



## **Telangana State Electricity Regulatory Commission**

**5<sup>th</sup>Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul,  
Hyderabad 500004.**

### **TARIFF ORDER**

#### **Retail Supply Tariffs for FY 2018-19**

In the supply areas of  
Southern Power Distribution Company of Telangana Limited (TSSPDCL)  
and  
Northern Power Distribution Company of Telangana Limited (TSNPDCL)

**27.03.2018**



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**TELANGANA STATE ELECTRICITY REGULATORY COMMISSION  
HYDERABAD**

**Present**

**Sri Ismail Ali Khan, Chairman  
Sri H. Srinivasulu, Member**

Dated: 27.03.2018

**O. P. No. 21 of 2017**

Southern Power Distribution Company of Telangana Limited (TSSPDCL)

**O. P. No. 22 of 2017**

Northern Power Distribution Company of Telangana Limited (TSNPDCL)

**... Applicants**

The Southern Power Distribution Company of Telangana Limited (TSSPDCL) and the Northern Power Distribution Company of Telangana Limited (TSNPDCL) filed Petitions under Section 64 of the Electricity Act, 2003, before the Telangana State Electricity Regulatory Commission (TSERC or the Commission) on 15.12.2017 for approval of Aggregate Revenue Requirement (ARR) for retail supply business for FY 2018-19. Subsequently, the tariff proposals for retail supply business were filed by TSSPDCL and TSNPDCL on 21.12.2017. The Petitions were admitted by the Commission and assigned O. P. Numbers 21 of 2017 and 22 of 2017, for TSSPDCL and TSNPDCL respectively.

The Commission, in exercise of its powers under the Electricity Act, 2003 and the Andhra Pradesh Electricity Regulatory Commission (Terms & Conditions for determination of tariff for Wheeling and Retail Sale of electricity) Regulation No. 4 of 2005, adopted by TSERC vide its Regulation No. 1 of 2014, and after considering Petitioners' averments in the filing submissions, suggestions and objections of the other stakeholders, responses of Licensees, to issues that are raised during the public hearing, and all other relevant material, passed the following common Order.

## ORDER

### 1 INTRODUCTION

#### 1.1 BACKGROUND

1.1.1 Telangana State Electricity Regulatory Commission (herein referred to as TSERC or Commission) was constituted by the Government of Telangana (GoTS) in terms of the provisions of Schedule XII (C) (3) of the A.P. Reorganisation Act of 2014, read with Section 82 of the Electricity Act, 2003 (Act, 2003) vide G.O.Ms.No.3, (Energy) (Budget) Department Dt:26.07.2014.

1.1.2 This Commission having been established u/s 82(1) of the Act, 2003 is required to exercise the powers and functions vested in it in terms of Section 86 and Section 62(1) of the Act, 2003 to determine the tariff for (1) supply of electricity by a generating company to a distribution licensee; (2) transmission of electricity; (3) wheeling of electricity; and (4) retail sale of electricity as the case may be within the state of Telangana.

1.1.3 The Commission issued Regulation, viz., Regulation No. 1 of 2014, on 10.12.2014 being Adoption of Previously Subsisting Regulations, Decisions, Directions or Orders, Licenses and Practice of Directions. Clause 2 of this regulation specifies as follows:

*“All regulations, decisions, directions or orders, all the licences and practice directions issued by the erstwhile Andhra Pradesh Electricity Regulatory Commission (Regulatory Commission for States of Andhra Pradesh and Telangana) as in existence as on the date of the constitution of the Telangana State Electricity Regulatory Commission and in force, shall mutatis-mutandis apply in relation to the stakeholders in electricity in the State of Telangana including the Commission and shall continue to have effect until duly altered, repealed or amended, any of Regulation by the Commission with effect from the date of notification as per Notification issued by the Government of Telangana in G.O.Ms.No.3 Energy(Budget) Department, dt.26-07-2014 constituting the Commission.”*

1.1.4 In accordance with the above regulations, all the regulations framed by the erstwhile Andhra Pradesh Electricity Regulatory Commission (APEREC) will continue to apply for the state of Telangana, till further modification.

1.1.5 In accordance with the provisions of Section 64 of the Act, it is incumbent upon the distribution licensees to make an application to the Commission to determine the tariff

in such manner and terms as may be specified by the regulations framed by the Commission.

- 1.1.6 The distribution licensees were to file their ARR and tariff proposals for FY 2018-19 on or before 30.11.2017, so as to make available to the Commission the statutory time of 120 days for determination of Tariff for FY 2018-19 commencing 01.04.2018. The Commission vide the Lr. No. S/R.O-1/4/R.O.1/D.No. 723 dated 05.12.2017 extended the delay in filing the ARR for FY 2018-19. The DISCOMs filed the ARR Petitions on 15.12.2017 and the Filings of Proposed Tariffs, Cross Subsidy Surcharge and Additional Surcharge for retail supply business for FY 2018-19 on 21.12.2017.

## **1.2 ADMISSION OF PETITIONS AND REGULATORY PROCESS**

- 1.2.1 The petitions for approval of ARR and tariff for retail supply business for FY 2018-19 submitted by the distribution licensees were scrutinised and found to be generally in order as required under the TSERC (Conduct of Business) Regulations, 2015 (Regulation No. 2 of 2015). The Commission admitted the filings and the same were taken on record by assigning the following Original Petition (O.P.) numbers:

- O.P. No. 21 of 2017 for TSSPDCL
- O.P. No. 22 of 2017 for TSNPDCL

- 1.2.2 Upon scrutiny of the ARR filings and tariff proposals submitted by the licensees, the Commission identified certain data gaps and directed the licensees to furnish additional information. As directed by the Commission, the licensees furnished additional information and placed the same on their respective websites.

- 1.2.3 The Licensees, were directed by the Commission, published for information of all stakeholders a notice in two English newspapers in English, two Telugu newspapers in Telugu and two Urdu newspapers in English on 28.12.2017. The notice was to inform the general public that the licensees have filed the ARR and tariff in respect of their retail supply business for FY 2018-19 before the Commission.

- 1.2.4 Overview of stakeholders' consultation process:

- 1.2.4.1 The filings have been made available by the licensees along with supporting material to the public at large including all stakeholders by placing them at the offices of the Chief General Manager and the Superintending Engineer, operation circles. The filings and supporting material were also hosted on the websites of the Commission as well as the licensees.

- 1.2.4.2 It was also notified in the public notice (Annexure - 11) that, objections / suggestions on the ARR filings and tariff proposals may be filed with the Licensee by 23.01.2018 with a copy marked to the Commission. In response to the public notice, a large number of objections / suggestions were received (Annexure - 2) by the Commission both in writing as well as oral during the public hearing.
- 1.2.4.3 The licensees were directed to give their response in writing to all the written objections received by 30.01.2018 by sending the same to the respective objector with a copy to the Commission before the scheduled date of public hearing by the concerned licensee. The replies were also to be posted on the websites of the licensees as well as that of the Commission.
- 1.2.4.4 The State Advisory Committee (SAC) meeting was conducted on 27.01.2018 to elicit views of members on the ARR and tariff proposals of the DISCOMs for FY 2018-19. The views of the members were duly considered while determining the retail supply tariffs for FY 2018-19.
- 1.2.4.5 The Commission has conducted the public hearings at one place in each licensee's area. The public hearings were held at Kamareddy on 08.02.2018 on the filings of TSNPDCL and at Hyderabad on 12.02.2018 on the filings of TSSPDCL. During the hearings, the licensees made a brief presentation on their respective filings and then the Commission heard the objectors desiring to be heard in person. At the hearings, apart from the registered objectors, the persons / organizations who had turned up at the venue directly were also heard and their objections / suggestions were also considered. At the end, as directed by the Commission, the respective licensees responded on the issues raised by the objectors during the hearing.
- 1.2.4.6 The authorised representative from the Energy Department on behalf of the Government of Telangana State has made a statement communicating the Government's commitment to provide necessary financial assistance to power sector and subsidy to the utilities in accordance with the provisions of Section 65 of the Act, 2003 on 12.02.2018.
- 1.2.4.7 The Commission places on record its deep appreciation for the awareness and public spirit exhibited in the form of objections / suggestions made both in writing as well as oral submissions on the licensees' proposals. While all the views and opinions expressed by the consumers / objectors may not have been specifically reflected in this order; the Commission has made every effort to address the spirit and essence of the objections / suggestions. It also attempted earnestly to respond to them wherever necessary the issues being germane to the determination of the ARR and the tariff.

### **1.3 DATA GAPS AND LICENSEE'S RESPONSES**

1.3.1 The following additional information/clarifications were sought from the petitioners / licensees by the Commission:

- Audited Accounts for FY 2016-17 along with the Supplementary Audit Report of Comptroller & Auditor General (CAG).
- Justification for variation in actual consumer category-wise sales for FY 2016-17 in comparison to the approved sales.
- Compliance to the directive of the Commission for projection of agricultural sales.
- Justification for the proposed quantum of new loads expected to be added in FY 2018-19.
- Supporting documents that detail the basis of sales projections for Lift Irrigation Schemes for FY 2018-19.
- Basis of energy availability projections source-wise for FY 2018-19.
- Basis of the projections of variable charges for thermal generating stations for FY 2018-19.
- Impact of UDAY Scheme on the Distribution and the Retail Supply Business of the Licensees.
- Details of backing down during the period April – December, 2017.
- Details of open access during the period April – December, 2017.

1.3.2 The Commission considered the information submitted by the licensees while analysing the ARR for retail supply businesses for FY 2018-19.

### **1.4 COMMUNICATION WITH THE GOVERNMENT OF TELANGANA STATE REGARDING SUBSIDY**

1.4.1 The Commission has sent a communication to GoTS vide the letter dated 28.02.2018 informing that the Commission after examining each component of the filings made by the licensees had determined the revenue deficit for both the DISCOMs as Rs. 5940.47 crore for FY 2018-19. In addition to the amount of Rs. 5940.47 crore, the Commission further informed the GoTS that if intends to continue the existing subsidy commitment of Rs. 2/unit for poultry farms, the additional subsidy amount of Rs. 32.71 crore over and above Rs. 5940.47 crore need to be provided by the GoTS.

1.4.2 In the letter to GoTS, the Commission has placed the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2018-19, which the licensees have to charge in the absence of an external subsidization u/s 65 of the Act, 2003 in order to recover the Commission

determined ARR. The Commission also prepared a Retail Supply Tariff Schedule (RSTS) for FY 2018-19 duly considering the following:

- i. If the RSTS is to be implemented, the licensees have to be compensated by the GoTS u/s 65 of the Act, 2003 to the extent of Rs. 5940.47 crore for FY 2018-19.
- ii. In case GoTS wishes to further reduce tariffs for any class of consumers in the RSTS, then the consequential subsidy shall have to be borne by the GoTS.

1.4.3 In response to the Commission's letter, the State Government vide the Letter no. 242/Budget.A2/2018-1 dated 24.03.2018 of the Special Chief Secretary to Government, issued directions u/s 108 of the Act, 2003 to maintain uniform retail supply tariffs for all the consumer categories across both the DISCOMs of the State for FY 2018-19 and communicated the subsidy to be provided by the State Government u/s 65 of the Act, 2003.

## 1.5 STRUCTURE OF THE ORDER

1.5.1 This Order is organised in eight chapters as detailed below:

**Chapter 1** provides the background and details of the quasi-judicial regulatory process undertaken by the Commission.

**Chapter 2** summarises the interaction with the stakeholders including issues raised by stakeholders, licensees' responses, and the Commission's views thereon.

**Chapter 3** discusses the petitioners' / licensees' submissions, Commission's analysis, scrutiny and conclusion on ARR for FY 2018-19.

**Chapter 4** discusses the petitioners' / licensees' submissions, Commission's analysis, scrutiny and conclusion on consumer category-wise Cost of Service for FY 2018-19.

**Chapter 5** discusses the petitioners' / licensees' submissions, Commission's analysis, scrutiny and conclusion on tariff design.

**Chapter 6** discusses the approved Retail Supply Tariff Schedule for FY 2018-19.

**Chapter 7** discusses the terms and conditions of tariff applicable to LT and HT consumers.

**Chapter 8** discusses the Commission's Directives.

## 2 STAKEHOLDER CONSULTATION

The stakeholders have filed several objections/ suggestions/ comments on the Petitions for determination of ARR and the retail supply tariffs for FY 2018-19. The licensees have filed replies on the objections/ suggestions/ comments received from the stakeholders. For the sake of clarity, the objections/ suggestions/ comments raised by the stakeholders and responses of the petitioners have been consolidated and summarised issue-wise.

The Commission has concluded all the objections/ suggestions/ comments of the stakeholders made in writing as well as during the course of Hearings and the responses to them by the licensees. In the subsequent Chapters of this Order, the Commission has kept in view the objections/ suggestions/ comments of the stakeholders and replies of the petitioner while determining the retail supply tariff for FY 2018-19.

### 2.1 CONSUMER CATEGORY WISE SALES FOR FY 2018-19

#### *Stakeholders' submissions*

- 2.1.1 The sales projections are based on trend method and end user method. It is observed that the trend method and end user method is leading to over estimation of electricity consumption and hence, the sales projections for FY 2018-19 need to be revised. The actual power procurement for FY 2016-17 was more than that approved by the Commission. The estimated power procurement for FY 2017-18 is slightly higher than that approved by the Commission largely due to the expected higher consumption of agriculture, while the metered sales are expected to be lower than that approved by the Commission. The overall sales growth projected for FY 2018-19 is higher than the sales growth for FY 2017-18. The HT sales need to be cautiously approved as materialisation of lower HT sales than projections would lead to increase in revenue deficit of the DISCOMs. The sales projections for Lift Irrigation Schemes need to be assessed considering the operational need and consumption dynamics.
- 2.1.2 The practice of supplying power to agriculture adequately and in time was in place over the years. In the absence of metering of agricultural pump sets, the basis in realistic determination of agricultural consumption would get further complicated. To add it this is the decision of GoTS to supply power to agriculture throughout the day. Considering the factors like extent of land, crops cultivated, duration of water requirement, availability of ground water, time required for replenishment of ground water, etc., small and marginal farmers do not require supply of power throughout the day. In order to avoid indiscriminate utilisation of 24 hours supply to agriculture, the supply hours for agricultural services may be decided in consultation with farmers.

- 2.1.3 The DISCOMs have submitted that the agricultural consumption has been estimated based on ISI methodology but have not substantiated the same with relevant data. To improve estimation of electricity consumption by agricultural pump sets, these services need to be geo tagged. Under the UDAY scheme, the DISCOMs were obliged to meter all DTRs including DTRs serving agricultural services by June, 2017. The DISCOMs may be directed to estimate the electricity consumption by the agricultural pump sets based on the reading of these meters. The stakeholder sought the progress of metering DTRs in the State.
- 2.1.4 From the actual sales data for FY 2016-17 and the revised estimated sales data for FY 2017-18, it is observed that the agricultural sales are being reported significantly higher than the corresponding sales approved by the Commission for those years. The Commission is requested to ensure that the estimates of the agricultural sales as submitted every year is representative of the actual sales.

***Replies of Licensees***

- 2.1.5 As regards the sales projections for FY 2018-19, the following factors have been considered while projecting the sales for FY 2018-19: (i) new industrial loads like Pharma City, Amazon Data Centre etc., (ii) new commercial loads in HMR, (iii) new lift irrigation schemes like Kaleshwaram, Regonda-Thotapally Reservoir, Udaya Samudram, (iv) new loads due to Mission Bhageeratha, (v) new loads in Railway Traction and HMR. As regards the sales projection for lift irrigation schemes, the projected requirement given by the irrigation department have been reduced by considering the physical progress of the schemes and sales are projected with 120 days of operation in a year with 16 hours per day of operation. Further the likely water inflows have been factored in and period of operation has been considered accordingly from mid-July to mid-October or August to October.
- 2.1.6 As regards the agricultural sales projection for FY 2018-19, as per the State Government Policy to supply 24 hours to agricultural services from 01.01.2018, the agricultural sales for FY 2018-19 has been projected considering the growth rates of 33.36% and 39.33% by SPDCL and NPDCL respectively. Further, the impact of reduction in burden on agricultural pump sets on account of LI schemes has been considered while projecting the agricultural sales for FY 2018-19. With the implementation of 24 hours power supply to agricultural services, the farmers can pump water at any time of the day and it is expected that they will judiciously pump water as per requirement resulting in lower consumption of electricity. The assessment of agricultural consumption of all rural circles is being done every month as per the ISI methodology approved by the Commission. The Commission has referred to Administrative Staff College of India (ASCI) to study any new methodology for

calculation of agricultural consumption. A joint meeting was conducted by the Commission with ASCI and DISCOMs on 22.08.2017 to chalk out a better method for calculation of the agricultural consumption. ASCI is going to conduct a statistical analysis on the crop pattern, geographic location and working for preparation of new methodology of estimation of agricultural consumption. This new methodology as and when approved by the Commission will be adopted by the DISCOMs.

- 2.1.7 As regards the stipulation in UDAY MoU for metering of all DTRs, UDAY MoU specifies an action plan regarding DTR metering in urban areas and there is no specification regarding the metering of all DTRs. Further, the metering of all the agricultural DTRs would not yield significant results.

#### ***Commission's Views***

- 2.1.8 The Commission has projected the consumer category wise sales for FY 2018-19 taking into consideration the actual sales recorded in the previous years and the anticipated load growth for some of the categories. The Commission's approach in approving the consumer category wise sales for FY 2018-19 has been elaborated in Chapter 3 of this Order.

## **2.2 ENERGY REQUIREMENT FOR FY 2018-19**

### ***Stakeholders' submissions***

- 2.2.1 SPDCL and NPDCL have projected the energy requirement of 42193 MU and 22098 MU respectively, totalling to 64291 MU. As per the Uday MoU, the energy requirement for FY 2018-19 is 61588 MU. The projected energy requirement seems inflated, notwithstanding the claims for additional requirement of power for agriculture, lift irrigation schemes, metro rail project, etc.
- 2.2.2 NPDCL submitted the T&D losses as 10.75% and 12.89% for FY 2017-18 and FY 2018-19 respectively. SPDCL submitted the T&D losses as 10.28% and 13.65% for FY 2017-18 and FY 2018-19 respectively. The losses are increasing on year-on-year basis. As per the UDAY MoU, the AT&C losses target has been specified as 10.00% and 9.90% for NPDCL and SPDCL respectively. The losses projected by the DISCOMs are higher than the targets specified in the UDAY MoU. The power purchase requirement shall come down if the T&D losses are reduced.

### ***Replies of Licensees***

- 2.2.3 As regards the variation in energy requirement figures for FY 2018-19 as per the UDAY MoU and the tariff filings, at the time of entering into UDAY agreement, 24 hours power supply to agriculture sector was not considered and new schemes like Mission Bhageeratha and new lift irrigation schemes have come up after UDAY

agreement which are considered in sales forecast for FY 2018-19 in the tariff filings. Hence there is an increase in energy requirement for FY 2018-19 in tariff filings when compared to that of in UDAY MoU.

- 2.2.4 As regards the loss levels considered for projecting the energy requirement for FY 2018-19, the voltage wise distribution losses and transmission losses as approved by the Commission have been considered for projecting the power purchase requirement.

***Commission's Views***

- 2.2.5 The Commission has approved the energy requirement for FY 2018-19 considering the approved sales, approved voltage wise distribution losses and the approved transmission losses. Further, the losses corresponding to the purchases from the sources situated outside the State have been considered based on the actual losses in FY 2017-18. The Commission's approach in approving the energy requirement for FY 2018-19 has been elaborated in Chapter 3 of this Order.

**2.3 ENERGY AVAILABILITY FOR FY 2018-19**

***Stakeholders' submissions***

- 2.3.1 As against the energy availability of 66073 MU projected for FY 2017-18, the energy availability for FY 2018-19 has been projected as 67573 MU which is only an increase of 1496 MU despite projecting substantial generation capacity addition during FY 2018-19.
- 2.3.2 From the thermal generation capacity of 4702 MW of TSGENCO, the energy availability has been projected as 18533 MU considering a PLF of 70%. The basis for considering the PLF of 70% only, when the coal supply from SCCL has increased to TSGENCO, need to be justified. CERC Regulations stipulate a normative PLF of 85% for fixed cost recovery as against which, TSGENCO stations are proposed to be operated at 70% PLF. The Commission may ensure this to save consumers from levy of higher fixed costs.
- 2.3.3 Further, the DISCOMs submitted that the entire coal requirement for TSGENCO is being met from SCCL and the entire generation of TSGENCO is purchased by them. Considering the PLF of 80% of thermal generation capacity of TSGENCO, the DISCOMs would get additional energy of 14422 MU. The DISCOMs should submit the reasons for projecting lower availability from TSGENCO and whether the fixed charges for the backed down capacity of TSGENCO stations will be paid by them.
- 2.3.4 The DISCOMs have not projected the energy availability from gas based IPPs with a total capacity of 1499 MW citing non-availability of gas for those stations.

Considering the PLF of 80% for those stations, the DISCOMs would get additional energy of 5669 MU corresponding to TS share of 53.89%.

- 2.3.5 The DISCOMs have projected the energy availability of 7878.34 MU from non-conventional energy sources which is to the tune of 14.14% of the projected sales which is higher than the minimum requirement of 5%. Entering into long-term PPAs for purchasing from non-conventional energy sources at higher tariffs is unwarranted.
- 2.3.6 As against the energy availability of 1120.90 MU from NTPC Simhadri Stage II, only 828.24 MU will be dispatched implying surplus of 292 MU.
- 2.3.7 The DISCOMs submitted that although the energy from Machkund and Tungabhadra has been projected for FY 2018-19, there was no scheduling to Telangana State from these Stations since June, 2017. The legitimate share of Telangana State need to be restored.
- 2.3.8 The DISCOMs have not made any submissions regarding the financial burden of surplus power.
- 2.3.9 The PPAs for KTPS VII, Bhadradri TPS, Priyadarsini Jurala and Pulichintala are yet to be approved by the Commission. The power from KTPS VII and Bhadradri TPS should not be scheduled prior to the approval of PPAs. The availability of power from TPCIL should be considered at 85% PLF as against 90% PLF considered by the DISCOMs as surplus energy is already available and incentive need to be paid for supply above 85% PLF.
- 2.3.10 The energy from bilateral/power exchange should not be allowed to be given to the power surplus situation and over estimation of energy requirement.
- 2.3.11 ONGC has started production of natural gas from K. G. Basin and offered to supply the same to GMR Vemagiri Power Generation Ltd. (GVPGL) and accordingly, agreement was signed with GAIL and shared with the DISCOMs. GoI, vide its notification dated 21.03.2016 notified the marketing including the pricing freedom to producers for the gas to be produced from Discoveries in Deep Water, ultra-Deep Water and High Pressure & High Temperature areas subject to a ceiling price regulated by GoI. Further, MoPNG vide its letter dated 12.05.2017 to GVPGL also clarified that no allocation of gas from the fields of ONGC (S-1 & VA) is warranted in line with the GoI notification dated 21.03.2016.

2.3.12 As per the PPA with GVPGL, there is no restriction on cost of gas nor source of gas. The PPA stipulates that the cost of gas is pass through and accordingly to be borne by the DISCOMs. As such GVPGL is declaring plant availability to the DISCOMs with natural gas supplied by GAIL in compliance with the terms of the PPA. Accordingly, invoices are being submitted claiming fixed charges under the provisions of the PPA. The Commission shall take note of the above in finalisation of ARR as the DISCOMs are frustrating the terms of the PPA and creating a financial liability in their books which in due course of time will reflect in the tariff affecting public at large. Instead of purchasing power under short-term/bilateral from the market, the DISCOMs should consider the availability declarations of GVPGL to avoid future fixed cost payment obligations.

***Replies of Licensees***

2.3.13 As regards no significant increase in energy availability projections, as the new generating stations KTPS VII (800 MW) and BTPS Unit 1 (270 MW) are expected to be commissioned in October 2018 and January 2019 respectively, there is no significant increase in the energy availability projections.

2.3.14 As regards the PLF of 70% for thermal generating stations of TSGENCO, 24 hours supply to agriculture would result in high demand during the day time and low demand during the night time. Across India, the PLFs of thermal power plants have seen a drop due to increased penetration of renewables in the grid. The installed capacity of solar power in Telangana is amongst the highest in the country, further the 24 hours a day supply to agricultural consumers could lead to increased usage of power during day time. These factors could lead to drop in the actual despatch of power from the normative levels. Due to low loads in night time, PLF (based on actual dispatch) will be lower than 80%. DISCOMs have projected 70% PLF (not MW availability) for running MOD at month level. However, payments to the generator are being done based on actual availability during the year.

2.3.15 As regards the non-consideration of energy availability from gas based IPPs, the gas based IPPs have not been scheduling power to TSDISCOMs. In view of this, the DISCOMs have not considered any energy availability from gas based IPPs.

2.3.16 As regards the energy availability from Machkund and Tungabhadra, APGENCO has given final regulation scheme with effect from 00:00 hours of 11.06.2017 for regulating the power supply (100% TSDISCOMs share) from APGENCO stations including Machkund and Tungabhadra stating that dues were not settled by TSDISCOMs.

- 2.3.17 As regards the PPAs for power purchase from KTPS VII and BTPS, the power from these stations would be required to meet the growing energy requirements of the State. The DISCOMs would enter into PPAs for power purchase from these stations based on due approvals from the Commission. As regards the PPAs for power purchase from Priyadarsini Jurala and Pulichintala, the DISCOMs have executed the PPAs with TSGENCO for these stations on 22.12.2009 and 30.12.2010 respectively. The Commission in its MYT Order for TSGENCO for the 3<sup>rd</sup> Control Period from FY 2014-15 to FY 2018-19 had approved the fixed charges for these hydel stations after due regulatory process.
- 2.3.18 As regards the PLF considered for TPCIL, the variable charges for TPCIL being on lower side, the energy availability has been projected considering the PLF of 90% to take advantage of the lower variable charges.
- 2.3.19 As regards the energy from bilateral/power exchange, the projected energy requirement in the month of August, 2018 is more than the energy availability from all the contracted sources resulting in a marginal shortfall of 383.46 MU. This shortfall has been proposed to be met through bilateral/power exchange. The DISCOMs in the past have floated tenders for procurement of power for meeting the peak requirements for a few hours in a day. Such tenders did not evince interest from the prospective bidders due to limited hours of supply in a day. Subsequently, the DISCOMs had to float tenders for procurement of power on round the clock basis. Such contracted power is being procured for meeting the peak requirements during the day and is being backed down during the rest of the period.
- 2.3.20 As regards the energy availability from GVPGL, as per the amendment to the PPA with GVPGL for 370 MW dated 02.05.2007, fuel means Natural Gas only. For this project, gas allocation was made by the then Government of India from RIL KG-D6 fields under Administered Pricing Mechanism (APM). Due to reduced production levels of KG-D6 wells, this project and other gas based IPPs had stopped generation since 01.03.2013 and the IPPs filed cases claiming compensation which are pending in various courts. Post bifurcation of Andhra Pradesh, TSDISCOMs, were allocated 53.89% share in the project capacity. Recently, GVPGL started declaring plant availability with ONGC deep water wells, whose gas pricing is based on market dynamics while the PPA is based on APM gas. Due to this, cost of generation from GVPGL would be costlier. Hence, both the APDISCOMs and TSDISCOMs rejected the plant availability declarations given by GVPGL.

***Commission's Views***

- 2.3.21 The Commission has considered the energy availability from various contracted long-

term sources of power considering the actual generation in the past and the projected generation for FY 2018-19. The Licensees should meet the peak requirement in terms of demand (MW) and energy requirement (MU). The Licensees should contract for adequate generation capacity through an optimal mix of long-term, medium-term and short-term sources, to meet the peak demand as well as the peak energy requirement. Further, the surplus energy available as projected may vary based on the actual consumption pattern and actual availability of power from different contracted sources. From the information submitted by the DISCOMs, the Commission observed that the DISCOMs had undertaken sale of surplus power in the open market during FY 2017-18. Hence, the Commission has considered the revenue from sale of surplus power during FY 2018-19 and adjusted the same from the total power purchase cost of the DISCOMs.

## **2.4 RENEWABLE POWER PURCHASE OBLIGATION (RPPO)**

### ***Stakeholders' submissions***

- 2.4.1 The power purchases of DISCOMs from non-conventional energy (NCE) sources is higher than the RPPO of 5%. The interpretation that RPPO stipulates only a minimum percentage to be purchased from NCE sources and the DISCOMs can purchase to any extent, irrespective of requirement and availability of power from other sources under binding obligations of the PPAs defeats the very spirit of the Electricity Act, 2003, the objectives of ensuring orderly development of power sector and ensuring competitive and reasonable tariffs to the consumers.
- 2.4.2 The generation from NCE sources, being inconsistent, could not be adequate for meeting the peak load requirements and the DISCOMs need to rely on other stations for meeting the requirement during non-generation from NCE sources. As the NCE sources are treated must run plants, the DISCOMs are compelled to purchase the entire power generated by them, at higher tariffs, even by backing down the substantial surplus power available at lower tariffs from other sources. This imposes dual burden on the consumers in the form of higher tariffs of NCE sources and the payment of fixed charges for the backed down capacity.
- 2.4.3 The contention regarding the non-requirement of the approval of the Commission for the PPAs of the DISCOMs with NCE developers defeats the very purpose of the regulatory process. It is imprudent to enter into PPAs for purchase from NCE sources to purchase unwarranted power when adequate power is available from PPAs with the existing and ongoing thermal projects, with obligation of the DISCOMs to purchase from those projects.

**Replies of Licensees**

- 2.4.4 In accordance with Regulation No. 1 of 2012, the DISCOM shall purchase from NCE sources a quantum not less than 5% of its consumption of energy, during each of the years from FY 2012-13 to FY 2016-17. The actual purchases from NCE sources during FY 2014-15, FY 2015-16 and FY 2016-17 were to the tune of 0.24%, 0.62% and 3.53% respectively for SPDCL and 1.84%, 2.23% and 1.92% respectively for NPDCL, of the total consumption of the respective DISCOM. Hence, the DISCOMs are not meeting their RPPO of 5%. To fulfil the RPPO, the DISCOMs conducted a transparent competitive bidding and the PPAs were signed after obtaining the approval of the Commission.
- 2.4.5 The price of power depends on numerous generation sources and is not limited to NCE sources. It is the endeavour of the DISCOMs to reduce the power purchase cost through optimal contracting structures. This would enable the DISCOMs in selling surplus power, if any.
- 2.4.6 Generation from NCE sources especially solar and wind is dependent on climatic conditions. However, it is a well-accepted fact that this challenge has to be addressed through grid integration measures which enable conventional coal-based plants to respond to power generation and backing down requirements in a swift manner. As the PPAs executed with the NCE developers contained the provision of must run status to such generating stations and to fulfil the RPPO, there is no other option except to back down thermal stations based on merit order principles and payment of fixed charges. These are in line with prudent grid management practices.
- 2.4.7 The power generation from NCE sources, particularly solar is during day time and such generation can be utilised for meeting the agricultural demand. In the event of non-availability of power from solar generation, the demand can be met from the other long-term sources like thermal, hydel etc.

**Commission's Views**

- 2.4.8 The Commission u/s 61(g) & 86(1)(e) of the Act has the responsibility to encourage the purchase of energy from NCE sources. Hence, it is mandatory to encourage renewable sources of energy and the same must be procured. Further, the renewable sources of energy reduce the emission of greenhouse gases which in-turn reduces the global warming.
- 2.4.9 RPPO is specified as the minimum quantum of electricity to be purchased from renewable energy sources and is expressed as a percentage of the total purchase of energy by the Licensee. The Commission vide its press release dated 18.01.2018 has

issued the Draft RPPO Regulations for public consultation. Vide the said Draft Regulations, the Commission has stipulated RPPO of 6% for FY 2018-19. The Commission has projected the energy availability from NCE sources for FY 2018-19 considering the existing installed capacity and the likely capacity to be commissioned by March, 2018. Based on the projected energy availability from NCE sources for FY 2018-19, the estimated purchases from NCE sources is around 9% of the total power purchase quantum.

- 2.4.10 The new solar projects in the State have been awarded pursuant to the competitive bidding conducted by the Licensees. The PPAs for purchase of power from solar developers selected pursuant to the competitive bidding processes should be based on the model PPA approved by the Commission. Further, the Licensees are required to submit the PPAs executed with the solar developers to the Commission for consent under Section 21(4) of the Reform Act read with Section 86(1)(b) of the Act, 2003.

## **2.5 POWER PURCHASE COST FOR FY 2018-19**

### ***Stakeholders' submissions***

- 2.5.1 The tariffs to be paid by the DISCOMs to NCE sources are Rs. 5.76/kWh for solar power and Rs. 4.70/kWh for wind power. These tariffs are higher than the tariffs discovered through competitive bidding in the recent times elsewhere in the country. In case of NCE projects which have been delayed, the DISCOMs continue to pay older and higher tariffs without tariff reduction on account of the falling prices of wind turbines and solar panels in the market.
- 2.5.2 The DISCOMs have considered escalation on variable charges of thermal generating stations considered by the Commission in the Tariff Order for FY 2017-18. The DISCOMs have not provided the justification for this escalation in variable charges. As the DISCOMs can claim the increase in variable charges for FY 2018-19, if any, during the truing up, the escalation on variable charges as considered by the DISCOMs should not be allowed.
- 2.5.3 In light of the discontinuance of the inter-state sharing of power between Andhra Pradesh and Telangana, the stakeholder sought details regarding the savings in power purchase cost of the DISCOMs.
- 2.5.4 The higher estimate of energy requirement of 2700 MU by the DISCOMs in comparison to the UDAY MoU entails an additional power purchase cost of Rs. 1171 crore at the average cost of Rs. 4.34/kWh.

- 2.5.5 The fixed cost of power purchase under the PPA with CSPDCL is Rs. 1.87 Crore/MW in comparison to the Rs. 1.26 Crore/MW of SCCL TPP. Besides this, the inter-state transmission losses of 3.2% are also to be considered. The DISCOMs may be directed to relook the power purchase under the PPA with CSPDCL due to its high cost.
- 2.5.6 The variable cost of TSGENCO thermal generating stations is in the range of Rs. 2.21/kWh to Rs. 2.70/kWh. In comparison to the same, the variable cost of power purchase under the CSPDCL PPA is Rs. 1.20/kWh. As majority of the TSGENCO thermal generating stations are located near to coal mines, the variable cost of those stations should be lower than that quoted by them. The variable cost of TSGENCO thermal generating stations need to be scrutinised.
- 2.5.7 The DISCOMs have projected the fixed cost of power purchase as Rs. 10942 crore amounting to 39% of the total power purchase cost for FY 2018-19. Since the fixed costs of power purchase are treated as demand related expenses and the variable costs of power purchase are treated as energy related expenses, it would be prudent for DISCOMs to inform the fixed cost payments and provide the basis for the fixed cost projections for FY 2018-19.
- 2.5.8 The DISCOMs need to clarify whether the DISCOMs are paying fixed charges for the surplus power which is backed down. Generally, fixed cost payments to power producers that are being backed down are as high as 15% to 35%.
- 2.5.9 The Power Purchase Agreements of the DISCOMs may be reviewed and if legally tenable, the negotiation of tariffs for downward revision may be explored.

***Replies of Licensees***

- 2.5.10 As regards the tariffs payable to NCE developers, the tariffs payable under such PPAs were the then prevailing lowest tariffs discovered at the time of competitive bidding for solar. For wind projects, the tariff is as determined by the Commission from time to time. Currently, SPDCL has only one PPA for wind power with M/s Mytrah Vayu (Godavari) Pvt. Ltd. for a capacity of 100.8 MW. In view of the competitive bidding guidelines issued by MNRE for procurement of wind power and the subsequent competitive bidding held for wind power procurement elsewhere in the country, the price of wind power has dropped significantly from the regulated prices. The DISCOMs will evaluate procurement of wind power on need basis and after taking necessary grid integration measures. Due to maturity of technology, globally decline in solar power prices is being observed. Prices in India are also reflective of the same trend.

- 2.5.11 As regards the Variable Charges of TSGENCO stations, the DISCOMs have considered the actual Variable Charges in H1 of FY 2017-18 and the projected Variable Charges as given by generators. In many instances, the actual cost was exceeding the approved values by more than 10%. However, with a view of not imposing additional burden due to higher power purchase cost, the DISCOMs have limited the escalation on Variable Charges to 10% of the approved value.
- 2.5.12 As regards the savings due to discontinuance of the inter-state sharing of power with Andhra Pradesh, the energy availability has improved marginally by 30 MU. Although APGENCO has been raising bills even after 11.06.2017, the DISCOMs have not paid and returned those bills.
- 2.5.13 As regards the variable charges of TSGENCO stations, as per Clause 13.1(b) & (c) of Regulation No. 1 of 2008, the actual landed cost of fuel shall be inclusive of fuel price corresponding to the grade/quality of fuel, royalty, taxes and duties as applicable, transportation cost by rail/ road/ pipeline or any other means, and, for the purpose of calculation of energy charges, shall be arrived at after considering transit losses. The landed cost of fuel in respect of TSGENCO stations is being arrived on the following: (a) coal is being procured from M/s SCCL, a Govt. entity, and its cost is being paid as per the price notifications of M/s SCCL, (b) oil is being procured from central public-sector undertakings viz. HPCL, IOCL & BPCL and the oil rates being paid prevailing on the date of supply, (c) the transportation charges of the fuel by rail are as per the rate circular issued by Ministry of Railways. The variable cost of the TSGENCO stations are arrived at by considering the norms specified by the Commission and the above fuel parameters.
- 2.5.14 As regards the fixed cost of power purchase under the PPA with CSPDCL, the fixed cost considered is as per the Tariff Order issued by the Chhattisgarh State Electricity Regulatory Commission.

#### ***Commission's Views***

- 2.5.15 The Commission has approved the power purchase cost for FY 2018-19 based on the approved quantum and applicable tariffs for the respective generating stations. The Commission's approach for approving the power purchase cost for FY 2018-19 has been elaborated in Chapter 3 of this Order.

## **2.6 COST OF SERVICE FOR FY 2018-19**

### ***Stakeholders' submissions***

- 2.6.1 SPDCL and NPDCL have projected the cost of service for agriculture category as Rs.

6.58/kWh and Rs. 6.39/kWh respectively. The expenditure incurred by the DISCOMs for strengthening and expanding the distribution system for ensuring supply of power to agriculture throughout the day has to be taken into account for computing the cost of service for agriculture category.

#### ***Replies of Licensees***

2.6.2 The DISCOMs have not submitted any reply.

#### ***Commission's Views***

2.6.3 The Commission has adopted the embedded cost methodology to determine the category wise CoS for each category. According to this methodology, all the cost components of the ARR as determined by the Commission for SPDCL and NPDCL have been allocated to the existing consumer categories to determine their respective CoS. Such ARR considered for SPDCL and NPDCL is inclusive of the wheeling tariffs approved by the Commission for FY 2018-19 vide its Order dated 27.03.2015 considering the approved capital expenditure for the corresponding year.

## **2.7 CONSUMER CATEGORISATION**

#### ***Stakeholders' submissions***

2.7.1 **Electricity connection for construction of residences:** During the construction period of houses by the common public, they are required to apply under LT II category and after the completion of construction activity and moving in of the occupants, the category is being converted to LT I. Release of connection for construction activity under commercial category may be considered only for construction activities carried out by developers and contractors engaged in real estate business. The Commission may direct to release the electricity connection during construction of houses by common public under LT I category.

2.7.2 **Separate category for grocery shops in residential premises:** The grocery shops being operated alongside the residential premises are required to take two service connections. A separate consumer category may be created for grocery shops, particularly in rural areas, so that two service connections need not be required.

2.7.3 In the Retail Supply Tariff Order for FY 2017-18, the Commission had approved the inclusion of poly-houses and green-houses in LT V category. These consumers should be metered and the number of consumers, connected load and consumption by those consumers should be reported separately in the tariff filings.

2.7.4 The telephone exchanges/ admin buildings of Bharat Sanchar Nigam Limited (BSNL) are classified under LT II(B) (Non-Domestic/Commercial) and HT II (Others)

categories for LT and HT service connections respectively. BSNL is a Public Limited Company, fully owned by the Government of India (GoI) by the corporatisation of the erstwhile Department of Telecom Services, which is an industry under the Industrial Disputes Act 1947. The telephone exchanges of BSNL are categorised along with the high-end consumer groups such as business houses, hotels, clubs, theatres etc. The business nature of BSNL is serving the nation, which is entirely different from the above mentioned high end group. Hence, BSNL may be given the Industrial classification in the electricity tariff, as per the Amendment of Finance Act, 2002 and LT III and HT I(A) tariffs may be made applicable for LT and HT service connections respectively.

- 2.7.5 Hindustan Petroleum Corporation Limited (HPCL) is in the business of refining and supply of petroleum products which are classified as essential commodity under the Essential Commodities Act, 1955. In the course of the said business, it has established a Petroleum Product Terminal at Ghatkesar, Ranga Reddy District for the purpose of manufacture, storage and distribution of (i) High Speed Diesel, (ii) Motor Spirit, (iii) Gashol, (iv) B5 Diesel and Kersone. It has also established a State of Art Effluent Treatment Plant in the Unit. The said Unit caters to the need of nine Districts namely Hyderabad, Ranga Reddy, Mahabubnagar, Adilabad, Nalgonda, Medak, Kurnool, Nizamabad and Karimnagar. The said Unit also supplies said products to other Public-Sector Oil Companies and they in turn market the same. The electricity is consumed for the process of (i) pumping or boosting the pumping of petroleum products, (ii) tapping or drawing them from the pipe line, (iii) adding or blending, (iv) doping, (v) storing and (vi) packing them in special containers or vessels and then sold in whole sale.
- 2.7.6 The electricity connection was released for the said HPCL Unit by the erstwhile APCPDCL in the year 2002 under HT I category. Subsequently, the categorisation was changed to HT II and differential amount was claimed by the DISCOM from the year 2002. The disputes arisen from this change of categorisation was represented before the Hon'ble High Court in W. P. No. 14980 of 2007 and the Hon'ble High Court vide Order dated 02.05.2008 allowed the said Writ Petition and declared that the classification of power connection of HPCL from HT I category to HT II category as illegal. Despite the directions of the Hon'ble High Court vide its Order dated 02.05.2008, the billing was carried out under HT II category. Aggrieved by the same, HPCL filed the W. P. No. 31311 of 2011 and W. P. No. 3984 of 2017 before the Hon'ble High Court.
- 2.7.7 The DISCOMs, in their tariff filings for FY 2017-18 did not disclose the above said

proceedings before the Hon'ble High Court. The provision in the Tariff Order for FY 2017-18 wherein it was ruled that the HT I category is not applicable to gas/oil storage/transfer stations is not appropriate and valid. The activity of the above said Unit of HPCL and various other gas/ oil storage/ transfer stations in the Telangana State squarely falls within each of all the expressions used for the applicability of HT I category namely, Industry, Process, Process and Preserving, Preserving for Sale and also Manufacturing. Hence, the activity of the said Unit falls in HT I category and it is not merely a gas/ oil storage/ transfer station. The HT II category is for such consumers who are non-industrial in nature and when the said Unit of HPCL is an industry, it cannot be placed under HT II category.

2.7.8 In view of the above, it is requested to (i) declare that HT I category is applicable to gas/ oil storage/ transfer stations operated by HPCL in the Telangana Sate, and (ii) direct the DISCOMs to adjust the excess amounts already paid by HPCL under HT II in the future bills.

2.7.9 The micro and small industrial units whose power requirement is less than 100 HP/75 kVA are sanctioned power as per their requisition and are billed as per LT tariff. Any excess demand over and above the sanctioned load in a month are being penalised with 2 times the normal tariff. There are several small-scale units who install standby equipment for use in case of breakdown of existing equipment. Further, the equipment used for executing on-site works are stored at factory premises. During inspections by the officials of the DISCOMs, the connected load is being arrived at considering such idle equipment also and penalties are being imposed and such consumers are asked to switch to higher category. This practice should be discontinued and penalties should not be imposed on the small scale industrial units as long as they consume power within the sanctioned limits. The consumers should be asked to switch to higher category only when the consumption of those consumers reach to the level of next higher category. Restricting an industrial unit on connected load is not proper and detrimental to small scale industries.

#### ***Replies of Licensees***

2.7.10 **Electricity connection for construction of residences:** The service connection for residences constructed by individuals are being issued under LT I category.

2.7.11 **Consumer category of BSNL:** The categorisation of activity is based on the definitions and terms and conditions as stipulated in the Tariff Order. In accordance with the Tariff Order, the HT I category is applicable for supply to all HT consumers using electricity for industrial purpose. Industrial purpose shall mean manufacturing, processing and/or persevering goods for sale etc. As there is no manufacturing activity

involved in the telephone exchanges, it cannot be categorised under HT I/ LT III.

- 2.7.12 As regards the stakeholders' recommendation to meter the consumption by poly-houses and green-houses in LT V category, the same is noted.
- 2.7.13 As regards the categorisation of telephone exchanges and administrative buildings of BSNL, HT I category is applicable for supply to HT consumers consuming electricity for industrial purpose, which is defined in the Tariff Order as manufacturing, processing and/or preserving goods for sale etc. As there is no manufacturing activity involved in telephone exchange services, it cannot be categorised under HT I/LT III.
- 2.7.14 As regards the categorisation of gas/ oil storage/ transfer stations operated by HPCL, HT I category is applicable for supply to HT consumers consuming electricity for industrial purpose, which is defined in the Tariff Order as manufacturing, processing and/or preserving goods for sale etc. As there is no manufacturing activity involved in gas/ oil storage/ transfer stations operated by HPCL, it cannot be categorised under HT I. Further, the gas/ oil storage/ transfer stations operated by HPCL are billed under HT II category in accordance with the Tariff Order for FY 2017-18.

***Commission's Views***

- 2.7.15 **Electricity connection for construction of residences:** The Commission has taken note of the reply of the Licensees.
- 2.7.16 **Separate category for grocery shops in residential premises:** It has always been the endeavour of the Commission to reduce the number of consumer categories towards the tariff rationalisation and simplification measure, for ease and convenience. The creation of separate category as sought by the stakeholder is unwarranted.
- 2.7.17 As regards the categorisation of telephone exchanges and administrative buildings of BSNL, the Commission finds the response of the Licensees in order.
- 2.7.18 As regards the categorisation of gas/ oil storage/ transfer stations operated by HPCL, as per the Tariff Order for FY 2017-18, the same are to be billed under HT II category.
- 2.7.19 As regards the request of the stakeholders not to impose penalties on the small scale industrial units as long as they consume power within the sanctioned limits and not to consider the idle equipment in the premises for arriving at the connected load, the Commission does not find merit in the request of the stakeholders as it will lead to grid indiscipline.

## **2.8 TARIFF PROPOSALS FOR FY 2018-19**

### ***Stakeholders' submissions***

- 2.8.1 The DISCOMs have proposed the same tariffs as approved by the Commission in the Tariff Order for FY 2017-18, for FY 2018-19 also. The Commission may consider upward revision of some of the categories for FY 2018-19 to avoid tariff shock in the following years.
- 2.8.2 The tariff of Rs. 1.45/kWh for the first slab of 0-50 units under LT I(A) category may be extended to the next slab of 51-100 units also as the average consumption has increased.

### ***Replies of Licensees***

- 2.8.3 The DISCOMs have proposed the same tariffs as approved by the Commission in the Tariff Order for FY 2017-18, for FY 2018-19 also.

### ***Commission's Views***

- 2.8.4 The Commission after examining the cost, revenue and cross subsidy for each consumer category and considering the Reference Tariff Schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2018-19 which the Licensees will have to charge in the absence of any external subsidy u/s 65 of the Act in order to generate the revenue required to meet the approved cost. Considering the subsidy commitment of GoTS u/s 65 of the Act, the Retail Supply Tariffs for FY 2018-19 have been determined.

## **2.9 TARIFF FOR LT IV CATEGORY**

### ***Stakeholders' submissions***

- 2.9.1 The name of the LT IV category should be changed to MSME.
- 2.9.2 The load limit to the LT IV category may be enhanced to 15 kW in place of existing 10 HP as the usage of modern equipment with higher power rating has increased. The tariff of LT IV category may be approved as Rs. 1.80/kWh.

### ***Replies of Licensees***

- 2.9.3 A company falls under the definition of MSME sector based on the turnover of that company and not based on power consumption and hence the request of the stakeholder to change the name of the category is not agreeable.
- 2.9.4 The load limit to LT IV category was enhanced from 5 HP to 10 HP in the Tariff Order for FY 2013-14. Further enhancement of the load limit may result in the movement of the consumers to the next higher category and this category becoming redundant.

***Commission's Views***

- 2.9.5 The request of the stakeholder to change the name of LT IV category to MSME is not acceptable as MSME covers wide range of industries as opposed to consumer categorisation based on the power demand, in the Tariff Order of the Commission.
- 2.9.6 As regards the load limit enhancement, the Commission has taken note of the replies of the Licensees and finds merit in the submission of the Licensees. Hence, the Commission does not find it prudent to enhance the load limit as sought by the stakeholders.
- 2.9.7 Categories of consumers can be limited to the power exercised under Section 62 of the Act, 2003 only and not expand such categorization.

**2.10 TARIFF FOR DRINKING WATER PLANTS SET UP BY BALAVIKASA**

***Stakeholders' submissions***

- 2.10.1 Water treatment plants based on Reverse Osmosis have been set up in 800 villages, with 20% contribution from villagers and 80% grant from Balavikasa for supplying drinking water at affordable rates to all sections of the public. These water treatment plants are being operated by the committees formed by the contributors to such water treatment plants. The financial viability of such water treatment plants is jeopardised on account of the electricity charges. The drinking water treatment plants of Balavikasa may be exempted from payment of electricity charges or provided electricity at subsidised tariffs.

***Replies of Licensees***

- 2.10.2 The DISCOMs have not submitted any reply.

***Commission's Views***

- 2.10.3 The subsidised tariff can be considered by the Commission only when the consequential additional subsidy commitment is provided by GoTS. However, as at present as no commitment is made by the government, hence, the issue may be represented by the stakeholder to appropriate authorities in the State Government for subvention directly to the DISCOMs.

**2.11 TARIFF FOR HT I(A) (OPTIONAL) CATEGORY**

***Stakeholders' submissions***

- 2.11.1 The Commission vide its Tariff Order for FY 2016-17 had created the HT I(A) (Optional) category as a sub-category under HT I(A) with lower demand charges and energy charges. However, the benefit provided under this category is being withdrawn when the industries exceed the demand above 150 kVA for two consecutive months in a financial year and being billed under HT I(A) category. As most of the rice mills

were set up long back, any technical issues with motors and other electrical appliances may result in low power factor and increased consumption beyond the Contracted Demand. The Commission may direct that the benefit under HT I(A) optional category may be extended to the consumers if such consumers do not exceed 150 kVA demand for 4 consecutive months in a year in place of the existing 2 months duration. Else, the Commission may consider to increase the permissible demand upto 200 kVA in place of the existing 150 kVA for this category.

- 2.11.2 The disproportionately high Demand Charges have adversely affected the SMEs, mainly those operating on single shifts or low load factors. Given the financial distress in the manufacturing sector, they should be rolled back to promote ease of doing business. The premise of transferring the fixed costs of generators/ DISCOMs to consumers in to-to is misplaced as business models vary with different operating conditions of individual businesses. The Commission may consider determining a separate concessional tariff for SMEs with the choice to choose the regular tariff or the SME tariff.
- 2.11.3 The difference in tariffs of 132 kV and 33 kV consumers is significantly high when compared to other States like Gujarat, Madhya Pradesh, Chhattisgarh, Karnataka etc. Hence, to facilitate the growth of consumption at 33 kV level in the present context of need for increased industrial consumption levels, this has to be modified and parity maintained.
- 2.11.4 The MSME sector in the State is spread into General Engineering, Plastics, Mining Equipment, Steel, Forgings, Heat Treatment, Packaging, Machine Tool etc. which are power oriented sectors. Most of these Units require power upto 250 kVA and the existing category of HT I(A) (Optional) category may be extended from 150 kVA to 250 kVA for facilitation of conversion of such Units from alternate fuel utilisation to total power utilisation. The current two-part tariff may be dispensed with and the actual consumption-based billing may be introduced for early restoration of operations of the units from partial or total shutdown in case of unfavourable conditions to the industry.
- 2.11.5 The MSME sector mostly operates from 6 A.M. to 6 P.M. during the day. As the DISCOMs are geared up for 24 hours power supply to all the consumers in the State, time of day tariff may be dispensed with as different tariffs during different times of the day is not logical.

***Replies of Licensees***

- 2.11.6 The Commission vide its Tariff Order for FY 2016-17 had created the HT I(A)

(Optional) category as a sub-category under HT I(A) with lower demand charges and energy charges. Further, the Commission has given clarification on conversion of HT I(A) (Optional) to HT I and levy of penalty for exceeding CMD if any consumer who is availing supply under HT I(A) (Optional) category exceeding CMD in 2 billing cycles in the consecutive months or if the consumer exceeds CMD in any 3 billing cycles in a financial year. The limitation of 2 billing cycles for exceeding CMD over 150 kVA will bring discipline among the consumers and ensure that it will not be mis utilised.

- 2.11.7 The creation of optional category under HT I(A) is primarily to meet the requirements of the small and medium enterprises with lower demand charges compared to HT I(A) category. Further creation of sub-categories will lead to more complex tariff structure which is differing to the tariff simplification principles as proposed by the Committee on simplification of tariff constituted by MoP, GoI.
- 2.11.8 As regards the comparison of tariffs with other States, it is observed that even though the variation in tariffs at different voltages in Madhya Pradesh and Karnataka is more than that in Telangana, the tariffs at 132 kV level is almost same in three states. Further it is also to be observed that the tariffs at 11 kV and 33 kV voltage levels in those States is very much higher than those in Telangana as the difference in tariffs are smaller when compared to 132 kV level tariffs. The tariffs in a State will depend on its socio-economic factors, prioritisations policies, etc. The tariffs in one State cannot be compared with the tariffs in other State.

#### ***Commission's Views***

- 2.11.9 In the Tariff Order for FY 2016-17, based on the representations of the stakeholders, the Commission had introduced a sub-category with contract maximum demand up to 150 kVA under HT-1(A) category at 11 kV voltage only and made it an Optional category. The consumers who qualify under this category are at liberty to opt to remain under HT-1(A) or choose the Optional sub-category. The request of the stakeholders is not acceptable. This is made as a special dispensation, therefore, cannot be made to extend to a larger period. The period granted is deviation from the normal condition.
- 2.11.10 As regards the stakeholder's contention to extend the benefit under HT I(A) optional category to the consumers if such consumers do not exceed 150 kVA demand for 4 consecutive months in a year in place of the existing 2 months duration is not acceptable.
- 2.11.11 As regards the request of the stakeholder to enhance the load limit of HT I(A) (Optional) category from 150 kVA to 200 kVA / 250 kVA is not tenable as the HT

I(A) optional category was carved out by the Commission to give some relief to the consumers with lower power requirements and such benefits cannot be extended to all the industries that fall under the MSME sector. Extension of the same will give rise to several difficulties in both commercial and technical, which will affect the functioning of the licensees in both technical and commercial operations.

- 2.11.12 As regards the request of the stakeholder to dispense away with two-part tariff, it is pertinent to mention that the general principle of tariff structure is to have two-part tariff i.e., Demand Charges and Energy Charges. It has been the endeavour of the Commission to determine two-part tariff to the HT consumer categories. The request of the stakeholder to dispense with two-part tariff is not tenable. Two-part tariff is a concept to charge a consumer with demand of electricity both for meeting the system and content. For HT category the two-part tariff is that the licensee has to maintain the system as well as make available energy and therefore, has to be charged for both.
- 2.11.13 As regards the stakeholder's submissions regarding the comparison of voltage wise tariffs with other States, such a comparison can be at best for academic purpose as the tariff determination is dependent on several factors which vary from State to State. It is also dependant on the nature and quality of supply extended by such licensees.

## **2.12 TARIFF FOR START-UP POWER**

### ***Stakeholders' submissions***

- 2.12.1 The demand charges and energy charges towards contracted demand maintained by the power generating plants for start-up power requirement should be (i) demand charges to be removed or reduction in the applicable rate of 50% to 25%, (ii) since the nature of start-up power connections are standby and only to draw occasionally as and when required, the clause of minimum billing should be removed and the billing should be only on actual consumption.

### ***Replies of Licensees***

- 2.12.2 The concept of the levy of demand charges and minimum energy charges are the recovery of the fixed cost incurred by the licensee like fixed cost commitment to power generators, transmission cost & distribution network cost etc. For the power generating plants using power for start-up of their generation plant, the licensee has to keep ready entire system to provide power supply as and when required and it is the obligation of the Licensee also. In this regard, the Licensee will incur fixed cost towards power purchase, transmission and distribution network whether power is drawn or not by the generator. The recovery of fixed charges of power generation through demand charges, customer charges and minimum energy charges levied on the consumers is around 10% of the fixed cost obligation. In view of the above, the

proposals of reduction of demand charges to 25% instead of 50% and removal of minimum energy charges for power plants availing start-up power by the petitioner are not acceptable.

***Commission's Views***

- 2.12.3 In the Tariff Order for FY 2017-18, based on the representation, the Commission had approved the billing of demand charges for the generating stations availing start-up power at the rate of 50% of the rate approved for the particular consumer category. The Commission does not find it prudent to further reduce the same.

**2.13 TARIFF FOR ELECTRIC VEHICLE CHARGING STATIONS/ CHARGING INFRASTRUCTURE/ BATTERY SWAP SET UP**

***Stakeholders' submissions***

- 2.13.1 As per the draft Electric Vehicle Policy of the Telangana State, the targets set for electric buses for inter-city, intra-city and inter-state transport are 25% by 2022, 50% by 2025 and 100% by 2030. To support the infrastructure, roads, power and water will be provided at the doorstep of the industry for standalone units through infrastructure assistance under IIDF (including exemption from paying various charges to local bodies and government agencies).
- 2.13.2 Telangana State Road Transport Corporation (TSRTC) is a public undertaking transport having 97 depots. The corporation is registered under Industrial Act and is transporting 93.62 lakhs commuters daily on TSRTC buses and operating the buses to far away villages from urban areas. Hence, the tariff for power supply for HT category to electric vehicle charging stations may be determined under minimum subsidy rates so as to meet the targets set in the Electric Vehicle Policy.

***Replies of Licensees***

- 2.13.3 The subsidised/concessional tariff for Electric Vehicle Charging Stations/ Charging infrastructure/ Battery Swap set up set up at LT and HT level by TSRTC will be provided if the GoTS extends any subsidy to the above category under Section 62 of the Act.

***Commission's Views***

- 2.13.4 The subsidised tariff can be considered by the Commission only when the consequential additional subsidy commitment is provided by GoTS. Otherwise, the issue may be represented by the stakeholder to appropriate authorities in the State Government for subvention directly to the DISCOMs.

**2.14 TARIFF FOR AIRPORTS**

***Stakeholders' submissions***

- 2.14.1 Many commercial establishments are being operated within the Rajiv Gandhi International Airport, which is being charged at the same tariff of Bus Stations and Railway Stations. A separate category should be created for Rajiv Gandhi International Airport with appropriate tariff considering the nature of its operations.
- 2.14.2 GMR Hyderabad International Airport Limited has been awarded the concession by the Government of India, Ministry of Civil Aviation, to design, finance, construct, operate and maintain an international greenfield airport viz., Rajiv Gandhi International Airport at Shamshabad. The State Government and the Airports Authority of India are holding 13% each in the equity share capital of GHIAL. The State Government has also given on lease the land to GHIAL for the development of the Airport and other airport and non-airport activities for the socio-economic development of the State. The Commission had directed TSSPDCL to segregate the aviation activity loads and non-aviation activity loads of GHIAL. In this regard, it is submitted that the erstwhile APERC, taking due cognizance of the submissions of the erstwhile APCPDCL and other techno-legal problems regarding the segregation of loads, had created the HT III category with composite tariff considering 61% aviation activity and 39% non-aviation activity. In light of the above, the Commission may treat the issue as closed.

***Replies of Licensees***

- 2.14.3 The erstwhile APERC had created HT III category in its Tariff Order for FY 2012-13 for aviation activity at Airports and stated that non-aviation activities shall be billed under HT II category, for which the segregation of loads at airport is necessary. In course of time, several techno legal problems have arisen for implementation of this tariff. In the related matter, an appeal has been filed by the erstwhile APCPDCL before the Hon'ble Supreme Court (C. A. No. 1954 of 2012) which is pending adjudication. Hence, the issue of segregation of loads at airport and separate metering is not yet closed as the matter is sub-judice.

***Commission's Views***

- 2.14.4 The number of consumers in HT III category in SPDCL license area is GHIAL and is the only consumer, therefore, clubbing of airports with railway stations and bus-stations in this category, which is a 132 kV level consumer is incorrect and inappropriate.
- 2.14.5 The erstwhile APERC in its Tariff Order for FY 2012-13 ruled as under:  
*“112. In this background, for the FY 2012-13, the Commission has decided to create a separate tariff category with two part tariff, with separate demand and energy charges, for the end use of energy for aviation activity at airports. Since the energy consumption profile of the aviation activity is not readily available*

since such a separate “aviation activity” category was not available earlier to this, computation of the cost of service is not possible. Hence, the tariff for the separate category of “aviation activity” has to be made based on an approximate assessment of the class load factor of aviation activity. It would be reasonable to assess that the load factor of aviation activity will be higher than that of HT-II: Others but lower than that of HT-I(A):Industry General. To make a beginning, the Commission has decided to create a separate category nomenclatured as HT-III-“Aviation Activity at Airports” and fix the energy charges for the said category at mid point between HT-I(A):Industry General and HT-II: Others. The Commission has also decided that the demand charges shall be levied on this newly created HT-III - “Aviation Activity at Airports” category at rates as applicable for HT-I(A) and HT-II consumer categories. The Commission has decided that Time of day (ToD) charges also shall be levied on the HT-III - “Aviation Activity at Airports” category.

.....  
 113. The activity at airports consists of “Aviation Activity” as well as non-aviation activity. Aviation activity will naturally fall in the newly created HT-III “Aviation Activity at Airports” as indicated above. The non-aviation activity, as per the nomenclature of the categories in HT tariffs, will fall under HT-II – (Others), since HT-II (Others) is applicable as per the tariff order to all consumers other than those covered under HT I category and those covered by HT - III to VIII categories.

In order to bill the “aviation activity at airports” under the newly created HT-III category and the non-aviation activity under the HT-II category respectively, it will be necessary to segregate the loads at airports into aviation related loads and non-aviation related loads and separately meter the energy consumption in these two usages by installing separate metering.

The Commission is of the opinion that the segregation of loads and separate installation of metering can be done by 31-07-2012. After separate metering is installed for aviation and non-aviation activities, the billing can be done as per HT III for aviation and HT II for non-aviation on actual meter readings with effect from the date of commencement of separate metering.

.....”

2.14.6 Further, the erstwhile APERC in its Tariff Order for FY 2013-14 ruled as under:

“The Commission has created this consumer category in Tariff Order for FY 2012-13 and the reasons for creation of this consumer category have been provided therein. In course of time, several techno legal problems have arisen for implementation of this tariff and the Commission also prefers to await the decision of the Hon’ble Supreme Court of India on this matter.

However, In course of time, the Commission has noted that the Railway Stations and Bus Stations also have mix of loads similar to that of Airports. The energy consumption pattern at these specific places likely to record higher load factor than that of a normal HT – II : Others consumers on account of usage of energy throughout the day for both primary operations relating to passenger services and continuous running of commercial enterprises in these premises. Accordingly, the Commission has decided to create a new HT

*category titled HT – III: Airports, Railway Stations and Bus Stations for FY 2013-14 with the view that the consumption pattern differs from that of HT – II: Others.”*

2.14.7 Further, the then APERC initiated the process of deciding HT tariff and ultimately by an order dated 13.02.2013 passed the following”

“.....

*14. Considering the inspection report, the Commission hereby directs the respondent to consider the percentage of loads for aviation and non-aviation activity as 61:39 till the billing month of December 2012 and revised ratio of 55.66:44.34 from the billing month of January 2013 till 31.03.2013 since the tariff order determined is valid for FY 2012-13 only. Hence, the points are answered accordingly.”*

2.14.8 From the excerpts of the Tariff Orders for FY 2012-13 and FY 2013-14 reproduced above, it is amply clear that the segregation of aviation and non-aviation loads was envisaged right at the time of creation of this category. SPDCL submitted that commissioning of new 220/33 kV S/s for catering to existing and upcoming commercial, industrial category loads, the non-aviation loads of GHIAL will be segregated and fed from new S/s with a separate metering at source point and billing will be done under appropriate category.

2.14.9 Further, the non-core activities in the Railway Stations and Bus Stations are billed under HT II category. Separate dispensation cannot be awarded to Airports in this regard. In light of the above, the aviation and non-aviation loads should be segregated and metered separately. DISCOMs to follow the Tariff Order of FY 2012-13 of erstwhile APERC.

## **2.15 TARIFF FOR HT IV(A) CATEGORY (LIFT IRRIGATION SCHEMES)**

### ***Stakeholders’ submissions***

2.15.1 In Telangana State, it is essential to develop and rely upon lift irrigation schemes with large capacity pumps with high discharge of water for meeting the majority of the irrigation needs. The rating of the motor pump sets in the existing LI schemes is of the order of 10 MW to 20 MW and in the upcoming LI schemes, the rating is of the order of 150 MW and above. The Irrigation and Command Area Development Department has undertaken 34 major and medium irrigation projects and the total installed capacity of the pumping stations is envisaged to increase to 10000 MW by FY 2019-20 from the current level of 1200 MW. Consequent upon addition of the capacity planned due to pumping stations, the cumulative consumption of energy is expected to increase to 18000 MU by FY 2019-20.

- 2.15.2 With the increase in LI capacity, water pumped into reservoirs will flow by gravity canals and all the pump sets run by individual farmers to meet their agricultural needs may no longer be required. Thus, the increase in number of large capacity LI pumps shall replace the need for operating/setting up of small capacity pumps by individual farmers for irrigation purpose of the same land. On a cumulative analysis, it is observed that while the electricity consumption by LI schemes is likely to increase from 1671 MU in FY 2017-18 to 17445 MU in FY 2019-20, consequently, the LT agricultural consumption may get reduced from 11765 MU in FY 2017-18 to 3727 MU in FY 2019-20. It is noticed that 100% impact of the increase in LI consumption on the LT agricultural consumption is likely to be shown by the pump sets in the immediately succeeding year of installation of LI capacity for any specific ayacut region.
- 2.15.3 The reduction in LT agricultural consumption results in lower LT level sales and thereby increase in HT level sales. The DISCOMs would benefit due to significantly lower levels of losses at HT voltages and are likely to achieve loss reduction trajectory set under the UDAY scheme. Further, the LI schemes being of higher efficiency than the LT pumps, there is bound to be overall reduction in sales and efficient utilisation of resources.
- 2.15.4 Currently, the State Government is paying the power bills of all LI schemes. At the current tariff of Rs. 6.40/kVAh, the total power bill for LI schemes is expected to be Rs. 1000 crore. The DISCOMs have proposed two-part tariff with demand charges billing on seasonal basis for FY 2018-19. Considering the proposed tariffs for FY 2018-19, the power bills for LI schemes is expected to be Rs. 4977 crore in FY 2018-19 and Rs. 10464 crore in FY 2019-20. It is observed that the tariff in Telangana State, on comparison of the tariff applicable for LI category in Telangana State with the other States like Maharashtra, Karnataka, Tamil Nadu, Kerala etc., is one of the highest except for Uttar Pradesh and Haryana. Considering the above, the tariff of HT IV(A) may be relooked and suitably reduced.
- 2.15.5 The Commission has adopted the embedded cost methodology to determine the cost category wise Cost of Supply (CoS) and tariff thereof. The CoS for HT IV Category is a whole is determined and not separately for HT IV(A) and HT IV(B). The CoS should be determined separately for HT IV(A). Further, the approved tariff is uniform across all voltage levels despite different CoS for different voltage levels. The approved tariff should have been aligned to consumption at EHT level, where consumption is significantly higher than consumption at HT level. All the future LI

capacity addition is at EHT level and hence, the tariff has to be in line with the lower CoS at higher voltages that may be considered.

- 2.15.6 The LI schemes have a significant impact on the socio-economic development of the state as a whole. Therefore, the tariff to be levied for the electricity consumption should be much lower than other categories, because it is being utilized for public good. However, the tariff applicable for LI schemes is higher than the CoS at the respective voltage level and also the average CoS of the respective DISCOM. Hence, the tariff for HT IV(A) may be determined at the same level of the respective CoS which would otherwise cause additional burden to the State at additional costs and delay further implementation of LI schemes in the State.
- 2.15.7 The LI pumps are mostly operated in monsoon period, for lifting water from Krishna and Godavari rivers and their tributaries depending on water availability during the period. The LI consumption rises during July and falls from November. The LI load supports the DISCOMs in flattening the yearly load curve by higher load in monsoon period, when hydro power generation is maximum and the reduced power demand in domestic, commercial and agriculture categories.
- 2.15.8 On comparison of the monthly average power purchase cost of DISCOMs and the monthly electricity rates in power exchanges during FY 2016-17, it could be observed that the monthly electricity rates in short-term market during monsoon season are on lower side. The power can be specially sourced for supplying the consumption in monsoon period, resulting in lower power purchase cost in the said period, thus benefiting the DISCOMs. During monsoon period, DISCOMs can avail such low-cost power from the market to source the LI load. Cost of Supply to LI category should be lower as cost of power procurement for incremental supply to LI category during monsoon season is likely to be much lower. The per unit fixed cost of power purchase during monsoon season is reduced owing to higher consumption. LI pumps cause minimum burden during non-monsoon/summer, when DISCOMs power purchase cost is on a higher side.
- 2.15.9 Considering the unique consumption pattern, and the corresponding seasonal variation in the cost of supply to LI category, the Commission may determine a seasonally varying tariff for LI category such that a lower tariff is applicable during monsoon period (July to November) and normal tariff for rest of the year. Section 62(3) of the Act permits differential tariff for any specified period or time for any category. The Commission may also determine seasonal cost of supply for LI category considering its unique consumption pattern of peak consumption in those months

when consumption of all other categories drop.

2.15.10 The DISCOMs may be suitably directed to undertake power procurement process in such a manner so as to benefit from lower market rates in the monsoon period.

2.15.11 The DISCOMs have proposed two-part tariff in place of the existing single part tariff with revenue neutrality for both the DISCOMs combined. The effective per unit tariff of Rs. 6.44 per unit proposed by the DISCOMs is marginally higher than the existing tariff of Rs. 6.40 per unit. The key observations and comments on the proposed tariff for HT IV(A) are as follows:

2.15.11.1 Despite different Cost of Supply at different voltage levels, DISCOMs have proposed uniform tariff for all voltage levels. The tariffs should reflect Cost of Supply at each voltage level.

2.15.11.2 Energy charges during operational season (July to November) should be lower by at least 10%, compared to the energy charges for the non-operational season (December to June), considering the low-cost power available during the said period which coincides with the monsoon season as well as the low power demand period. DISCOMs can avail cheaper power from power exchanges or through bilateral arrangements during the said period and thus supply power for LI consumption during those months at cheaper rates.

2.15.11.3 The proposed two-part tariff structure by the DISCOMs does not provide any incentive to LI schemes to manage their loads. The demand charges are to be determined at such a level that it actually lowers the tariff burden on LI category.

2.15.11.4 During the operational months (July to November), the pumps operate continuously and as a result, the load is almost 100%. However, during the non-operational months, only the pumping station auxiliary load would exist which would be to the tune of 10% of CMD. The Demand Charges should be levied on 10% of CMD, or RMD for non-operational months (December to June).

***Replies of Licensees***

2.15.12 As regards the tariff proposal of the DISCOMs for FY 2018-19 for HT IV(A) category, prudent principles of tariff recovery have been followed, for tariffs to be reflective of actual usage. Since substantial portion of the costs incurred by the Licensees are fixed in nature, the demand charges of Rs. 390/kVA/month have been proposed which is the same for other HT consumers. However, in order to avoid any additional burden on irrigation department, the energy charges have been lowered to make it a revenue neutral proposition.

- 2.15.13 As regards the uniform tariff at all voltage levels for HT IV(A) category, the DISCOMs have adopted the similar approach of the Commission during the previous years, wherein an average cost of service was proposed to LI schemes.
- 2.15.14 The DISCOMs have assumed a load factor of 65% for the LI schemes. As per the existing practice, differential tariff structure is applicable for seasonal industries wherein during off-season, the billing of demand charges is on 30% of CMD or RMD whichever is higher. Similar approach has been adopted in the tariff proposal for LI schemes. The intent of introducing seasonal billing demand is to avoid creating additional financial burden on LI schemes and a revenue neutral proposal has been made.
- 2.15.15 The power purchase cost of the DISCOMs depend on the generation mix and also on the energy requirement. As per the merit order, during the periods of high energy requirement, even high cost stations get dispatched which could lead to incremental increase in power purchase cost. During the months of operation of LI schemes, energy requirement is on the higher side and proposal for lower Energy Charges during those months may not be feasible.
- 2.15.16 If the agricultural service connections become redundant after the commissioning of lift irrigation schemes, the government subsidy for the agricultural category will be curtailed and that amount shall be diverted for payment of power bills of lift irrigation schemes.

***Commission's Views***

- 2.15.17 The Commission has taken note of the stakeholders' submissions and the replies of the Licensees.
- 2.15.18 As regards the contention of the stakeholder regarding the determination of CoS for HT IV(A) and IV(B) combined, this has been the approach adopted by the Commission in the previous tariff orders accordingly, the same is continued.
- 2.15.19 The stakeholder submitted that the electricity rates in the open market during the monsoon period are lower than the cost of power purchase of the DISCOMs and hence the power during those months should be procured from the open market and supplied to the lift irrigation schemes at lower tariffs. This contention of the stakeholder is not tenable for the following reasons:
- 2.15.19.1 Adequate generation capacity had already been contracted by the DISCOMs under long-term PPAs, to cater to the power requirements of the lift irrigation schemes

also.

- 2.15.19.2 During the months of July to November 2017, the tariffs for power purchased by the DISCOMs from the power exchanges was in the range of Rs. 3.34/kWh to Rs. 4.79/kWh. In view of such high electricity rates in the open market, backing down of the long-term sources and procuring in the open market is detrimental to the finances of the DISCOM.
- 2.15.19.3 The DISCOMs should go for open market purchases only when the availability from existing sources is not adequate for meeting the power requirements. Depending on the open market for procuring substantial power requirement of lift irrigation schemes would be detrimental as short-term power is given the least priority in scheduling and despatch.
- 2.15.20 As regards the contention of the stakeholder to determine seasonal CoS, this contention is not tenable as CoS determined on the basis of infirm sources of power purchase would give inappropriate results.
- 2.15.21 The request of the stakeholder regarding the tariff proposal for lift irrigation schemes is not tenable for the following:
- 2.15.21.1 The tariff applicable to HT IV(A) is within  $\pm 20\%$  of the average CoS.
- 2.15.21.2 The stakeholder admitted that the power bills of the lift irrigation schemes are being paid by the State Government. The stakeholder also submitted that the consumption by the agricultural services would be reduced drastically due to lift irrigation schemes.
- 2.15.21.3 The subsidy for agricultural consumption is being provided by the State Government. Hence, if the agricultural consumption is reduced due to lift irrigation schemes, the subsidy commitment of the State Government may be diverted for payment of power bills of lift irrigation schemes. Further, the stakeholder may approach the appropriate authorities in the State Government for subvention directly to the DISCOMs.

## **2.16 TARIFF FOR HT V(A) (RAILWAY TRACTION)**

### ***Stakeholders' submissions***

- 2.16.1 South Central Railway avails traction power at 132 kV level at 16 traction substations in Telangana State. The total projected consumption of railway traction is 598 MU in FY 2017-18. In view of the new electrification works, 7 more traction substations at Mattampalli, Manoharabad, Thimmapur, Kothapalli, Miryalaguda, Ramannapet and Mahaboobnagar are expected to be commissioned in FY 2018-19 and the

consumption will increase.

- 2.16.2 The DISCOMs have proposed the tariff of FY 2017-18 for HT V(A), for FY 2018-19 also.
- 2.16.3 Substantial power is drawn by railway traction load during off peak period, thus helping in improving the base load of the DISCOMs and supporting the grid stability. The Commission is requested to determine the tariff for HT V(A) reasonably and the cross subsidy is required to be reduced to zero gradually.
- 2.16.4 The energy charges for railway traction is higher than HMR by 10 paise despite both availing power at the same voltage level and for the same services in public transport. The HT V(B) tariff is applicable to traction and non-traction loads of HMR like access pathways and enabling areas related to its operations. Hence, the Commission is requested to determine the tariff of railway traction similar to HMR for traction and non-traction purpose for all its train operations related activities i.e., including railway stations, coaching depots, loco sheds/workshops etc.

***Replies of Licensees***

- 2.16.5 As per Clause 11 of the Regulation No. 4 of 2016, the deemed licensee shall make an application in the form specified in Schedule 2 to the Commission to get identified as deemed licensee.
- 2.16.6 The DISCOMs have followed the principles outlined in the tariff Policy and provisions of the Act, 2003 with regard to open access. Based on the representation of the Railways, the Commission had reduced the tariff of railway traction for FY 2017-18. The DISCOMs have proposed to retain the same reduced tariff for FY 2018-19 as well, avoiding any additional burden on Railways.
- 2.16.7 Considering the nature of activities in HMR which are being aimed at providing convenience to general public, a single unified tariff for HMR was proposed. In view of the essential services being provided by HMR to consumers in the city of Hyderabad, energy charges for HT V(B) are marginally lower than that of HT V(A) category. However, activities of shops are commercial in nature and the commercial load at HMR stations and other HMR premises including any retail counters that are set up under the Telangana Shops and Establishments Act, 1988 shall be metered and billed separately as per the relevant tariff category. The impact of operations of HMR and Railways are different due to the nature of operations and purpose served by them. Two-part tariff is applicable to both HMR and Railway Traction, keeping in view the prudent practice of recovery of costs. The entities availing power can optimise the

cost of procurement depending on their operating profiles. Hence, the Commission is requested to continue with current classification of loads to be billed under HT V(A) category.

***Commission's Views***

- 2.16.8 As regards the contention of the stakeholder that the nature of operations of HMR and Indian Railways is similar, it is pertinent to note that the metro rail operations are only for providing transportation facilities to the common public at large while the South-Central Railway provide transportation facilities for common public at large as well as for goods. The transportation of goods is done by the Indian Railways on commercial basis by charging tariff at commercial rates and the same is higher than passenger rates. Hence, the nature of operations of HMR and Indian Railways are distinct and the same rationale cannot be applied for same tariff as well as the terms and conditions for applicability of HT V(A) and HT V(B).
- 2.16.9 As regards the reduction of tariff of HT V(A) category, the tariff of HT V(A) approved in the Tariff Order for FY 2017-18 is significantly lower than the tariff approved in the Tariff Order for FY 2016-17. The tariffs applicable for Railway Traction in different States as well as the tariffs in the open access may be looked into for comparison purposes at best but such comparison cannot be prudent rationale for determining the tariffs applicable in the State. Hence, the Commission does not find merit in the prayer of the stakeholder to consider the downward revision of tariff of HT V(A).

**2.17 LOAD FACTOR INCENTIVE**

***Stakeholders' submissions***

- 2.17.1 Load Factor incentive may be provided to encourage consumers with higher loads so that it may result in increased sales, higher PLFs for thermal power plants for welfare of all stakeholders.

***Replies of Licensees***

- 2.17.2 As there is no increase in tariffs for FY 2017-18 and FY 2018-19, the extension of further incentives is not possible.

***Commission's Views***

- 2.17.3 The Commission has taken note of the stakeholders' submissions and the replies of the Licensees.

**2.18 INTEREST ON DELAYED PAYMENTS**

***Stakeholders' submissions***

- 2.18.1 The interest on delayed payments at 18% is high. In view of the falling interest rates,

it should be reduced suitably. Further, as against the penal interest levied on delayed payments, concessional interest should be charged on sanctioned instalments to make it easier for the consumers already in distress, in line with the commitment of governments to ease of doing business.

### **Replies of Licensees**

- 2.18.2 Interest on delayed payments will be levied only in accordance with the conditions stipulated in the tariff order. It is the responsibility of the consumer to pay the bill in time and not fair on part of the stakeholder to seek reduction in interest on delayed payments.

### **Commission's Views**

- 2.18.3 The Commission has taken note of the replies of the Licensees to the stakeholders' submissions. The objective of delayed payment surcharge is not to recover the cost of capital but the interest rate has to act as deterrent for delaying the payments and compensatory in nature.
- 2.18.4 In fact, the payment of interest and additional charges were occurred by the Hon'ble High Court of Andhra Pradesh in its Judgment reported in AIR 1999 A. P. Page 416. The decision was rendered by a three Judge Constitutional Bench in the matter of M/s Venkateswara Rice Mill Vs. Superintending Engineer, Operation Rural Circle, APSEB, Hyderabad decided on 27.03.1998. It was observed therein, which is extracted as below:

*"The idea behind incorporating the words 'in addition to any additional charges leviable due to belated payment' in para 34 is to preserve the liability under CI.32.2 to pay surcharge despite the payment of interest on the outstanding dues. It cannot be said that the words "in addition to ..... As per CI.32.2" in para 34 are introduced merely by way of abundant caution; words are meant to allow CI. 32.2 to have its full sway...*

*... The Board, although a service oriented statutory body is not expected to abdicate all business principles. S. 59 enjoins on the Board the duty to generate surplus funds of not less than 3% after meeting all costs and expenses and it is towards this end, the operations of the Board have to be carried out on and the tariffs are to be adjusted. While the power is reserved to the Board to accede to the representations of the consumers who may be facing financial difficulties and such enabling power is a necessary concomitant of the functions of the Board, the Board in that process should not suffer problems which may hinder its effective and efficient functioning. No doubt, it seems that the collection of both additional charge and interest from those consumers who request for instalments may visit the consumer with extra burden, but, such a provision can be said to have been consciously introduce with a view to discourage the request for deferring the payments...*

*... Matter can be viewed from a different angle. A consumer who defaults in payment and is already under an obligation to pay the surcharge under Clause*

32.2, by getting an order permitting payment in instalments, enjoys immunity from disconnection. He is enabled to make use of power and thereby ward off the adverse consequences of power disconnection. In any case, he was liable to pay the late payment surcharge. But, once he avails of a positive facility or concession by approaching the Board insisting that he should pay interest under Clause 34 over and above the late payment surcharge. A defaulting consumer who is a recipient of a positive advantage by the Board's forbearance in disconnecting the power supply, cannot be heard to complain that an extra amount is being demanded from him.....”

2.18.5 Therefore, levy of interest on delay payment surcharge is appropriate and the stakeholders cannot wish away the same.

## **2.19 PAYMENT REBATES**

### ***Stakeholders' submissions***

2.19.1 Rebate of 0.5% for advance payments may be provided.

2.19.2 Rebate of 0.25% may be provided for online payments to encourage digital transactions.

### ***Replies of Licensees***

2.19.3 The proposal for payment rebates shall be submitted in the tariff proposal for the next year after studying such practices in other state DISCOMs.

### ***Commission's Views***

2.19.4 The Commission has taken note of the replies of the Licensees to the stakeholders' submissions. The Commission in this order has not approved any additional rebate mechanism. The Commission will take a view in the matter when the concrete proposal is filed by licensees in this regard.

## **2.20 CHARGES FOR BILL PAYMENT**

### ***Stakeholders' submissions***

2.20.1 The service charges for bill payment in e-seva centres should be dispensed away.

### ***Replies of Licensees***

2.20.2 The DISCOMs have not submitted any reply.

### ***Commission's Views***

2.20.3 The consumers are allowed to pay bills in the various modes, they being cash payment at the accounts office of the licensee or at e-seva centres established by the government. The other modes of payment being cheque or demand draft at the same places or online payment through e-seva or bank, payment using debit or credit cards through banks or e-seva online or the licensees bill payment portal. Of all these payments, it is stated that service charges are collected by e-seva centres. In this

regard, the Commission recollects a fact that the licensees have to pay charges to e-seva for every bill collected by it. This charge was Rs. 2/- initially and later in the year 2011, it was enhanced to Rs. 5/-. This charge is being collected by the e-seva centres whenever the bill payment is made by the consumer in respect of the electricity charges.

- 2.20.4 At this stage, the then licensees have approached the then APERC for enhancing the customer charges being collected by them, which was Rs. 20/-. The then Commission initiated proceedings and rejected the request of the licensees stating that such charges have to be worked out by the licensees with the e-seva department in consultation with the government. The said order was passed in O. P. No. 38 of 2009 on 21.05.2011.
- 2.20.5 Further, the then Government of Andhra Pradesh has imposed usual charges vide G. O. Ms. No. 31 dated 22.02.2013 and the said charges are being collected by e-seva both at the e-seva centre as well as online payment of e-seva. The levy of any charges or stoppage of the same is not within the domain of this Commission. The licensees shall ensure that these charges are either withdrawn or the burden of the same is minimised to the consumers by initiating steps and taking up the matter with the appropriate authorities at the highest level possible. The licensees shall report about the steps taken in the matter in the subsequent filing of ARR.

## **2.21 GOVERNMENT SUBSIDY**

### ***Stakeholders' submissions***

- 2.21.1 The subsidy required for FY 2018-19, after adjusting the cross subsidy for agriculture, for purchasing and supplying power to agriculture should be provided by the GoTS to implement its decision on supply of power to agriculture.
- 2.21.2 The subsidy provided by the State Government for agriculture and other categories is not being reflected succinctly in the ARRs of the DISCOMs. It would help in understanding the financial realities, if such details are detailed in a separate section. Most often tariff filings precede the State Government budget estimations. Thus, electricity subsidies, as reflected in tariff filings are at best expectations, and are not absolute. The subsidy amounts in the tariff filings may not match with the State budget allocations presented in the legislature in later days. In this regard, the Commission has to ask for an undertaking from the Government that responds to the subsidy expectations in tariff filings and/or direct DISCOMs to produce the basis for such expectations. Nevertheless, there is often a gap between expectations of DISCOMs as reflected in the tariff filings, government budgetary allocations, sanction and actual release of funds. This gap, between expectation by the DISCOMs, budgetary allocations by the Government and actual release of funds also needs to be discussed

by collating, collecting and presenting such data, from the previous year, in addition to the current FY under discussion.

***Replies of Licensees***

- 2.21.3 The GoTS has been providing the tariff subsidy to the DISCOMs as determined by the Commission in its tariff order. The tariff subsidy is being finalized by the Commission upon receipt of consent u/s 65 of the Act, 2003 in respect of grant of subsidy for the corresponding financial year.

***Commission's Views***

- 2.21.4 The Commission after examining the cost, revenue and cross subsidy for each consumer category and considering the reference tariff schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2018-19 which the licensees will have to charge in the absence of any external subsidy u/s 65 of the Act, 2003 in order to generate the revenue required to meet the approved cost. Considering the subsidy commitment of GoTS u/s 65 of the Act, 2003 the retail supply tariffs for FY 2018-19 have been determined.

**2.22 REVENUE AND REVENUE DEFICIT FOR FY 2018-19**

***Stakeholders' submissions***

- 2.22.1 SPDCL has projected the ARR of Rs. 23518.88 crore and total revenue at current tariffs, including non-tariff income, of Rs. 19296.50 crore, with a revenue deficit of Rs. 4222.39 crore for FY 2018-19. NPDCL has projected the ARR of Rs. 12255.40 crore and total revenue at current tariffs, including non-tariff income, of Rs. 6706.00 crore, with a revenue deficit of Rs. 5548.60 crore. The DISCOMs have not proposed any tariff hike, except making some modifications in tariff for lift irrigation schemes, introducing a new category for electrical vehicles, and requested the Commission to permit them to collect tariffs determined for FY 2017-18 for FY 2018-19 also. The DISCOMs requested the Commission to determine standby charges but have not estimated any income from the same. The DISCOMs have not explained as to how they propose to bridge the projected revenue deficit of Rs. 9770.98 crore and to what extent the GoTS would provide subsidy to bridge the projected revenue deficit.
- 2.22.2 During the previous years, the subsidy commitment of GoTS was less than the subsidy commitment as per the UDAY MoU. As per the UDAY MoU, the proposed tariff increase for FY 2018-19 is 6% resulting in additional revenue of Rs. 1510 crore and the subsidy commitment to the extent of Rs. 5000 crore. Both these measures would not have been sufficient to meet the proposed revenue deficit. In view of the commitment of the State Government in the UDAY MoU wherein it was stated that the Government of Telangana State would examine the tariff issue after the ARR is filed and the deficit will be met either by increase in subsidy support or by increase in

tariffs. As no tariff increase has been proposed for FY 2018-19, GoTS need to provide the full commitment of the required subsidy to make up for the revenue deficit.

- 2.22.3 Despite the tariff increase and substantial amounts of government subsidy every year, the DISCOMs are projecting huge amounts of revenue deficit for the past periods. For FY 2016-17, after the tariff increase and subsidy commitment of GoTS, the revenue deficit as submitted by the DISCOMs is Rs. 6474.53 crore. For FY 2017-18, the DISCOMs have submitted the revenue deficit of Rs. 6824.59 crore. The combined revenue deficit for FY 2016-17 and FY 2017-18 as submitted by the DISCOMs works out to Rs. 13299.12 crore which is to the tune of 37.17% of the proposed ARR for FY 2018-19. The revenue deficit for FY 2018-19 need to be determined realistically considering all the factors like energy requirement, energy availability, requirement of additional peaking power, higher tariffs of NCE sources etc.

#### ***Replies of Licensees***

- 2.22.4 As regards the tariff proposal for charging of electric vehicles, the DISCOMs have proposed the same to be charged under commercial category in LT and HT based on the voltage of usage. This would give clarity on tariff applicable for electric vehicles charging stations. The revenue from this segment may not have material impact. As regards the provisions in the UDAY MoU, the UDAY MoU has prescribed tariff hikes but has not mandated any fixed level of subsidy. As regards the proposal to bridge the revenue deficit for FY 2018-19, the revenue deficit has to be met through suitable support from the Government after scrutiny of the same by the Commission.
- 2.22.5 As regards the revenue deficit for previous years, one of the major reasons for the losses incurred by the DISCOMs is due to the low level of agricultural sales approved by the Commission. The supply of 24x7 power supply is a policy decision of GoTS and the DISCOMs have been successful in meeting this objective. This particular aspect has a major bearing on the revenue deficit for FY 2017-18. The DISCOMs have endeavoured to provide realistic estimate of demand and availability. Purchase of power from NCE sources would enable the DISCOMs in meeting RPPO which has a positive impact on the environment.

#### ***Commission's Views***

- 2.22.6 The Commission after examining the cost, revenue and cross subsidy for each consumer category and considering the Reference Tariff Schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2018-19 which the Licensees will have to charge in the absence of any external subsidy u/s 65 of the Act in order to generate the revenue required to meet the approved cost. Considering the subsidy commitment of GoTS u/s 65 of the Act, the Retail Supply Tariffs for FY 2018-19 have

been determined.

## 2.23 TRUING UP PROPOSALS

### *Stakeholders' submissions*

- 2.23.1 The DISCOMs have not submitted the truing up proposals for FY 2015-16 and FY 2016-17 along with the ARR and Tariff proposals for FY 2017-18. However, the Commission has provisionally carried out the truing up for FY 2015-16 and FY 2016-17 in its Tariff Order for FY 2017-18. The truing up proposals should be made public before deciding on the same.
- 2.23.2 In the instant filings of the DISCOMs for FY 2018-19, they have not submitted the revenue deficit/surplus for FY 2016-17. As the auditing of accounts for FY 2016-17 must have been completed, the Petition for true-up/true-down must have been filed before the Commission. SPDCL and NPDCL have projected the revised revenue deficit of Rs. 5031.17 crore and Rs. 1793.42 crore respectively for FY 2017-18. This projected revenue deficit has to be seen in light of no revision of tariffs for FY 2017-18. It can only be understood that the filings of truing up proposals for FY 2016-17 have been deferred to a later period. The Commission may direct the DISCOMs to submit the truing up proposals in time and issue Orders on the same after conducting public hearings. As the DISCOMs have not explained as to how they propose to bridge the projected revenue deficit for FY 2018-19, the Commission may make it clear that no truing up claims would be permitted later for revenue deficit, if any, that is going to be determined after taking into account the subsidy commitment of GoTS.

### *Replies of Licensees*

- 2.23.3 As regard the filing of truing up proposals, for the reasons stated by DISCOMs in the respective Petitions, there is high degree of uncertainty involved in estimating the truing up for FY 2017-18 due to 24 hours supply to agricultural consumers as well as LI schemes. For avoiding any undue burden on the consumers, the DISCOMs requested the Commission for filing of truing up in the ensuing year. Further the DISCOMs have submitted an application to the Commission for making amendments to the Principal Regulation No. 4 of 2005 on 11.08.2017 which is under consideration. The DISCOMs have also submitted a prayer on treatment of agricultural sales and losses which are likely to impact the truing up. In view of the above, the DISCOMs requested the Commission for filing of truing up separately.

### *Commission's Views*

- 2.23.4 The truing up proposals for FY 2015-16 and FY 2016-17 filed by the DISCOMs in accordance with Regulation No. 1 of 2014 were made available to the public along with the ARR and Tariff filings for FY 2017-18 and compliance to due regulatory

process was ensured before deciding on the same. Hence, the statement of the stakeholder that the truing up proposals for FY 2015-16 and FY 2016-17 were not made public is incorrect.

## **2.24 CREATION OF REGULATORY ASSET**

### ***Stakeholders' submissions***

2.24.1 Creation of Regulatory Asset can be considered by the Commission only to avoid tariff shock to the consumers and such Regulatory Asset can be permitted to be collected from the consumers in later years. In the subject proposals of the DISCOMs, as they have not proposed any tariff hike for FY 2018-19, the un-bridged revenue deficit, if any, as determined by the Commission, should not be treated as Regulatory Asset.

### ***Replies of Licensees***

2.24.2 The revenue gap has to be met through suitable support from the Government after scrutiny of the gap by the Commission.

### ***Commission's Views***

2.24.3 The Commission appreciates the views of the stakeholders and the Commission has not approved any Regulatory Asset in this Order.

## **2.25 TOD CHARGES**

### ***Stakeholders' submissions***

2.25.1 The Commission is requested to give relief to solar developers/ generators/ consumers by exempting them from the levy of TOD charges, in the retail supply tariff order for FY 2018-19.

### ***Replies of Licensees***

2.25.2 The levy of TOD charges is to maintain grid stability and to contain the peak loads. Hence, it shall be continued.

### ***Commission's Views***

2.25.3 The Commission has taken note of the stakeholders' submissions and replies of the DISCOMs.

## **2.26 ARREARS**

### ***Stakeholders' submissions***

2.26.1 As at September, 2017, the DISCOMs together have arrears to the extent of Rs. 4575.23 crore from the consumers who have to pay more than Rs. 50000. As per the UDAY MoU, all outstanding dues from the State Government departments to DISCOMs for supply of electricity had to be paid by 31.03.2017. However, the dues

from State Government departments to SPDCL as on 30.09.2017 amounts to Rs. 2416.62 crore. The consumer category wise arrears may be submitted by NPDCL. The DISCOMs may be directed to take proactive steps to recover the dues expeditiously.

***Replies of Licensees***

- 2.26.2 The DISCOMs have been addressing the DO letters continuously to the concerned HODs of Irrigation, Panchayat Raj and Water Works, HMWS&SB, Municipalities etc. for payment of dues and payments are being received periodically.

***Commission's Views***

- 2.26.3 The Commission appreciates the concern of the stakeholders and directs the DISCOMs to make efforts for recovery of arrears. Efforts also should be made to convene a meeting at the highest-level officers including but not limited to the executive so as to sought out this burden so as to avoid fastening the arrears of the government on the other consumers.

**2.27 OPERATIONAL ISSUES**

***Stakeholders' submissions***

- 2.27.1 Due to the ground water shortage in many areas of the State, usage of 1 Ø motors for agricultural pumping is practicable rather than 3 Ø motors. In the past, when the supply to agricultural connections was rationed for 7 hours in a day, usage of 1 Ø motors for agricultural pumping was not permissible. With the supply to agricultural connections being provided for 24 hours in a day, suitable directions may be issued for withdrawal of this restriction to use only 3 Ø motors for agricultural pumping.
- 2.27.2 In the past the 3 Ø agricultural motors were replaced with 1 Ø agricultural motors without any cost burden to the farmers. Currently, the 1 Ø agricultural motors are being replaced with 3 Ø agricultural motors but the farmers are asked to bear the cost. The 1 Ø agricultural motors may be replaced with 3 Ø agricultural motors without any cost burden to the farmers.
- 2.27.3 The agricultural services are being released even when the length of the service wire is 300 m. as against the norm of 30 m.
- 2.27.4 Despite the claims of the DISCOMs about the precautionary and preventive measures to avert accidents, the number of fatal accidents is increasing.
- 2.27.5 The construction, operation & maintenance of electrical plant and lines, especially at distribution level by the DISCOMs is not in compliance to the CEA (Measures relating to safety and electric supply) Regulations, 2010, CEA (Technical Standards

for construction of electrical plants and lines) Regulations, 2010, and CEA (Safety requirements for construction, operation and maintenance of electrical plants and lines) Regulations, 2011. The State Government and the Chief Electrical Inspector to Government are not taking action on the DISCOMs.

2.27.6 Electrical accidents and timely response to consumer complaints:

2.27.6.1 Poor distribution network in rural areas, non-installation of AB switches, lack of awareness in consumers on safety etc. are the main causes of electrical accidents.

2.27.6.2 Delays are taking place in disbursement of ex-gratia for loss of life due to electrical accidents. Ex-gratia is not paid in some of the cases citing that the loss of life is not attributable to the DISCOM.

2.27.6.3 For fatally injured, pension should be provided in place of one-time ex-gratia.

2.27.6.4 All the facilities/compensation provided to the family of a deceased employee of the DISCOM should be provided to the family of a dead person due to electrocution.

2.27.6.5 Lack of adequate manpower is hampering the field officers in fulfilling their responsibilities.

2.27.7 Release of new connections and repairs of DTRs:

2.27.7.1 The consumer applications for new service connections are pending for many years, as old as 10 years in some cases.

2.27.7.2 The status of some of the consumer applications for new service connections is being shown as work completed on the website of the Licensee whereas, the work has not been actually completed.

2.27.7.3 The material estimate copy issued to the consumer seeking release of new connection should be in Telugu language.

2.27.7.4 The DISCOMs officials are not adhering to the provisions of the Regulation No. 4 of 2013 regarding the share of consumer contribution for release of new connection and raising the demand notices including the cost of DTR. The consumers are forced to purchase the material which the DISCOMs are obligated to supply. Further, the material is being transported by the consumers in most of the cases at their own cost, which should be actually done by the DISCOMs.

2.27.7.5 Consumers are forced to transport the failed DTRs for replacement at their own cost.

2.27.7.6 The stolen DTRs are not being replaced on time due to which the farmers are

adversely affected by loss of produce.

2.27.8 Functioning of Consumer Grievance Redressal Forums (CGRF):

2.27.8.1 The consumers are threatened by force to not approach the CGRF with their grievances.

2.27.8.2 The consumers must be allowed to approach any CGRF in the Licensee area and the CGRFs must be allowed to decide on the grievances of all consumers not limiting to the specified area.

2.27.8.3 The cases before CGRF are not being resolved within the stipulated time of 45 days.

2.27.8.4 Several instances have been observed wherein the Orders of the CGRFs issued in favour of consumers are not implemented.

2.27.8.5 The Fourth Member (Consumer Member) of the CGRF should be provided with voting rights.

2.27.8.6 Wide publicity is to be given about the CGRF meetings in advance through different media to enable effective participation of consumers.

2.27.9 The following actions need to be taken for improving the quality of transmission and distribution of power: (i) all the substations need to be provided with extra transformers, (ii) all the transformers need to be provided with meters and all the illegal connections to borewells should be regularised by collecting deposits and monthly charges, (iii) proper accounting of energy should be done to know the actual consumption by each category of consumer and this should be achieved either by metering the feeder transformers or any other way to measure actual consumption of electricity, (iv) engaging the farmers for works like erecting transformers, laying of lines etc. should be immediately avoided, (v) the system followed in Railways or for gas booking should be followed in the sanction of DTR and other services so that the consumer is better equipped with the status of his application/request, (vi) transporting of DTRs by the consumers for repairs, against the rules, should be immediately checked, (vii) the responsibility of bill collection to AE and ADE should be discontinued as they are not fulfilling their technical responsibilities, (viii) the payment of due amounts by the defaulting consumers should be made simpler as the existing lengthy procedure demotivates such defaulters from paying the due amounts, (ix) increase computerisation and reduce manpower deployment.

2.27.10 Every year more than 10% of the DTRs in the State are failing and need to be attended to. Though over the period there is decline in percentage of DTRs failing still the

existing levels of failure is unacceptable. Special attention need to be given to the circles with high failure rates. The procurement, operation, maintenance and repair of the DTRs need examination.

- 2.27.11 The agricultural consumers, by putting their efforts, are able to get the failed DTR replaced in 5-6 hours. Hence, the stipulated time of 48 hours for replacement of failed DTR may be revised to 6 hours. The fuse-off calls should be attended within 15 minutes by delegating adequate staff. Adequate number of vehicles should be made available for transportation of failed DTRs and those vehicles should not be used for any other purpose.
- 2.27.12 In case of non-payment of bills by some of the agricultural consumers supplied from a particular DTR, the power supply is being disconnected for all the consumers being supplied from that DTR. The power supply to the consumers who are paying the bills should not be interrupted.
- 2.27.13 The employees of the DISCOMs are not residing in their respective areas of duty.
- 2.27.14 The toll-free number should be widely advertised to bring awareness among the rural consumers.
- 2.27.15 The charges of Rs. 50 for services like name change etc. is accepted only in the form of Demand Draft, for which the consumer has to pay Rs. 35 to the bank and additionally lose a day at the bank. Such charges, including the charges for new service connections, may be allowed to be paid at collection counters.
- 2.27.16 Prepaid meters are being issued for the service connections of government offices. The government departments are not being provided with adequate funds for their operational needs. Prepaid meters may be issued to all willing consumers and not restrict the same to government offices.
- 2.27.17 The meters are being replaced frequently. Adherence to quality standards should be ensured in purchase of meters.
- 2.27.18 The electric lines passing over the houses should be relocated.

***Replies of Licensees***

- 2.27.19 As regards the restriction to use only 3 Ø motors for agricultural pumping, pumping of water from deep borewells with 1 Ø motors may lead to burn out of the agricultural pump sets. 3 Ø motors have the technical advantages like self-starting capability and balanced load on the grid. However, on humanitarian grounds, the DISCOM officials

are not stressing on the usage of only 3 Ø motors for agricultural pumping.

2.27.20 As regards the compliance to CEA norms, the Commission vide its MYT Order for the 3<sup>rd</sup> control period from FY 2014-15 to FY 2018-19 had approved special appropriation for safety measures. In compliance to the same, the DISCOMs are allocating such funds to the circles on yearly basis to carry out various safety works. The norms of fencing and minimum clearance as per the Indian Electricity Rules is followed. The defective DTR AB switches are being repaired on regular basis. The DTRs purchased are provided with surge diverters. However, in few cases, the surge diverters are disconnected due to short circuit.

2.27.21 As regards the electrical accidents, 85% of the budget for safety is allocated to rural areas where the accidents are on higher side to take up erection / rectification works like erection of intermediate poles, erection of fencing, earthing etc. on need basis. Further, safety week is conducted to create awareness among the consumers about the precautionary measures to be taken and the farmers are being educated by the local staff and advised not to meddle with live electrical equipment. The main reason for electrical accidents are sub-standard electrical wiring in the consumer premises, lack of earthing etc. As regards the release of ex-gratia, is being released to all cases of electrocution even if such electrocution is within the premises of the consumer.

2.27.22 As regards the release of new service connections, the agricultural services are being released on demand basis. In some of the cases, delay is there but that is only to not meddle with the agricultural activity during the crop season. The issue of material estimate copy in Telugu language shall be examined. The DTRs with rating of 25 kVA and below are being transported in the DISCOMs vehicles and the DTRs with higher rating are being transported by the consumers themselves. However, the transportation charges are being paid to such consumers. The recruitment of AEs, JLMs and ALMs is being carried out to strengthen the field level staff. The drives are conducted by the DISCOM seeking the details of all pending applications for service connections, no one turned out at that time. Therefore, several consumers have reported pending applications during the public hearing. The pending applications for service connections shall be looked into.

2.27.23 As regards the measures suggested by the stakeholder for improving the quality of transmission and distribution of power:

2.27.23.1 After formation of Telangana State, the Govt. of Telangana State had intended to give continuous quality and reliable power supply to the consumers for 9/24 hrs for which the TS Govt. and TSSPDCL has taken many types of infrastructure

development activities such as, addition of new 33/11 kV substations, enhancement of PTRs, erection of additional PTRs, extension of bays, bifurcation of 11 kV feeders carrying more than 150 A and bifurcation of 33 kV feeders carrying more than 250 A. In addition to these works, 76,380 DTRs have been added in different capacities. By these measures, SPDCL solved the overload issues and made provisions for additional loads at substations, feeders and on DTRs thereby no need of extra erection of PTRs in the substations. If any emergency arises on failure of PTR, supply will be extended from 2<sup>nd</sup> PTR or otherwise nearby substation feeders.

- 2.27.23.2 Except agriculture services, all services viz. industry, domestic, non-domestic are provided with individual meters and the connected load and power consumed particulars are available consumer wise, category wise in the Billing database. Accordingly, the billing and accounting is being carried out.
- 2.27.23.3 Four nos. of agriculture feeders have been segregated till the end of September, 2017. Huge upfront cost is required to segregate the feeders. Since SPDCL is providing 24 hrs power supply to agricultural sector there is no need to move ahead with feeder segregation. However, SPDCL is assessing the agriculture consumption based on robust ISI methodology approved by the Commission.
- 2.27.23.4 UDAY MoU specifies an action plan regarding DTR metering in urban area and there is no specification regarding the metering of agricultural connections.
- 2.27.23.5 Transportation of materials, poles, erecting DTRs will be done by the engaged contractors only. The transportation of failed DTRs is being done at the cost of DISCOM and instructions are issued to the field officers to pay the transport charges if the consumer transported the transformer.
- 2.27.23.6 The Operation AE/ADEs are equally balancing both technical and bill collection duties. The bill collection is also one of the important aspects for improving the DISCOM revenue which is essential for survival of the Company.
- 2.27.23.7 Upon payment of all the dues with reconnection fee at regular collection counters and EROs of SPDCL, supply will be restored immediately.
- 2.27.23.8 SPDCL has developed and implemented comprehensive Software Applications for computerization in distribution of power so as to provide quality and reliable power in the domestic, agriculture sectors and enhance consumer satisfaction. Some of the major Software Applications developed and implemented in SPDCL are as follows: (1) Energy Billing System (EBS), (2) HT Billing System, (3) LT Consumer Service Centres (CSC), (4) HT CSC, (5) Monitoring and Tracking System (MATS), (6) Energy Audit System (EAUDIT), (7) Online Bill Payments,

Online Bill Enquiry (through Company's website) and Billing details through SMS, (8) Consumer Analysis Tool (CAT), (9) ERP Package (SAP), (10) Web-portal, (10) SPDCL Mobile App. The implementation of the above applications has created transparency in the work aspect and enabled avoiding of human errors and manipulation of data thus enhancing the data integrity. It has enabled the DISCOM to provide better service to the consumer and enhanced consumer satisfaction, improvement in management efficiency, improvement in the quality of Customer service, easy monitoring of performance, easy reporting, minimization of human errors, efficient outage management, asset and work management, Distribution Automation, online billing, collections, arrears, exemptions details are available online for monitoring purpose at various levels, speedy disposal of consumer grievances in ERO's and better security.

- 2.27.24 As regards the requirement of paying the service charges in the form of Demand Draft, the existing procedure is being continued as handling of cash in CSCs/ICSCs is difficult.
- 2.27.25 As regards the prepaid meters, the prepaid meters are being issued to government offices in accordance with the conditions stipulated in the UDAY MoU. The issue of prepaid meters to all affordable consumers shall be examined.
- 2.27.26 As regards the replacement of meters, such replacement is only carried out to upkeep with the latest technological advancements from time to time.
- 2.27.27 As regards the relocation of the electric lines passing over the houses, such houses have been constructed much after the laying of the electric lines. For relocating such electric lines, the expenditure of Rs. 360 crore has been estimated. With limited resources available to the DISCOM, it is not feasible to relocate such electric lines passing over the houses.

#### ***Commission's Views***

- 2.27.28 The Commission has taken note of the stakeholders' submissions and replies of the DISCOMs. As the issues raised mostly do not relate to the tariff determination, the same are not being examined in detail now. The Commission will in appropriate case examine and issue suitable orders at appropriate time.

#### **2.28 OTHERS**

- 2.28.1 The phrase ARR is not found in the standard terminology of ICAI, ICWA or ICS.
- 2.28.2 While the felling of the trees in the way of live wires is being done during pre-

monsoon and post-monsoon period, greenery is being developed at transformer structures which is interfering with the LT lines. The tree felling at transformer structures may be undertaken on war footing to minimize the transformer failures and incidental cost of repairs of failed transformers. Further, the PVC plastic piping may be provided on the live wires to the extent possible and minimize the tree felling.

- 2.28.3 The premises of the DISCOMs at many places, particularly in Nalgonda, Kodad, Alair Kolanupaka, Konda Mallepally, Suryapet, are being encroached. In view of the measures taken for avoiding encroachments in Nalgonda such as construction of shops on the road side, measures should be taken for protection of premises from encroachment and for realization of income.
- 2.28.4 The obsolete material and equipment lying idle at the premises of the DISCOMs may be disposed of in a time bound manner at the earliest so that income can be realized.
- 2.28.5 The mechanism to get auto debit of the CC bills from the savings bank account of the consumers, at their option, need to be formulated to save time of consumers and reduction of the expenditure of the DISCOMs in collection of cc bills.
- 2.28.6 The interruption in power supply may be informed to the consumers of the area by SMS facility.
- 2.28.7 Purchase of sub-standard equipment such as electric meters of Chinese make, capacitors to agricultural services, mobile phones provided to the employees is resulting in financial burden on the DISCOMs.
- 2.28.8 Bank Guarantee should also be accepted in place of complete cash deposits towards Additional Consumption Deposits. To begin with at least one month's consumption may be accepted in Bank Guarantee from consumers whose monthly bills exceed Rs. 10,00,000.
- 2.28.9 Tariffs must be telescopic. Agricultural motors must be provided with neutral wire. The tariff figures should be in whole numbers and decimals are not required. Responsibility of electricity supply to remote villages may be given to private companies wherein electricity can be supplied at lower tariffs by installation of solar generators.
- 2.28.10 Stringent action should be taken on the consumers using unauthorised power supply to fencing of farm lands due to which loss of life is occurring.
- 2.28.11 2 LED bulbs may be issued free of cost to the consumers in the economically weaker

sections.

***Replies of Licensees***

- 2.28.12 The term Aggregate Revenue Requirement (ARR) has been defined in the Regulation No. 4 of 2005 which means the revenue required to meet the costs pertaining to the licensed business, for a financial year, which would be permitted to be recovered through tariffs and charges by the Commission.
- 2.28.13 As regards the pre-monsoon and post-monsoon activities, the DISCOMs are following the standard operation and maintenance practices as per the Indian Electricity Rules and the CEA Rules. There is minimum clearance to be maintained between the tree branches and the live power lines. Pre-monsoon and post-monsoon works are taken up by the DISCOMs in order to prevent any interruptions/breakdowns in supply to consumers. Such works are also important from the perspective of preventing accidents.
- 2.28.14 As regards the prevention of encroachments, it is proposed to construct compound wall for all the assets belonging to the DISCOM to safeguard the boundaries and to avoid encroachment.
- 2.28.15 As regards the sale of scrap, instructions have been issued to all the circles to submit the survey reports of the scrap material in the concerned stores to P&MM wing, corporate office for conducting e-auction with a time bound period. For computers, printers etc., instructions have been issued to circle offices for conducting auction.
- 2.28.16 As regards the auto debit of CC bills from the savings bank accounts of the consumers, the facility of auto debit of CC bills from the consumers savings bank accounts at their options within a week's time from the date of issue of bills and before due date of payment has already been implemented in SPDCL since 2003 through the service providers. Such services are called as ECS and NACH services. Generally, this type of services will be provided by the Bankers as per the rules and regulations of RBI duly associated with their service providers. Presently, SPDCL has appointed two (2) companies for making collections of LT electricity bills through ECS and NACH Services viz., M/s India Ideas.com Ltd. and M/s Tech Process Pvt. Ltd. These two (2) companies have been providing ECS/NACH services duly accompanying with around 70-80 savings bank accounts and posting payment transaction in to the consumers ledger. This information will be sent to the consumers through SMS. In order to educate the consumers a message box will be displayed on SPDCL website as well as service providers' websites.

- 2.28.17 As regards the procurement of sub-standard equipment, meters of Chinese make were procured during 2002 when electrostatic meters were introduced for the first time. Later, the procurement of electrostatic meters was streamlined and is being procured as per IS standards. As a part of tender, the sample electrostatic meters will be type tested before finalisation of tender. Further, the meters will be sent to NABL accredited laboratory for acceptance tests before taking them to stock. At present, no capacitors are procured for agricultural services by the DISCOM. No cell phones are being provided to the employees of the DISCOM.
- 2.28.18 As regards the bank guarantee in place of cash deposits, as per Clause 4(2) of the Regulation No. 6 of 2004, the HT consumer shall at all times maintain with the Licensee an amount equivalent to consumption charges (demand charges and energy charges) of two months as security during the period of agreement of supply. As per Clause 4(5) of the Regulation No. 6 of 2004, the amount payable towards security shall be in the form of cash/Demand Draft drawn in favour of the Licensee. As per the above referred Clauses of Regulation No. 6 of 2004, the Licensees are collecting two months consumption charges in cash/Demand Draft towards the security deposit from all the consumers. Hence, the proposal of the stakeholder to accept bank guarantee is not agreeable.
- 2.28.19 As regards the issue of 2 LED bulbs free of cost, considering the limited resources of the DISCOM, such a proposal may not be feasible.

#### ***Commission's Views***

- 2.28.20 The Commission has taken note of the stakeholders' submissions and replies of the DISCOMs. As the issues raised mostly do not relate to the tariff determination, the same are not being examined in detail now. The Commission will in appropriate case examine and issue suitable orders at appropriate time.

### 3 AGGREGATE REVENUE REQUIREMENT FOR FY 2018-19

#### 3.1 SALES PROJECTIONS FOR FY 2018-19

##### *DISCOMs' submissions*

- 3.1.1 SPDCL and NPDCL have projected the consumer category wise sales of 36434.26 MU and 19249.11 MU respectively for FY 2018-19. The approach adopted by the DISCOMs in projecting the consumer category wise sales for FY 2018-19 is as under:
- The trend method and end-user method have been adopted for projecting the sales for various consumer categories.
  - In the trend method, the actual consumer category wise sales from FY 2011-12 to H1 of FY 2017-18 have been taken into consideration for projecting the sales for FY 2018-19. The category wise Compound Annual Growth Rate (CAGR) trend during the last 5 years, 4 years, 3 years, 2 years, 1 year and growth rate of first half of FY 2017-18 over first half of FY 2016-17 have been considered for projecting the sales for H2 of FY 2017-18. The sales for ensuing year FY 2018-19 have been projected considering the revised estimates for FY 2017-18 applying the appropriate growth rates based on CAGR. For the categories in which negative growth rates have been observed, the nominal growth rate of 2% has been considered.
  - Estimation of additional energy requirement for H2 of FY 2017-18 and FY 2018-19 was made by considering the upcoming lift irrigation projects based on information received from the Irrigation Department, Metro Rail Limited, new traction loads as per the information received from South Central Railways, upcoming loads under Mission Bhageeratha project and major industrial loads yet to be released in current and ensuing years.
  - The sales for LT V (Agriculture) category have been projected considering the 24 hours power supply from 01.01.2018 and the ISI methodology approved by the Commission for estimation of agricultural sales.
- 3.1.2 The consumer category wise sales projected by the DISCOMs for FY 2018-19 are as shown in the Table given below:

**Table 3.1: Consumer category wise sales projected by the DISCOMs for FY 2018-19 (MU)**

Consumer Category		SPDCL	NPDCL	Total
<b>LT Category</b>		<b>22334.17</b>	<b>11602.49</b>	<b>33936.66</b>
Category I (A&B)	Domestic	8322.51	3194.61	<b>11517.12</b>
Category II (A, B & C)	Non-Domestic/Commercial	2572.94	682.10	<b>3255.04</b>
Category III (A&B)	Industrial	879.59	264.33	<b>1143.92</b>

<b>Consumer Category</b>		<b>SPDCL</b>	<b>NPDCCL</b>	<b>Total</b>
Category IV (A&B)	Cottage Industries & Dhobighats	9.35	7.93	<b>17.28</b>
Category V (A&B)	Irrigation & Agriculture	9765.40	7087.81	<b>16853.21</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	706.34	317.10	<b>1023.44</b>
Category VII (A&B)	General Purpose	75.04	48.61	<b>123.66</b>
Category VIII (A&B)	Temporary Supply	3.01	0.00	<b>3.01</b>
<b>HT Category at 11 kV</b>		<b>5356.68</b>	<b>1989.84</b>	<b>7346.52</b>
HT-I	Industry Segregated	3532.34	692.85	<b>4225.19</b>
HT-I(B)	Ferro Alloys	0.17	0.00	<b>0.17</b>
HT-II	Others	1549.56	131.22	<b>1680.78</b>
HT-III	Airports, Railways and Bus Stations	5.03	7.73	<b>12.76</b>
HT-IV(A)	Lift Irrigation & Agriculture	40.55	27.15	<b>67.70</b>
HT-IV(B)	CP Water Supply Schemes	91.47	145.90	<b>237.37</b>
HT-VI	Townships and Residential Colonies	100.30	13.07	<b>113.38</b>
HT	Temporary Supply	37.26	0.00	<b>37.26</b>
HT	RESCOs	0.00	971.90	<b>971.90</b>
<b>HT Category at 33 kV</b>		<b>4215.42</b>	<b>769.75</b>	<b>4985.17</b>
HT-I	Industry Segregated	3219.27	183.98	<b>3403.25</b>
HT-I(B)	Ferro Alloys	0.00	32.24	<b>32.24</b>
HT-II	Others	672.20	18.51	<b>690.72</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	45.04	44.67	<b>89.71</b>
HT-IV(B)	CP Water Supply Schemes	220.71	448.54	<b>669.25</b>
HT-VI	Townships and Residential Colonies	58.20	41.80	<b>100.00</b>
HT	Temporary Supply	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	<b>0.00</b>
<b>HT Category at 132 kV</b>		<b>4527.98</b>	<b>4887.03</b>	<b>9415.01</b>
HT-I	Industry Segregated	2151.38	695.18	<b>2846.55</b>
HT-I(B)	Ferro Alloys	141.75	0.00	<b>141.75</b>
HT-II	Others	163.11	3.03	<b>166.15</b>
HT-III	Airports, Railways and Bus Stations	63.30	0.00	<b>63.30</b>
HT-IV(A)	Lift Irrigation & Agriculture	1717.45	3707.68	<b>5425.13</b>
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	<b>0.00</b>
HT-V(A)	Railway Traction	171.00	368.47	<b>539.47</b>
HT-V(B)	HMR	120.00	0.00	<b>120.00</b>

Consumer Category		SPDCL	NPDCL	Total
HT-VI	Townships and Residential Colonies	0.00	112.67	<b>112.67</b>
HT	Temporary Supply	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	<b>0.00</b>
<b>Total</b>		<b>36434.26</b>	<b>19249.11</b>	<b>55683.37</b>

3.1.3 SPDCL and NPDCL have projected the sales of 36434.26 MU and 19249.11 MU respectively for FY 2018-19.

#### ***Commission's Analysis and Ruling***

3.1.4 The Commission in its Tariff Order for FY 2017-18 dated 26.08.2017 had approved the sales of 31757.65 MU and 13367.40 MU for SPDCL and NPDCL respectively. As against the same, the revised estimated sales for FY 2017-18 are 33025.84 MU and 14128.00 MU as submitted by SPDCL and NPDCL respectively. The approach adopted by the Commission for projecting the sales for FY 2018-19 is as under:

3.1.5 The Commission has prudently scrutinised the sales projections submitted by the DISCOMs. The Commission has taken due cognizance of various submissions made by the Licensees and adopted the trend method for projecting the sales for all the consumer categories except LT V, HT I(A), HT IV, and HT V(B). For projecting the sales using the trend method, the Commission has considered the revised estimated sales for FY 2017-18 which have been arrived at as the minimum of the approved and revised estimated sales as projected by the DISCOMs. The 3 years CAGR computed for the respective consumer category has been applied on the base year sales to project the sales for FY 2018-19. In the case of consumer categories for which the 3 years CAGR has been observed to be on the negative side, the Commission has considered the nominal growth rates.

3.1.6 **LT V sales:** The approach adopted by the Commission for projecting the sales for LT V category is as detailed below:

3.1.7 The Commission in its Retail Supply Tariff Order for FY 2016-17 directed the DISCOMs to follow the report of the Indian Statistical Institute (ISI) in estimation of agricultural sales. The DISCOMs in their filings submitted that the agricultural sales for FY 2018-19 have been projected complying with ISI methodology. The Commission sought the detailed write-up on how the above stated Commission's directive has been complied while projecting the agricultural sales for FY 2018-19. In reply, the DISCOMs submitted the following:

- 3.1.8 The 24 hours power supply to agricultural services was implemented on pilot basis in Nalgonda, Medak and Siddipet Circles under SPDCL and Karimnagar Circle under NPDCL from mid of July, 2017. It has been observed that the agricultural consumption during the period August-September, 2017 was 33.36% and 39.33% higher than the agricultural consumption during the period August-September, 2016 for SPDCL and NPDCL respectively. These growth rates are considered for projecting the agricultural sales for FY 2018-19.
- 3.1.9 On account of the new lift irrigation schemes, the agricultural consumption is expected to reduce to certain extent. Further, as 24 hours power supply is being extended to agricultural services, it is expected that the agriculture consumers will judiciously pump water only as per the requirement resulting in reduction in electricity consumption. Both these factors have been taken into consideration in projecting the agricultural sales for FY 2018-19.
- 3.1.10 The Commission in its Tariff Order for FY 2017-18 had approved the sales of LT V category as 6824.00 MU and 4941.00 MU for SPDCL and NPDCL respectively. In comparison to the same, SPDCL and NPDCL have projected the sales of 9765.40 MU and 7087.81 MU respectively for FY 2018-19. As can be observed, the projected sales for FY 2018-19 are significantly higher than the approved sales for FY 2017-18. It is pertinent to mention that the agricultural services are not metered individually. The Commission in the past had highlighted some discrepancies in the estimation of the agricultural consumption by the DISCOMs which have been recorded in the Tariff Order for FY 2016-17. Although the increase in agricultural consumption on account of 24 hours power supply cannot be ruled out, it cannot be the justifiable reason in entirety. Some of the stakeholders in the Public Hearings stated that the power supply to the agricultural services should be rationed appropriately in order to avoid indiscriminate usage of ground water. Some of the stakeholders also stated that the power supply to agricultural services during day time would be adequate. Further, both the DISCOMs and Irrigation & CAD department stated that the dependence on pumping water for agricultural needs would reduce with the operationalisation of the new lift irrigation schemes under execution in the State.
- 3.1.11 After due consideration of the various submissions in this regard, the Commission has approved the agricultural sales for FY 2018-19 considering the connected load data as submitted by the DISCOMs and operational period of 180 days and 10 hours in each day. Accordingly, the Commission has approved the sales of LT V category as 8272.34 MU and 5989.69 MU for SPDCL and NPDCL respectively for FY 2018-19.

- 3.1.12 **HT I(A) sales:** The approach adopted by the Commission for projecting the sales for HT I(A) category as detailed below:
- 3.1.13 SPDCL submitted that the new industrial loads amounting to 100 MVA at EHT level on account of “Pharma City” and “Amazon Data Centre”. In reply to a query of the Commission in this regard, SPDCL submitted that no application has been received in respect of “Pharma City” and “Amazon Data Centre” and it is most likely that the anticipated load of 100 MVA will be added during FY 2018-19. The 3-year CAGR of HT I(A) category for SPDCL at EHT level is on the negative side. Considering the new load addition anticipated in FY 2018-19, the Commission has considered the growth rate of 7% over and above the revised estimated sales for FY 2017-18.
- 3.1.14 **HT IV sales:** The DISCOMs submitted that the upcoming loads on account of new lift irrigation projects and Mission Bhageeratha have been considered for projecting the sales for this category. The DISCOMs also submitted that the only 50% of the load on account of the upcoming lift irrigation projects has been considered for projections. The Commission has reworked the sales for this category considering the projected load for FY 2018-19 and 16 hours of operation in a day for a period of 120 days in the year.
- 3.1.15 **HT V(B) sales:** SPDCL submitted that the 20 MVA load is expected to be added in FY 2018-19 on account of operationalisation of new HMR stations. Accordingly, SPDCL has projected the sales of 120 MU for FY 2018-19. After perusal of the submissions, the Commission finds it prudent to approve the sales of 120 MU, the sale as projected by SPDCL for FY 2018-19.
- 3.1.16 Based on the above, the consumer category wise sales projection for FY 2018-19 approved by the Commission is as shown in the Table below:

**Table 3.2: Category wise sales projections approved by the Commission for FY 2018-19 (MU)**

Consumer Category		SPDCL	NPDCL	Total
<b>LT Category</b>		<b>20779.61</b>	<b>10443.58</b>	<b>31223.19</b>
Category I (A&B)	Domestic	8293.93	3179.67	<b>11473.60</b>
Category II (A, B & C)	Non-Domestic/Commercial	2557.13	682.10	<b>3239.23</b>
Category III (A&B)	Industrial	872.39	251.58	<b>1123.97</b>
Category IV (A&B)	Cottage Industries & Dhobighats	9.24	7.93	<b>17.18</b>
Category V (A&B)	Irrigation & Agriculture	8272.34	5989.69	<b>14262.02</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	697.36	283.99	<b>981.35</b>
Category VII (A&B)	General Purpose	75.04	48.61	<b>123.66</b>

Consumer Category		SPDCL	NPDCL	Total
Category VIII (A&B)	Temporary Supply	2.17	0.00	2.17
<b>HT Category at 11 kV</b>		<b>5111.63</b>	<b>1590.86</b>	<b>6702.48</b>
HT-I	Industry Segregated	3333.26	533.82	3867.08
HT-I(B)	Ferro Alloys	0.00	0.00	0.00
HT-II	Others	1543.57	128.90	1672.47
HT-III	Airports, Railways and Bus Stations	5.03	7.73	12.76
HT-IV(A)	Lift Irrigation & Agriculture	40.55	27.15	67.70
HT-IV(B)	CP Water Supply Schemes	66.91	56.26	123.17
HT-VI	Townships and Residential Colonies	89.54	12.18	101.72
HT	Temporary Supply	32.76	0.00	32.76
HT	RESCOs	0.00	824.81	824.81
<b>HT Category at 33 kV</b>		<b>4074.23</b>	<b>388.97</b>	<b>4463.20</b>
HT-I	Industry Segregated	3219.27	183.98	3403.25
HT-I(B)	Ferro Alloys	0.00	0.00	0.00
HT-II	Others	672.20	18.51	690.72
HT-III	Airports, Railways and Bus Stations	0.00	0.00	0.00
HT-IV(A)	Lift Irrigation & Agriculture	45.04	44.67	89.71
HT-IV(B)	CP Water Supply Schemes	86.54	100.00	186.54
HT-VI	Townships and Residential Colonies	51.18	41.80	92.98
HT	Temporary Supply	0.00	0.00	0.00
HT	RESCOs	0.00	0.00	0.00
<b>HT Category at 132 kV</b>		<b>4135.12</b>	<b>3196.80</b>	<b>7331.93</b>
HT-I	Industry Segregated	1872.48	695.18	2567.66
HT-I(B)	Ferro Alloys	138.35	0.00	138.35
HT-II	Others	86.47	3.03	89.51
HT-III	Airports, Railways and Bus Stations	54.57	0.00	54.57
HT-IV(A)	Lift Irrigation & Agriculture	1717.45	2025.04	3742.49
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	0.00
HT-V(A)	Railway Traction	145.80	368.47	514.27
HT-V(B)	HMR	120.00	0.00	120.00
HT-VI	Townships and Residential Colonies	0.00	105.09	105.09
HT	Temporary Supply	0.00	0.00	0.00
HT	RESCOs	0.00	0.00	0.00

Consumer Category	SPDCL	NPDCL	Total
<b>Total</b>	<b>34100.59</b>	<b>15620.20</b>	<b>49720.79</b>

3.1.17 The monthly consumer category wise sales approved by the Commission for FY 2018-19 are enclosed at **Annexures 3 to 5**.

### **3.2 ENERGY REQUIREMENT FOR FY 2018-19**

#### ***DISCOMs' submissions***

3.2.1 **Distribution losses:** The voltage wise distribution losses as approved by the Commission for FY 2018-19 vide the MYT Order for the Control Period from FY 2014-15 to FY 2018-19 have been considered.

3.2.2 **Transmission losses:** The TSTRANSCO losses of 3.09% as approved by the Commission for FY 2018-19 has been considered. The losses external to TSTRANSCO system are estimated to be 2.47%. This is applicable for procurement of power from central generating stations. The external losses for procurement of power under the long-term PPA with CSPDCL is considered as 3.22%, as approved by the Chhattisgarh State Electricity Regulatory Commission (CSERC). The external losses have not been considered for bilateral/inter-state purchases as the power purchase from such sources is at TSTRANSCO periphery.

3.2.3 Accordingly, the energy requirement for FY 2018-19 has been projected as 42193.22 MU and 22097.62 MU for SPDCL and NPDCL respectively.

#### ***Commission's Analysis and Ruling***

3.2.4 **Distribution losses:** The Commission has considered the voltage wise loss trajectory approved in the Distribution & Wheeling Tariff Order for the 3<sup>rd</sup> MYT Control Period from FY 2014-15 to FY 2018-19.

3.2.5 **Transmission losses:** The Commission has considered the approved losses of 3.09% for FY 2018-19 as per the MYT Order for TSTRANSCO dated 01.05.2017. The Commission has considered the PGCIL losses applicable for the procurement of energy from the respective generating central generating stations. The Commission has considered the Chhattisgarh State Power Transmission Company Ltd. (CSPTCL) losses of 3.22% as approved by CSERC for the power procurement under the long-term PPA with CSPDCL.

3.2.6 The energy requirement for each DISCOM has been computed by grossing up the approved sales at a particular voltage level with the approved percentage loss for that voltage level for arriving at the energy input for the next higher voltage level of

Distribution Network. Thereafter, the losses external to the Distribution system have been considered for arriving at the total energy requirement for FY 2018-19.

3.2.7 The energy requirement approved by the Commission for FY 2018-19 is as shown in the Tables given below:

**Table 3.3: SPDCL – Energy requirement approved by the Commission for FY 2018-19 (MU)**

Voltage	Loss (%)	Sales (MU)	LT	11 kV	33 kV	132 kV
LT	5.00%	20779.61	21873.27	22844.15	23793.51	24552.17
11 kV	4.25%	5111.63		5338.51	5560.37	5737.67
33 kV	3.99%	4074.23			4243.54	4378.85
132 kV	3.09%	4135.12				4266.97
<b>Total</b>		<b>34100.59</b>	<b>21873.27</b>	<b>28182.66</b>	<b>33597.43</b>	<b>38935.66</b>
<b>% Loss upto said voltage</b>			5.00%	8.13%	10.81%	12.42%
CGS and CSPDCL (MU)		16175.73				
ISTS Loss (%)	3.78%					
Distribution Loss (MU)		3631.96				
Transmission Loss (MU)		1203.11				
PGCIL & CSPTCL Loss (MU)		611.48				
<b>Total Power Purchase requirement</b>		<b>39547.14</b>				

**Table 3.4: NPDCL – Energy requirement approved by the Commission for FY 2018-19 (MU)**

Voltage	Loss (%)	Sales (MU)	LT	11 kV	33 kV	132 kV
LT	5.00%	10443.58	10993.24	11469.21	11947.09	12328.03
11 kV	4.15%	1590.86		1659.73	1728.89	1784.02
33 kV	4.00%	388.97			405.18	418.09
132 kV	3.09%	3196.80				3298.73
<b>Total</b>		<b>15620.20</b>	<b>10993.24</b>	<b>13128.94</b>	<b>14081.16</b>	<b>17828.87</b>
<b>% Loss upto said voltage</b>			5.00%	8.34%	11.77%	12.39%
CGS and CSPDCL (MU)		6752.31				
ISTS Loss (%)	3.78%					
Distribution Loss (MU)		1657.76				
Transmission Loss (MU)		550.91				
PGCIL & CSPTCL Loss (MU)		255.25				
<b>Total Power Purchase requirement</b>		<b>18084.13</b>				

3.2.8 The total energy requirement approved by the Commission for FY 2018-19 is as

shown in the Table below:

**Table 3.5: Total energy requirement approved for FY 2018-19**

Particulars	Units	Approved for FY 2018-19		
		SPDCL	NPDCL	Total
<b>Total Sales</b>	<b>MU</b>	<b>34100.59</b>	<b>15620.20</b>	<b>49720.79</b>
Sales (LT, 11 kV, 33 kV)	MU	29965.46	12423.40	42388.86
EHT Sales	MU	4135.12	3196.80	7331.93
<b>Total Losses</b>	<b>MU</b>	<b>5446.55</b>	<b>2463.92</b>	<b>7910.48</b>
Distribution System Losses	MU	3631.96	1657.76	5289.72
Transmission System Losses	MU	1814.59	806.16	2620.75
<b>Total Losses</b>	<b>%</b>	<b>13.77%</b>	<b>13.62%</b>	<b>13.73%</b>
Transmission Losses	%	4.59%	4.46%	4.55%
Distribution System Losses	%	10.81%	11.77%	11.09%
<b>Input to Distribution System</b>	<b>MU</b>	<b>33597.43</b>	<b>14081.16</b>	<b>47678.59</b>
<b>Power Purchase Requirement</b>	<b>MU</b>	<b>39547.14</b>	<b>18084.13</b>	<b>57631.27</b>

### 3.3 ENERGY AVAILABILITY FOR FY 2018-19

#### *DISCOMs' submissions*

3.3.1 The DISCOMs have projected the energy availability for FY 2018-19 from the following long-term and short-term sources of power:

- i. TSGENCO – thermal generating stations
- ii. Hydel generating stations (TSGENCO and inter-State)
- iii. Central Generating Stations (NTPC, NLC & NPCIL)
- iv. APGPCL
- v. Other long-term sources (TPCIL Unit 1, TPCIL Unit 2, SCCL TPP and CSPDCL)
- vi. Non-Conventional Energy sources
- vii. Market purchase

3.3.2 For projecting the energy availability, the DISCOMs have considered the actual performance of the respective generating station up to September, 2017 and projected performance as estimated for FY 2018-19.

- 3.3.3 **TSGENCO – thermal generating stations:** The entire capacity of thermal generating stations of TSGENCO has been considered for the TSDISCOMs. The energy availability from the thermal generating stations of TSGENCO has been projected considering the PLF of 70% and maintenance schedules of the respective generating stations. One Unit of 60 MW of KTPS A would be phased out of operation and no energy has been projected from the same during FY 2018-19. The expected COD of KTPS VII (800 MW) has been considered as 01.10.2018. The expected COD of Bhadradri TPS Unit 1 (270 MW) has been considered as 01.01.2019. Accordingly, the energy availability from the thermal generating stations of TSGENCO has been projected as 18532.56 MU for FY 2018-19.
- 3.3.4 **Hydel generating stations (TSGENCO and inter-State):** The entire capacity of hydel generating stations of TSGENCO has been considered for the TSDISCOMs. The major hydel projects in the state of Telangana serve as multi-purpose projects. In such projects, meeting the irrigation needs is of primary importance and generation of power is subject to meeting the irrigation needs. Due to a good monsoon in current year and based on the estimated inflows of water, 3139.56 MU has been projected from hydel generating stations for FY 2018-19. For Pulichintala, commissioning of Unit 4 is expected on 01.01.2018. For Machkund and Tungabhadra, availability has been projected based on actuals of FY 2016-17.
- 3.3.5 **Central Generating Stations (NTPC, NLC & NPCIL):** The energy availability from Central Sector Generating Stations of NTPC, NLC and NPCIL has been projected considering the normative performance parameters for the respective generating stations and the share allocation to Telangana State. The energy availability from new generating stations has been projected considering the expected CODs of the respective Units. Bundled power (coal) has been considered from JNNSM Phase I (45.81 MW) and JNNSM Phase II (200 MW) for TSDISCOMs. Accordingly, the energy availability from Central Generating Stations including bundled power (coal) has been projected as 17887.11 MU for FY 2018-19.
- 3.3.6 **APGPCL:** The energy availability from APGPCL has been projected as 58.17 MU for FY 2018-19.
- 3.3.7 **Other long-term sources:**
- 3.3.7.1 The licensees have signed a Power Purchase Agreement with M/s. Thermal Power Tech Corporation India Limited (TPCIL) for a contracted capacity of 500 MW (Unit 1) under long term basis through Case-I bidding route for a period of 25 years.

Consequent to bifurcation of the state, TSDISCOMs have 53.89% of share i.e., 269.45 MW. TPCIL is supplying the above power from 20.04.2015 and the energy availability has projected as 1986.26 MU for FY 2018-19 considering 90% PLF.

- 3.3.7.2 Also, the licensees have signed a Power Purchase Agreement with M/s. Thermal Powertech Corporation India Limited (TPCIL) for a contracted capacity of 570 MW (Unit 2) under long term DBFOO basis for a period of 8 years. TPCIL is supplying the above power from 30.03.2016 and the energy availability from this plant has been projected as 4201.78 MU for FY 2018-19 considering 90% PLF.
- 3.3.7.3 The energy availability from SCCL TPP has been projected as 8421.43 MU for FY 2018-19 considering the PLF of 85%.
- 3.3.7.4 The energy availability from CSPDCL has been projected as 6909.89 MU for FY 2018-19 considering the PLF of 85%.
- 3.3.8 **Non-Conventional Energy sources:** The energy availability from non-conventional energy sources has been projected considering the existing installed capacity and the new capacity under implementation expected to achieve COD by March, 2018. Accordingly, the energy availability from Non-Conventional Energy sources including bundled power (solar) has been projected as 6052.78 MU for FY 2017-18.
- 3.3.9 The DISCOMs have projected the energy availability of 383.46 MU from the short-term market.
- 3.3.10 The DISCOMs have projected the total energy availability of 67573.00 MU for FY 2018-19 from long-term and short-term sources of power.

### ***Commission's Analysis and Ruling***

- 3.3.11 The Commission has examined the submissions of the DISCOMs regarding the projections of energy availability for FY 2018-19 and considered both the existing and new generating stations (expected to achieve COD in FY 2018-19). The monthly energy availability during the previous years from existing generating stations has been considered as basis for projections. For new stations, the energy availability is projected from the expected COD of the respective station/unit considering the normative performance parameters. The assumptions on projection of the quantum of energy available from various sources for FY 2018-19 are detailed in the following paragraphs.
- 3.3.12 **TSGENCO – thermal generating stations:** The allocated share to Telangana State from thermal generating stations of TSGENCO is as shown below:

**Table 3.6: Allocated share to Telangana State from thermal generating stations of TSGENCO**

S. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
1	KTPS A	660.00	100%	660.00
2	KTPS B			
3	KTPS C			
4	KTPS V	500.00	100%	500.00
5	KTPS VI	500.00	100%	500.00
6	RTS B	62.50	100%	62.50
7	Kakatiya TPP Stage I	500.00	100%	500.00
8	Kakatiya TPP Stage II	600.00	100%	600.00
9	KTPS VII	800.00	100%	800.00
	<b>Total Thermal</b>	<b>3622.50</b>		<b>3622.50</b>

3.3.13 The energy availability from these stations have been projected considering the monthly average of the actual generation during the preceding 3 years. The energy availability from KTPS VII (800 MW) has been projected from the expected COD of 01.10.2018 considering 85% PLF. based on the physical progress of works as per the CEA monthly reports, it appears that Bhadradri TPS Unit 1 (270 MW) may not achieve COD in FY 2018-19 and hence the energy availability from this station has not been considered in this Order,

3.3.14 The energy availability projections approved by the Commission from TSGENCO thermal stations is as shown below:

**Table 3.7: Energy availability projections from thermal generating stations of TSGENCO approved by the Commission (MU)**

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
1	KTPS A	3654.55	3360.51
2	KTPS B		
3	KTPS C		
4	KTPS V	2790.06	2792.97
5	KTPS VI	2836.05	2483.41
6	RTS B	348.76	386.44
7	Kakatiya TPP Stage I	2836.05	2605.08
8	Kakatiya TPP Stage II	3486.04	4233.05
9	KTPS VII	2262.62	2814.30

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
10	Bhadradri TPS Unit 1	318.43	0.00
	<b>Total Thermal</b>	<b>18532.56</b>	<b>18675.77</b>

3.3.15 **Hydel generating stations (TSGENCO and inter-State):** The allocated share to Telangana State from hydel generating stations is as shown below:

**Table 3.8: Allocated share to Telangana State from hydel generating stations**

S. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
	<b>Hydel-Inter State</b>			
1	Machkund PH	120.00	37.72%	45.27
2	Tungabharda PH	72.00	43.11%	31.04
3	Priyadarshini Jurala HEP	234.00	50.00%	117.00
	<b>Sub-total</b>	<b>426.00</b>		<b>193.31</b>
	<b>Hydel-TSGENCO</b>			
1	Nagarjunasagar HES	815.60	100.00%	815.60
2	Nagarjunasagar Left Canal PH	60.00	100.00%	60.00
3	Srisaïlam Left Bank HES	900.00	100.00%	900.00
4	Lower Jurala HEP	240.00	100.00%	240.00
5	Pulichintala	120.00	100.00%	120.00
6	Pochampad PH	36.00	100.00%	36.00
7	Nizamsagar HES	10.00	100.00%	10.00
8	Singur HES	15.00	100.00%	15.00
9	Paleru	2.00	100.00%	2.00
10	Peddapalli MHS	9.16	100.00%	9.16
	<b>Sub-total</b>	<b>2207.76</b>		<b>2207.76</b>
	<b>Total Hydel</b>	<b>2633.76</b>		<b>2401.07</b>

3.3.16 The energy availability from existing hydel generating stations has been projected considering the monthly average of the actual generation during the previous 5 years and share allocation to Telangana State in the respective generating stations. The energy availability from new stations has been projected considering the expected COD of the respective station/unit. The energy availability projections approved by the Commission is as shown in the Table below:

**Table 3.9: Energy availability from hydel generating stations approved by the Commission (MU)**

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
<b>Hydel-Inter State</b>			
1	Machkund PH	94.43	297.51
2	Tungabharda PH	4.39	85.79
3	Priyadarshini Jurala HEP	93.02	137.86
<b>Sub-total</b>		<b>191.84</b>	<b>521.17</b>
<b>Hydel-TSGenco</b>			
1	Nagarjunasagar HES	1311.38	803.91
2	Nagarjunasagar Left Canal PH	60.58	50.02
3	Srisaillam Left Bank HES	1299.76	1357.04
4	Lower Jurala HEP	129.60	112.77
5	Pulichintala	9.71	9.71
6	Pochampad PH	66.70	61.06
7	Nizamsagar HES	23.46	23.46
8	Singur HES	26.14	26.14
9	Paleru	20.39	20.39
10	Peddapalli MHS		
<b>Sub-total</b>		<b>2947.72</b>	<b>2464.50</b>
<b>Total Hydel</b>		<b>3139.56</b>	<b>2985.67</b>

3.3.17 **Central Generating Stations (NTPC, NLC & NPCIL):** The allocated share of Telangana State from the Central Sector Generating Stations is as show in the Table below:

**Table 3.10: Share allocation to Telangana State in Central Generating Stations**

S. No.	Name of the Station	Installed Capacity	Telangana State Share (%)	Telangana State Share (MW)
		MW		
1	NTPC Ramagundam Stage I & II	2100	16.27%	341.67
2	NTPC Ramagundam Stage III	500	17.16%	85.80
3	NTPC Talcher TPS II	2000	10.66%	213.20
4	NTPC Simhadri Stage I	1000	53.89%	538.90
5	NTPC Simhadri Stage II	1000	22.52%	225.20
6	NLC TPS II Stage I	630	9.61%	60.54
7	NLC TPS II Stage II	840	12.84%	107.86
8	NPC Madras APS	440	5.21%	22.92

S. No.	Name of the Station	Installed Capacity	Telangana State Share (%)	Telangana State Share (MW)
		MW		
9	NPC Kaiga APS Units 1 & 2	440	16.14%	71.02
10	NPC Kaiga APS Units 3 & 4	440	17.12%	75.33
11	NTECL Vallur TPS	1500	0.00%	0.00
12	NLC TamilNadu Power Ltd.	1000	0.00%	0.00
13	NTPC Kudgi	2400	11.19%	268.56
14	NPC Kudankulam NPP Unit 2	1000	5.00%	50.00
15	Bundled Power (Coal) under JNNSM Phase 1			50.00
16	Bundled Power (Coal) under JNNSM Phase 2			200.00
	<b>Total</b>	<b>15290</b>		<b>2311.00</b>

3.3.18 The Commission in its Tariff Order for FY 2017-18 dated 26.08.2017 directed the DISCOMs to surrender the allocated share of Telangana State in NTECL Vallur TPS and NLC TamilNadu Power Ltd. and accordingly, had not considered the energy availability from these stations from 01.08.2017. The DISCOMs submitted that in response to their request for re-allocation of the share of Telangana State in NTECL Vallur TPS, there is no confirmation from the Ministry of Power, GoI to that effect. The DISCOMs also submitted that the re-allocation of the share in NLC TamilNadu Power Ltd. will be taken up after the re-allocation of share in NTECL Vallur TPS. The Commission observed that the DISCOMs are procuring power from NTECL Vallur TPS and NLC TamilNadu Power Ltd. in FY 2017-18 and have proposed in FY 2018-19 also. In light of the directions in the Tariff Order for FY 2017-18, the Commission has not considered the share allocation to Telangana State from NTECL Vallur TPS and NLC TamilNadu Power Ltd. for FY 2018-19.

3.3.19 The energy availability from the existing Central Sector Generating Stations has been projected considering the monthly average of the actual generation during the preceding 3 years and allocated share to Telangana State in the respective generating stations. The energy availability from new stations has been projected considering the expected COD of the respective station/unit. The energy availability projections approved by the Commission is as shown below:

**Table 3.11: Energy availability projections approved from Central Generating Stations approved by the Commission (MU)**

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
1	NTPC Ramagundam Stage I & II	2374.13	2447.09
2	NTPC Ramagundam Stage III	604.04	627.28
3	NTPC Talcher TPS II	1496.21	1561.14
4	NTPC Simhadri Stage I	3801.99	3424.13
5	NTPC Simhadri Stage II	1588.81	1457.57
6	NLC TPS II Stage I	381.86	387.58
7	NLC TPS II Stage II	680.27	684.31
8	NPC Madras APS	141.96	149.95
9	NPC Kaiga APS Units 1 & 2	480.42	521.09
10	NPC Kaiga APS Units 3 & 4	493.15	552.73
11	NTECL Vallur TPS	776.42	0.00
12	NLC TamilNadu Power Ltd.	1071.53	0.00
13	NTPC Kudgi	1884.73	1894.71
14	NPC Kudankulam NPP Unit 2	286.05	333.21
15	Bundled Power (Coal) under JNNSM Phase 1	336.36	349.96
16	Bundled Power (Coal) under JNNSM Phase 2	1489.20	1399.85
	<b>Total</b>	<b>17887.11</b>	<b>15790.58</b>

3.3.20 **APGPCL:** The allocated share to Telangana State in APGPCL is as shown below:

**Table 3.12: Allocated share to Telangana State in APGPCL**

S. No.	Name of the Station	Installed Capacity MW	Telangana State Share	
			%	MW
1	APGPCL I	100.00	6.67%	6.67
2	APGPCL II	172.00	10.37%	17.84
	<b>Total</b>	<b>272.00</b>	<b>9.01%</b>	<b>24.51</b>

3.3.21 The energy availability from APGCL has been considered as projected by the DISCOMs. The energy availability projections approved by the Commission is as shown below:

**Table 3.13: Energy availability projections from APGPCL approved by the Commission (MU)**

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
1	APGPCL I	13.89	13.89
2	APGPCL II	44.28	44.28
	<b>Total</b>	<b>58.17</b>	<b>58.17</b>

3.3.22 **Other long-term sources:** The other long-term sources include TPCIL Unit 1, TPCIL Unit 2, SCCL TPP and CSPDCL.

3.3.22.1 The energy availability from TPCIL Unit 1 and Unit 2 has been projected considering the contracted capacity in the respective approved PPAs and PLF of 85%.

3.3.22.2 The energy availability from SCCL TPP has been projected considering the normative performance parameters as approved by the Commission.

3.3.22.3 The energy availability from CSPDCL PPA has been projected considering the contracted capacity and normative performance parameters.

3.3.23 The summary of energy availability projections from other long-term sources approved by the Commission is as shown below:

**Table 3.14: Energy availability projections from other long-term sources approved by the Commission (MU)**

S. No.	Name of the Station	FY 2018-19	
		Claimed	Approved
1	TPCIL (Long Term 1)	1986.26	2006.32
2	TPCIL (Long Term 2)	4201.78	4244.22
3	SCCL TPP	8421.43	8421.43
4	CSPDCL	6909.89	7055.09
	<b>Total</b>	<b>21519.35</b>	<b>21727.06</b>

3.3.24 **Non-Conventional Energy Sources:** The energy availability from non-conventional energy sources has been projected considering the installed capacity as projected by the DISCOMs. The energy availability from solar power plants has been projected considering the CUF of 16% after taking into cognizance the actual performance of the solar power plants in FY 2016-17. The energy availability from other non-conventional energy sources has been considered as projected by the DISCOMs. The

energy availability projections approved by the Commission from non-conventional energy sources is as shown below:

**Table 3.15: Energy availability projections from non-conventional energy sources approved by the Commission (MU)**

S. No.	Source	FY 2018-19	
		Claimed	Approved
1	Biomass	151.94	151.94
2	Bagasse	28.50	28.50
3	Municipal waste	154.29	154.29
4	Industrial waste	58.69	58.69
5	Wind	184.35	184.35
6	Mini hydel	5.98	5.98
7	Solar	5469.03	4615.90
	<b>Total</b>	<b>6052.78</b>	<b>5199.65</b>

3.3.25 Accordingly, the Commission has approved the total energy availability projections of 64436.89 MU from long-term sources of power.

3.3.26 **Short-term purchases:** Based on the projections of the monthly energy requirement and monthly energy availability, the Commission has worked out the deficit of 541.53 MU, 186.40 MU, 270.03 MU and 160.63 MU in the months of September 2018, October 2018, February 2019 and March 2019. The deficit projected has been assumed to be met from short-term purchases.

3.3.27 The total energy availability projections approved by the Commission is as shown in the Table below:

**Table 3.16: Energy availability projections for FY 2018-19 (MU)**

S. No.	Source	FY 2018-19	
		Claimed	Approved
1	TS Genco-Thermal	18532.56	18675.77
2	TS Genco-Hydel	3139.56	2985.67
3	CGS	17887.11	15790.58
4	APGPCL	58.17	58.17
5	Other Long-Term Sources	21519.35	21727.06
6	NCS	6052.78	5199.65

S. No.	Source	FY 2018-19	
		Claimed	Approved
7	Market	383.46	1158.59
	<b>Total</b>	<b>67573.00</b>	<b>65595.49</b>

3.3.28 The monthly energy availability projections approved by the Commission is enclosed at **Annexure 6**.

### 3.4 MONTHLY MERIT ORDER DISPATCH

3.4.1 The monthly availability of energy from various thermal power stations along with variable costs as considered by the Commission has been used for monthly merit order dispatch for FY 2018-19. In the merit order dispatch, the monthly energy availability above technical minimum, from each generating station was stacked up in ascending order of variable cost and dispatch of the stations were made, after dispatch of must run stations like Non-conventional sources of energy, hydel stations and Nuclear Power Stations (NPC) to meet requirements of both the Licensees. Accordingly, the merit order dispatch is drawn in such a manner that the cost of power procurement is minimized to the extent possible with reference to monthly information on availability and requirement.

### 3.5 COST OF POWER PURCHASE

#### *DISCOMs' submissions*

3.5.1 The DISCOMs have considered the Annual Fixed Costs of existing generating stations based on the approved Tariff Orders for the respective generating stations for FY 2018-19. The energy charges have been projected for FY 2018-19 considering the actual billing rates in FY 2017-18. For the generating stations contracted through tariff based competitive bidding, the tariffs have been considered as per the approved PPAs. For new generating stations expected to be commissioned in FY 2018-19, the tariffs have been provisionally considered based on the information furnished by the respective generating stations.

#### *Commission's Analysis and Ruling*

3.5.2 **TSGENCO – thermal generating stations:** The AFC for the thermal generating stations of TSGENCO for FY 2018-19 have been considered as per the MYT Order dated 05.06.2017 for the Control Period from FY 2014-15 to FY 2018-19. As regards the variable charges, the Commission observed that the actual billing rates for most of the stations during FY 2017-18 are much higher than the variable charges considered by the Commission in the Tariff Order for FY 2017-18. The Commission

in its Tariff Order for FY 2017-18 directed the DISCOMs to verify that the GCV of coal for which the price is being paid by its contracted generating stations should not be less than the minimum of the range of GCV specified for that particular grade. In reply to the same, the DISCOMs submitted that TSGENCO has signed a tripartite agreement with M/s SCCL and Council of Scientific and Industrial Research (CSIR) on third party sampling for coal quality monitoring and coal sampling is being taken up by TSGENCO accordingly. The DISCOMs have not submitted the compliance to the directions of the Commission as to whether an appropriate mechanism is in place for verification of GCV of coal being billed within the range of GCV for which the coal price is being billed to the generating stations. Hence, the Commission does not find it prudent to consider the variable charges of TSGENCO thermal generating stations projected by the DISCOMs for FY 2018-19. For projecting the power purchase cost for FY 2018-19, the Commission has considered the minimum of the variable charges considered for FY 2017-18 escalated by 5% and the variable charges as projected by the DISCOMs. The cost of power procurement from the thermal generating stations of TSGENCO approved by the Commission is as shown below:

**Table 3.17: Power procurement cost from thermal generating stations of TSGENCO for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
KTPS A	3654.55	593.01	869.97	<b>1462.98</b>	3360.51	543.59	730.41	<b>1274.00</b>
KTPS B								
KTPS C								
KTPS V	2790.06	286.26	616.05	<b>902.31</b>	2792.97	286.27	565.51	<b>851.78</b>
KTPS VI	2790.23	514.04	751.97	<b>1266.01</b>	2483.41	514.04	638.86	<b>1152.90</b>
RTS B	348.76	54.49	90.54	<b>145.03</b>	386.44	54.49	95.76	<b>150.25</b>
Kakatiya TPP Stage I	2836.05	530.70	723.19	<b>1253.89</b>	2605.08	530.70	664.29	<b>1194.99</b>
Kakatiya TPP Stage II	3486.04	757.71	822.71	<b>1580.42</b>	4233.05	757.70	999.00	<b>1756.70</b>
KTPS VII	2262.62	622.22	533.98	<b>1156.20</b>	2814.30	311.11	723.98	<b>1035.09</b>
Bhadradri TPS Unit 1	318.43	87.57	75.15	<b>162.72</b>	0.00	0.00		<b>0.00</b>
<b>Total</b>	<b>18486.74</b>	<b>3446.00</b>	<b>4483.55</b>	<b>7929.55</b>	<b>18675.77</b>	<b>2997.90</b>	<b>4417.80</b>	<b>7415.71</b>

3.5.3 The average per unit power purchase cost from the thermal generating stations of TSGENCO worked out by the Commission is Rs. 3.97/kWh comprising of per unit fixed charges of Rs. 1.61/kWh and variable charges of Rs. 2.36/kWh.

3.5.4 **Hydel generating stations (TSGENCO and inter-State):** The AFC of hydel

generating stations of TSGENCO for FY 2018-19 has been considered as per the MYT Order dated 05.06.2017 for the Control Period from FY 2014-15 to FY 2018-19. For the inter-State projects, the Commission has considered the AFC for FY 2018-19 as per the filings. The cost of power procurement from hydel generating stations approved by the Commission is as shown below:

**Table 3.18: Power procurement cost from hydel generating stations for FY 2018-19**

Particulars	Claimed		Approved	
	Quantum	Fixed Cost	Quantum	Fixed Cost
	MU	Rs. crore	MU	Rs. crore
<b>Hydel-Inter State</b>				
Machkund PH	94.43	10.87	297.51	10.87
Tungabharda PH	4.39	7.45	85.79	7.45
Priyadarshini Jurala HEP	93.02	58.66	137.86	58.66
<b>Sub-total</b>	<b>191.84</b>	<b>76.98</b>	<b>521.17</b>	<b>76.98</b>
<b>Hydel-TSGenco</b>				
Nagarjunasagar HES	1311.38	131.40	803.91	141.07
Nagarjunasagar Left Canal PH	60.58	9.67	50.02	0.00
Srisaillam Left Bank HES	1299.76	440.06	1357.04	440.06
Lower Jurala HEP	129.60	284.45	112.77	284.46
Pulichintala	9.71	80.79	9.71	80.79
Pochampad PH	66.70	24.39	61.06	32.99
Nizamsagar HES	23.46	6.11	23.46	
Singur HES	26.14	9.17	26.14	
Paleru	20.39	8.03	20.39	6.81
Peddapalli MHS				
<b>Sub-total</b>	<b>2947.72</b>	<b>994.07</b>	<b>2464.50</b>	<b>986.18</b>
<b>Total Hydel</b>	<b>3139.56</b>	<b>1071.05</b>	<b>2985.67</b>	<b>1063.16</b>

3.5.5 The average per unit power purchase cost from hydel generating stations, worked out by the Commission for FY 2018-19 is Rs. 3.56/kWh.

3.5.6 **Central Generating Stations:** The AFC has been considered based on the CERC Tariff Orders for the respective generating stations for FY 2018-19. The Commission in its Tariff Order for FY 2017-18 directed the DISCOMs to verify that the GCV of coal for which the price is being paid by its contracted generating stations should not be less than the minimum of the range of GCV specified for that particular grade. The DISCOMs have not submitted the compliance to the directions of the Commission as to whether an appropriate mechanism is in place for verification of GCV of coal being billed within the range of GCV for which the coal price is being billed to the

generating stations. Further, from the power purchase bills submitted by the DISCOMs for some of the central generating stations, the Commission observed that the as billed GCV is significantly lower than the GCV of coal for which the price is being paid. Hence, the Commission does not find it prudent to consider the variable charges of Central thermal generating stations projected by the DISCOMs for FY 2018-19. For projecting the power purchase cost for FY 2018-19, the Commission has considered the minimum of the variable charges considered for FY 2017-18 escalated by 5% and the variable charges as projected by the DISCOMs.

3.5.7 For nuclear power stations, the Commission has considered the tariff of the respective generating station as per the filings. For bundled power, the Commission has considered the tariff actually paid in FY 2017-18.

3.5.8 The cost of power procurement from the Central Generating Stations approved by the Commission is as shown below:

**Table 3.19: Power procurement cost from Central Generating Stations for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
NTPC Ramagundam Stage I & II	2374.13	172.66	562.66	<b>735.32</b>	2447.09	172.66	560.14	<b>732.80</b>
NTPC Ramagundam Stage III	604.04	46.42	140.08	<b>186.49</b>	627.28	46.42	144.24	<b>190.66</b>
NTPC Talcher TPS II	1496.21	107.37	202.89	<b>310.26</b>	1561.14	107.37	211.69	<b>319.06</b>
NTPC Simhadri Stage I	3384.52	356.75	925.32	<b>1282.07</b>	3424.13	356.75	783.78	<b>1140.53</b>
NTPC Simhadri Stage II	1173.98	241.79	321.79	<b>563.57</b>	1457.57	241.79	335.17	<b>576.95</b>
NLC TPS II Stage I	278.89	28.81	76.53	<b>105.34</b>	387.58	28.73	105.81	<b>134.54</b>
NLC TPS II Stage II	451.39	57.04	123.86	<b>180.90</b>	684.31	53.05	186.82	<b>239.87</b>
NPC Madras APS	141.96	0.00	30.89	<b>30.89</b>	153.10		33.31	<b>33.31</b>
NPC Kaiga APS Units 1 & 2	480.42	0.00	150.88	<b>150.88</b>	534.78		166.85	<b>166.85</b>
NPC Kaiga APS Units 3 & 4	493.15	0.00	154.88	<b>154.88</b>	567.25		176.98	<b>176.98</b>
NTECL Vallur TPS	776.42	130.39	201.25	<b>331.64</b>	0.00	0.00	0.00	<b>0.00</b>
NLC TamilNadu Power Ltd.	488.98	167.29	144.44	<b>311.73</b>	0.00	0.00	0.00	<b>0.00</b>
NTPC Kudgi	372.05	244.70	129.40	<b>374.09</b>	1894.71	244.70	376.01	<b>620.70</b>
NPC Kudankulam NPP Unit 2	286.05	0.00	117.17	<b>117.17</b>	342.84		140.43	<b>140.43</b>
Bundled Power (Coal) under JNNSM Phase 1	1825.56	0.00	843.41	<b>843.41</b>	358.24		119.67	<b>119.67</b>
Bundled Power (Coal) under JNNSM Phase 2					1432.95		478.68	<b>478.68</b>
<b>Total</b>	<b>14627.74</b>	<b>1553.20</b>	<b>4125.44</b>	<b>5678.64</b>	<b>15872.96</b>	<b>1251.46</b>	<b>3819.58</b>	<b>5071.04</b>

3.5.9 The average per unit power purchase cost from central generating stations, worked

out by the Commission for FY 2018-19 is Rs. 3.19/kWh comprising of per unit fixed charges of Rs. 0.79/kWh and variable charges of Rs. 2.40/kWh.

3.5.10 **APGPCL:** The AFC of power procurement from APGPCL has been considered as per the filings. The variable charges have been considered as the lower of the variable charges considered for FY 2017-18 and the variable charges projected by the DISCOMs. The cost of power procurement from APGPCL approved by the Commission for FY 2018-19 is as shown below:

**Table 3.20: Power procurement cost from APGPCL for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
APGPCL I	13.89	1.17	3.34	<b>4.51</b>	13.89	1.17	2.07	<b>3.24</b>
APGPCL II	44.28	2.40	10.49	<b>12.89</b>	44.28	2.40	10.41	<b>12.81</b>
<b>Total</b>	<b>58.17</b>	<b>3.57</b>	<b>13.82</b>	<b>17.39</b>	<b>58.17</b>	<b>3.57</b>	<b>12.48</b>	<b>16.05</b>

3.5.11 The average per unit power purchase cost from APGPCL, worked out by the commission for FY 2018-19 is Rs. 2.76/kWh comprising of per unit fixed cost of Rs. 0.61/kWh and variable charges of Rs. 2.15/kWh.

3.5.12 **Other long-term sources:** The other long-term sources include TPCIL Unit 1, TPCIL Unit 2, SCCL TPP and CSPDCL.

3.5.12.1 The fixed charges for TPCIL Unit 1 and TPCIL Unit 2 has been considered based on the approved PPAs. The variable charges have been considered as the minimum of the variable charges considered for FY 2017-18 escalated by 5% and the variable charges as projected by the DISCOMs.

3.5.12.2 The tariff of SCC LTPP has been considered as per the Commission's Order dated 19.06.2017 on approval of generation tariff for the period from FY 2016-17 to FY 2018-19.

3.5.12.3 The tariff of power procurement under CSPDCL PPA has been considered based on the tariff approved by the Hon'ble CSERC for FY 2018-19.

3.5.13 The cost of power procurement from other long-term sources approved by the Commission is as shown below:

**Table 3.21: Power procurement cost from other long-term sources for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
TPCIL (Long Term 1)	1986.26	350.68	345.64	<b>696.33</b>	2006.32	350.68	349.14	<b>699.82</b>
TPCIL (Long Term 2)	4201.78	1128.73	937.08	<b>2065.81</b>	4244.22	1128.73	811.07	<b>1939.80</b>
SCCL TPP	8421.43	1514.92	1808.82	<b>3323.74</b>	8421.43	1514.92	1494.38	<b>3009.30</b>
CSPDCL	6909.89	1871.72	829.19	<b>2700.91</b>	7055.09	1871.72	846.61	<b>2718.33</b>
<b>Total</b>	<b>21519.35</b>	<b>4866.05</b>	<b>3920.73</b>	<b>8786.78</b>	<b>21727.06</b>	<b>4866.05</b>	<b>3501.20</b>	<b>8367.25</b>

3.5.14 The average per unit power purchase cost from other long-term sources, worked out by the Commission for FY 2018-19 is Rs. 3.85/kWh comprising of per unit fixed charges of Rs. 2.24/kWh and variable charges of Rs. 1.61/kWh.

3.5.15 **Non-Conventional Energy sources:** The tariffs applicable for the respective non-conventional energy source has been considered for projecting the power procurement cost from non-conventional energy sources. The cost of power procurement from non-conventional energy sources approved by the Commission is as shown below:

**Table 3.22: SPDCL - Power procurement cost from NCE sources for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. Crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
Biomass	46.55	0.00	31.80	<b>31.80</b>	46.55	7.08	20.53	<b>27.60</b>
Bagasse	8.28	0.00	4.06	<b>4.06</b>	8.28	0.96	2.33	<b>3.29</b>
Municipal waste	79.45	0.00	58.79	<b>58.79</b>	79.45		56.49	<b>56.49</b>
Industrial waste	25.22	0.00	17.65	<b>17.65</b>	25.22	4.14	11.12	<b>15.26</b>
Wind	184.35	0.00	86.65	<b>86.65</b>	184.35		86.65	<b>86.65</b>
Mini Hydel	1.77	0.49	0.00	<b>0.49</b>	1.77	0.49		<b>0.49</b>
Solar	3877.85	0.00	2278.84	<b>2278.84</b>	3288.59		1831.74	<b>1831.74</b>
<b>Total</b>	<b>4223.47</b>	<b>0.49</b>	<b>2477.79</b>	<b>2478.27</b>	<b>3634.21</b>	<b>12.66</b>	<b>2008.85</b>	<b>2021.51</b>

**Table 3.23: NPDCL – Power procurement cost from NCE sources for FY 2018-19**

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
Biomass	105.39		74.15	<b>74.15</b>	105.39	16.02	46.48	<b>62.50</b>

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
Bagasse	20.21		9.87	<b>9.87</b>	20.21	2.34	5.68	<b>8.02</b>
Municipal waste	74.85		44.61	<b>44.61</b>	74.85		44.61	<b>44.61</b>
Industrial waste	33.47		23.84	<b>23.84</b>	33.47	5.49	14.76	<b>20.25</b>
Wind	0.00		0.00	<b>0.00</b>	0.00			<b>0.00</b>
Mini Hydel	4.21	1.17		<b>1.17</b>	4.21	1.17		<b>1.17</b>
Solar	1591.18		901.96	<b>901.96</b>	1327.32		744.62	<b>744.62</b>
<b>Total</b>	<b>1829.31</b>	<b>1.17</b>	<b>1054.44</b>	<b>1055.61</b>	<b>1565.45</b>	<b>25.02</b>	<b>856.15</b>	<b>881.17</b>

3.5.16 The average per unit power purchase cost from NCE sources, at the State level, worked out by the Commission for FY 2018-19 is Rs. 5.58/kWh. The average per unit power purchase cost for procurement of solar power, at the State level, worked out by the Commission for FY 2018-19 is Rs. 5.58/kWh.

3.5.17 **Short-term purchases:** For the approved short-term purchases of 1158.59 MU in FY 2018-19, the Commission has considered the power purchase price of Rs. 3.86/kWh which is the actual power purchase price of the DISCOMs during FY 2017-18. The cost of power procurement from short term sources approved by the Commission for FY 2018-19 is as shown below:

Particulars	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore
Short-term purchases	406.50	0.00	162.60	<b>162.60</b>	1158.59	0.00	447.68	<b>447.68</b>

3.5.18 The DISCOMs have further sought an amount of Rs. 34.07 crore towards the obligations under the contracted bilateral purchases for the period from 01.04.2018 to 15.04.2018. The Commission has not considered the same in this Order. The same shall be considered after prudence check during the truing up of FY 2018-19.

### 3.6 SALE OF SURPLUS ENERGY

3.6.1 The DISCOMs have projected the surplus energy availability of 3282.17 MU during FY 2018-19. The DISCOMs have not projected any revenue from sale of surplus power for FY 2018-19. In reply to a query of the Commission, the DISCOMs submitted that a quantum of 1102.11 MU was sold in the power exchanges at the average price of Rs. 3.44/kWh during the period April to December, 2017.

3.6.2 The Commission has considered the surplus energy availability of 8046.59 MU for FY 2018-19. The Commission has considered the revenue from sale of available surplus energy at the price of Rs. 3.10/kWh. Accordingly, the revenue from sale of surplus energy has been adjusted from the total power purchase cost.

3.6.3 The monthly merit order dispatch approved by the Commission is enclosed at **Annexure 7**.

### **3.7 DISCOM WISE ALLOCATION OF ENERGY**

3.7.1 The Commission has considered the share of SPDCL as 70.55% and NPDCL as 29.45% of the total energy dispatched from conventional energy sources, based on the energy dispatched as per the merit order. The energy from non-conventional sources in a DISCOM area has been considered fully to the respective DISCOM.

### **3.8 DISCOM TO DISCOM (D-D) ENERGY TRANSFER AND D-D COST ADJUSTMENT**

3.8.1 Since the power from the generating stations is dispatched on the basis of central dispatch for the entire State i.e., State Load Despatch Centre (SLDC), often the energy share of one Licensee happens to be utilised by another Licensee (DISCOM-to-DISCOM energy transfers). In the merit order process, the station wise energy of one Licensee is transferred to the other Licensee. The price as proposed by the DISCOMs has been considered in arriving at power purchase cost settlement due to D-D energy transfers.

### **3.9 ADDITIONAL INTEREST ON PENSION BONDS**

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3.9.1 The DISCOMs have claimed the amount of Rs. 684.30 crore towards the additional interest on pension bonds for FY 2018-19. The amount claimed by the DISCOMs is in accordance with the amount approved by the Commission for TSGENCO for FY 2018-19. Accordingly, the Commission has considered the amount of Rs. 684.30 crore towards the additional interest on pension bonds for FY 2018-19.

### **3.10 POWER PURCHASE COST**

3.10.1 Based on the above, the power purchase cost approved by the Commission for FY 2018-19 is as shown below:

**Table 3.24: Power purchase cost for both the DISCOMs for FY 2018-19**

Particulars	Claimed					Approved				
	Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore
TSGENCO - Thermal	18486.74	3446.00	4483.55	367.75	<b>8297.29</b>	18675.77	2997.90	4417.80	367.75	<b>7783.45</b>
TSGENCO - Hydel	3139.56	1071.05		316.55	<b>1387.60</b>	2985.67	1063.16	0.00	316.55	<b>1379.71</b>
Central Generating Stations	14627.74	1553.20	4125.44	0.92	<b>5679.56</b>	15872.96	1251.46	3819.58		<b>5071.04</b>
APGPCL	58.17	3.57	13.82	0.00	<b>17.39</b>	58.17	3.57	12.48		<b>16.05</b>
Non-Conventional sources	6052.78	1.66	3532.22	0.00	<b>3533.88</b>	5199.65	37.68	2865.00	0.00	<b>2902.68</b>
Other Long-Term sources	21519.35	4866.05	3920.73	4.06	<b>8790.85</b>	21727.06	4866.05	3501.20		<b>8367.25</b>
D-D Purchases	3257.93	0.00	1303.17	0.00	<b>1303.17</b>	2209.55	0.00	883.82	0.00	<b>883.82</b>
D-D Sales	-3257.93	0.00	-1303.17	0.00	<b>-1303.17</b>	-2209.55	0.00	-883.82	0.00	<b>-883.82</b>
Short-term purchase	406.50	0.00	162.60	34.07	<b>196.67</b>	1158.59	0.00	447.68	0.00	<b>447.68</b>
Sale of surplus power						-8046.59	0.00	-2494.44	0.00	<b>-2494.44</b>
<b>Total</b>	<b>64290.84</b>	<b>10941.53</b>	<b>16238.36</b>	<b>723.35</b>	<b>27903.25</b>	<b>57631.27</b>	<b>10219.82</b>	<b>12569.29</b>	<b>684.30</b>	<b>23473.41</b>

Procurement price per unit of electricity works out to Rs. 4.07/kWh comprising of fixed component of Rs. 1.89/kWh and variable component of Rs. 2.18/kWh.

**Table 3.25: Power purchase cost of SPDCL for FY 2018-19**

Particulars	Claimed					Approved				
	Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore
TSGENCO - Thermal	13042.39	2431.15	3163.14	259.45	<b>5853.74</b>	13175.75	2115.02	3116.76	259.45	<b>5491.23</b>
TSGENCO - Hydel	2214.96	755.63	-	223.33	<b>978.95</b>	2106.39	750.06	0.00	223.33	<b>973.38</b>
Central Generating Stations	10460.60	1095.78	2975.51	0.65	<b>4071.95</b>	11198.37	882.90	2694.71	0.00	<b>3577.62</b>
APGPCL	41.04	2.52	9.75	0.00	<b>12.27</b>	41.04	2.52	8.80	0.00	<b>11.32</b>
Non-Conventional sources	4223.47	0.49	2477.79	0.00	<b>2478.27</b>	3634.21	12.66	2008.85		<b>2021.51</b>
Other Long-Term sources	15181.90	3433.00	2766.08	2.87	<b>6201.94</b>	15328.44	3433.00	2470.10	0.00	<b>5903.09</b>
D-D Purchases	0.00	0.00	0.00	0.00	<b>0.00</b>	118.53		47.41		<b>47.41</b>
D-D Sales	-3257.93		-1303.17	0.00	<b>-1303.17</b>	-2091.02		-836.41		<b>-836.41</b>
Short-term purchase	286.79		114.71	24.04	<b>138.75</b>	58.73		22.69		<b>22.69</b>
Sale of surplus power						-4023.30		-1247.22		<b>-1247.22</b>
<b>Total</b>	<b>42193.22</b>	<b>7718.57</b>	<b>10203.81</b>	<b>510.32</b>	<b>18432.71</b>	<b>39547.14</b>	<b>7196.16</b>	<b>8285.70</b>	<b>482.77</b>	<b>15964.63</b>

**Table 3.26: Power purchase cost of NPDCL for FY 2018-19**

Particulars	Claimed					Approved				
	Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore
TSGENCO - Thermal	5444.34	1014.85	1320.40	108.30	<b>2443.55</b>	5500.01	882.88	1301.04	108.30	<b>2292.23</b>
TSGENCO - Hydel	924.60	315.42		93.23	<b>408.65</b>	879.28	313.10	0.00	93.23	<b>406.32</b>
Central Generating Stations	4167.14	457.42	1149.92	0.27	<b>1607.61</b>	4674.59	368.55	1124.87	0.00	<b>1493.42</b>
APGPCL	17.13	1.05	4.07	0.00	<b>5.12</b>	17.13	1.05	3.67	0.00	<b>4.73</b>
Non-Conventional sources	1829.31	1.17	1054.44	0.00	<b>1055.61</b>	1565.45	25.02	856.15		<b>881.17</b>
Other Long-Term sources	6337.45	1433.05	1154.66	1.20	<b>2588.90</b>	6398.62	1433.05	1031.10	0.00	<b>2464.16</b>
D-D Purchases	3257.93		1303.17		<b>1303.17</b>	2091.02		836.41		<b>836.41</b>

Particulars	Claimed					Approved				
	Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore	MU	Rs. crore	Rs. crore	Rs. crore	Rs. crore
D-D Sales	0.00	0.00	0.00	0.00	<b>0.00</b>	-118.53		-47.41		<b>-47.41</b>
Short-term purchase	119.71		47.89	10.03	<b>57.92</b>	1099.86		424.99		<b>424.99</b>
Sale of surplus power						-4023.30		-1247.22		<b>-1247.22</b>
<b>Total</b>	<b>22097.62</b>	<b>3222.96</b>	<b>6034.55</b>	<b>213.03</b>	<b>9470.54</b>	<b>18084.13</b>	<b>3023.66</b>	<b>4283.60</b>	<b>201.53</b>	<b>7508.78</b>

### 3.11 DISTRIBUTION COST

#### *Commission's Analysis and Ruling*

3.11.1 The DISCOMs have claimed the distribution cost for FY 2018-19 in accordance with the Commission's Order dated 27.03.2015 on approval of Distribution and Wheeling Tariff Order for FY 2014-15 to FY 2018-19. Accordingly, the distribution cost of Rs. 3098.72 crore and Rs. 1920.47 crore has been claimed by SPDCL and NPDCL respectively. The Commission has considered the distribution cost for FY 2018-19 as claimed by the DISCOMs.

### 3.12 TRANSMISSION COST

#### *Commission's Analysis and Ruling*

3.12.1 The DISCOMs have claimed the transmission cost for FY 2018-19 in accordance with the Commission's Order dated 01.05.2017 on approval of Transmission Tariff for TSTRANSCO for FY 2017-18 and FY 2018-19. Accordingly, the transmission cost of Rs. 959.57 crore and Rs. 448.51 crore has been claimed by SPDCL and NPDCL respectively. The Commission has considered the transmission cost for FY 2018-19 as claimed by the DISCOMs.

### 3.13 PGCIL & POSOCO CHARGES

#### *Commission's Analysis and Ruling*

3.13.1 The PGCIL & POSOCO charges have been claimed as Rs. 799.00 crore and Rs. 333.53 crore for SPDCL and NPDCL respectively for FY 2018-19. The Commission has approved the PGCIL & POSOCO charges for FY 2018-19 considering the long-term contracted capacity outside the Telangana State and the applicable PoC charges in FY 2017-18. Accordingly, the Commission has approved the PGCIL & POSOCO charges of Rs. 650.98 crore and Rs. 271.74 crore for SPDCL and NPDCL respectively for FY 2018-19.

### 3.14 SLDC CHARGES

#### *Commission's Analysis and Ruling*

3.14.1 The DISCOMs have claimed the SLDC charges for FY 2018-19 in accordance with the Commission's Order dated 20.06.2017 on approval of SLDC Charges for FY 2017-18 and FY 2018-19. Accordingly, the SLDC charges of Rs. 23.50 crore and Rs. 10.99 crore has been claimed by SPDCL and NPDCL respectively. The Commission has considered the SLDC charges for FY 2018-19 as claimed by the DISCOMs.

### 3.15 INTEREST ON CONSUMER SECURITY DEPOSIT

#### *Commission's Analysis and Ruling*

3.15.1 The DISCOMs have claimed the interest on consumer security deposit for FY 2018-19 considering the provisions of the Regulation No. 6 of 2004. Accordingly, the interest on consumer security deposit has been claimed as Rs. 176.18 crore and Rs. 53.15 crore for SPDCL and NPDCL respectively. Pursuant to the Regulations notified by the erstwhile APERC, adopted by the Commission, the interest on consumer security deposit has been approved considering the interest rate of 6.25% as notified by the Reserve Bank of India. The interest is calculated on the average balance of the consumer security deposit as estimated by the Commission for FY 2018-19. Accordingly, the Commission has approved the interest on consumer security deposit as Rs. 179.03 crore and Rs. 53.67 crore for SPDCL and NPDCL respectively.

### 3.16 SUPPLY MARGIN

#### *Commission's Analysis and Ruling*

3.16.1 The DISCOMs have claimed the supply margin for FY 2018-19 considering 2% of the equity portion of the approved regulatory rate base as approved by the Commission for FY 2018-19 in the MYT Order date 27.03.2015. Accordingly, the supply margin has been claimed as Rs. 29.20 crore and Rs. 16.16 crore for SPDCL and NPDCL respectively. The Commission after analysing the submissions of the DISCOMs has approved the supply margin as claimed by the DISCOMs.

### 3.17 OTHER CHARGES

#### *Commission's Analysis and Ruling*

3.17.1 NPDCL has claimed an amount of Rs. 2.05 crore towards reactive power charges payable to Southern Grid, wheeling charges payable to other States and assets maintenance charges payable to SRPC. After examining the NPDCL submissions

towards other charges, the Commission has approved the amount of Rs. 2.05 crore for FY 2018-19 as claimed by NPDCL.

### 3.18 AGGREGATE REVENUE REQUIREMENT (ARR)

3.18.1 Based on the above, the ARR approved by the Commission for FY 2018-19 is as shown below:

**Table 3.27: ARR for FY 2018-19 (Rs. crore)**

Particulars	Claimed			Approved		
	SPDCL	NPDCL	Total	SPDCL	NPDCL	Total
Power purchase cost	18432.71	9470.54	<b>27903.25</b>	15964.63	7508.78	<b>23473.41</b>
Distribution cost	3098.72	1920.47	<b>5019.19</b>	3098.72	1920.47	<b>5019.19</b>
Transmission cost	959.57	448.51	<b>1408.07</b>	959.57	448.51	<b>1408.07</b>
PGCIL & POSOCO charges	799.00	333.53	<b>1132.53</b>	650.98	271.74	<b>922.72</b>
SLDC charges	23.50	10.99	<b>34.49</b>	23.50	10.99	<b>34.49</b>
Interest on Consumer Security Deposit	176.18	53.15	<b>229.33</b>	179.03	53.67	<b>232.69</b>
Supply Margin	29.20	16.16	<b>45.36</b>	29.20	16.16	<b>45.36</b>
Other cost	0.00	2.05	<b>2.05</b>	0.00	2.05	<b>2.05</b>
<b>Aggregate Revenue Requirement</b>	<b>23518.88</b>	<b>12255.40</b>	<b>35774.28</b>	<b>20905.63</b>	<b>10232.36</b>	<b>31137.99</b>

### 3.19 SAVINGS DUE TO UDAY SCHEME

#### *Commission's Analysis and Ruling*

3.19.1 The Government of India, Government of Telangana State and the Licensees have entered into a Tripartite MoU (UDAY MoU) dated 04.01.2017 in order to improve the operational and financial efficiency of the Licensees to enable their financial turnaround. Under the said scheme, the Government of Telangana State is to take over 75% of the outstanding debt of the Licensees as on 30.09.2015 by the end of FY 2016-17. The Commission directed the Licensees to submit the savings on their distribution businesses upon implementation of UDAY. In reply, the Licensees submitted that the savings due to UDAY Scheme may be considered at the end of the Control Period. The Commission does not find merit in the submissions of the DISCOMs particularly when the savings have been indicated and considered by the Commission in the Tariff Order for FY 2017-18. Hence, the Commission has considered the savings as Rs. 743.88 crore and Rs. 372.54 crore for SPDCL and NPDCL respectively, the same as considered in the Tariff Order for FY 2017-18.

**3.20 NET REVENUE REQUIREMENT FOR FY 2018-19**

3.20.1 After considering the savings due to UDAY Scheme, the net revenue requirement for FY 2018-19 is as shown below:

**Table 3.28: Net Revenue Requirement for FY 2018-19 (Rs. crore)**

Particulars	Claimed			Approved		
	SPDCL	NPDCCL	Total	SPDCL	NPDCCL	Total
ARR	23518.88	12255.40	<b>35774.28</b>	20905.63	10232.36	<b>31137.99</b>
Less: Savings due to UDAY Scheme	0.00	0.00	<b>0.00</b>	743.88	372.54	<b>1116.42</b>
<b>Net Revenue Requirement</b>	<b>23518.88</b>	<b>12255.40</b>	<b>35774.28</b>	<b>20161.75</b>	<b>9859.82</b>	<b>30021.57</b>

## 4 COST OF SERVICE FOR FY 2018-19

### 4.1 COST OF SERVICE

#### *DISCOMs' submissions*

4.1.1 The DISCOMs have computed the Cost of Service (CoS) for each category based on embedded cost methodology. The CoS has been determined based on the average of morning and evening peaks. They have also utilised the Class Load Factor and Maximum Coincident factor peak demand for each category to arrive at the CoS.

#### *Commission's Analysis and Ruling*

4.1.2 The Commission has adopted the embedded cost methodology to determine the Category-wise CoS for each category. The Commission has considered the evening peak demand and has prudently analysed the class load factors and maximum coincident demand factors furnished by the Licensees. According to this methodology, all the cost components of the Aggregate Revenue Requirement as determined by the Commission for SPDCL and NPDCL have been allocated to the existing consumer categories to determine their respective CoS.

4.1.3 The costs are functionalised under the heads of generation, transmission, distribution and retail supply. Post functionalisation, the costs based on their nature are classified as demand and energy cost components. The demand related costs include the fixed cost of power procurement, distribution cost, transmission cost (interstate and intrastate), and load dispatch charges. The energy related costs include the variable cost of power procurement, interest on consumer security deposit, supply margin and other costs of Retail Supply Business.

4.1.4 These categories of costs are allocated to individual consumer categories based on the specific allocation factor computed considering the category wise approved sales, connected load / contracted demand, class load factor, non-coincident demand of coincident factor to peak demand and voltage wise assets & losses (commercial and technical).

4.1.5 After allocation of all cost components to the individual consumer categories, per unit CoS is arrived at by dividing cost by the approved sales for the respective category. The CoS thus computed differs from one consumer category to other on account of factors mentioned in the above paragraphs.

4.1.6 The cost of service thus worked out for each consumer category has been used to determine the tariff and cross subsidy required to recover the approved ARR for FY 2018-19 in respect of each Licensee.

4.1.7 The average CoS for FY 2018-19 works out to Rs. 5.91/kWh, Rs. 6.31/kWh and Rs. 6.04/kWh for SPDCL, NPDCL and at State level respectively.

4.1.8 The CoS computed for each consumer category is as shown below:

**Table 4.1: Cost of Service for FY 2018-19 (Rs./kWh)**

Consumer Category		Claimed		Approved		
		SPDCL	NPDCL	SPDCL	NPDCL	State
<b>LT Categories</b>						
LT I (A&B)	Domestic	7.05	7.36	7.05	7.98	7.31
LT II (A, B & C)	Non-Domestic/Commercial	7.10	8.45	7.08	8.67	7.41
LT III (A&B)	Industrial	6.69	7.25	6.22	7.37	6.48
LT IV (A&B)	Cottage Industries & Dhobighats	6.54	6.91	6.33	7.48	6.86
LT V (A&B)	Irrigation & Agriculture	6.58	6.39	5.05	5.57	5.27
LT VI (A&B)	Local Bodies, Street Lighting & PWS	7.21	6.61	7.10	9.06	7.67
LT VII (A&B)	General Purpose	7.92	6.75	7.39	9.02	8.03
LT VIII (A&B)	Temporary Supply	7.80	NA	7.80	NA	7.80
<b>HT Categories</b>						
HT I	Industry Segregated					
	11 kV	6.47	6.07	6.21	7.17	6.35
	33 kV	5.44	5.02	4.94	5.64	4.97
	132 kV	5.22	4.56	4.79	5.15	4.89
HT I(B)	Ferro Alloys					
	11 kV	11.15	NA	NA	NA	NA
	33 kV	NA	NA	NA	NA	NA
	132 kV	4.78	NA	4.09	NA	4.09
HT II	Others					
	11 kV	6.53	6.22	6.61	7.00	6.64
	33 kV	5.85	5.65	6.03	6.93	6.06
	132 kV	5.29	16.79	5.18	12.20	5.41
HT III	Airports, Railways and Bus Stations					
	11 kV	6.46		6.84	8.95	8.12
	33 kV	NA		NA	NA	NA
	132 kV	4.75		4.59	NA	4.59
HT IV(A&B)	Lift Irrigation & Agriculture					
	11 kV	6.25	6.49	5.69	6.70	6.13
	33 kV	4.10	5.48	4.69	6.13	5.44
	132 kV	5.66	6.03	4.38	5.69	5.09

Consumer Category		Claimed		Approved		
HT V(A)	Railway Traction	6.04	4.91	4.77	4.86	4.84
HT V(B)	HMR	6.66	NA	4.88	NA	4.88
HT VI	Townships and Residential Colonies					
	11 kV	7.33	5.78	7.00	7.26	7.03
	33 kV	6.85	5.73	6.31	4.97	5.71
	132 kV	NA	4.62	NA	4.88	4.88
HT	Temporary Supply	6.24	NA	5.51	NA	5.51
HT	RESCOs	NA	5.42	NA	4.65	4.65
<b>Total</b>		<b>6.46</b>	<b>6.37</b>	<b>5.91</b>	<b>6.31</b>	<b>6.04</b>

4.1.9 The computations of Cost of Service for FY 2018-19 are enclosed at **Annexures 8 to 10**.

## 5 TARIFF DESIGN

The Commission while determining the ARR and Retail Supply Tariffs for FY 2018-19 has been guided by the provisions of the Electricity Act, 2003, Revised Tariff Policy 2016 and Regulations of this Commission. This chapter deals with the changes proposed by the DISCOMs in the existing tariff structure and the Commission's rulings thereon.

The DISCOMs have requested the Commission for retaining the tariffs as per the Tariff Order for FY 2017-18, for FY 2018-19 for all categories except HT IV(A). The DISCOMs have proposed two-part tariff for HT IV(A) category.

### 5.1 CATEGORISATION OF ELECTRIC VEHICLE CHARGING STATIONS

#### *DISCOMs' submissions*

- 5.1.1 The transport sector is the largest user of oil and second largest source of CO<sub>2</sub> emissions world-wide. Indian transportation sector accounts for one-third of the total crude oil consumed in the country, where 80% is being consumed by road transportation alone. It also accounts for around 11% of total CO<sub>2</sub> emissions from fuel combustion.
- 5.1.2 The National Electric Mobility Mission Plan 2020, notified by the Department of Heavy Industry, Ministry of Heavy Industries and Public Enterprises, Government of India seeks to enhance national energy security, mitigate adverse environmental impacts from road transport vehicles and boost domestic manufacturing capabilities for Electric Vehicles (EVs). It is envisaged that EVs are expected to play a significant role in India's transition to a low-carbon eco-system.
- 5.1.3 As per estimates, based on Total Cost of Ownership (TCO), commercial fleet of cars (taxis) could possibly be among the first adopters of EVs on a large scale followed by private vehicles. DISCOMs are of the view that the activity of usage of power for Charging Infrastructure/ Battery swap should be recognized as a commercial activity. Considering the above, the DISCOMs have proposed the tariff for this category as follows:

For Electric Vehicle Charging Stations/ Charging Infrastructure/ Battery Swap set up at LT voltage level	Tariff applicable would be as per the LT II category tariff approved by the Commission in the Tariff Order for FY 2017-18.
For Electric Vehicle Charging Stations/ Charging Infrastructure/ Battery Swap set up at HT voltage level	Tariff applicable would be as per the HT II category tariff approved by the Commission in the Tariff Order for FY 2017-18 for respective voltages

- 5.1.4 DISCOMs would provide supply to Electric Vehicle Charging Stations/ Charging Infrastructure/ Battery Swap as per the above schedule. Charging infrastructure provider is free to setup infrastructure at any location in the area of the DISCOM and provide services to the end user/ electric vehicle.

***Commission's Analysis and Ruling***

- 5.1.5 The Commission is of the view that the concept of electric vehicle charging stations is at a very nascent stage without any concrete developments and hence, the Commission does not find it prudent to decide on the categorisation of the same at this stage.

**5.2 TARIFF PROPOSAL FOR HT IV(A)**

***DISCOMs' submissions***

- 5.2.1 Based on the data received from Irrigation Department, GoTS, Kaleshwaram lift irrigation project with installed capacity of 2305 MW would be operational in FY 2018-19. The other new lift irrigation schemes expected to be operational in FY 2018-19 contribute another 208 MW. Hence the projected load from lift irrigation schemes in FY 2018-19 would be 4140 MW including existing loads. The projected sales from lift irrigation schemes for FY 2018-19 are 5583 MU.
- 5.2.2 From the above, the projected demand from the lift irrigation schemes on the grid is substantial. DISCOMs would have to contract adequate quantities of power in advance in order to ensure continued supply of power to lift irrigation schemes and all other category of consumers. DISCOMs have endeavoured to minimize the power purchase through optimal contracting through non-RTC contracts. Such contracts would still have fixed cost commitment due to non-off take of power by the DISCOM in a scenario of reduced demand from the lift irrigation schemes when compared to the projected loads. The above situation has an adverse impact on the financials of the DISCOMs. Further as per the recommendations of the committee constituted by Ministry of Power (MoP) on rationalization of Tariff structures, greater emphasis has been placed on recovery of fixed and variable costs through two-part tariff structures. Hence DISCOMs need to enhance the recovery of fixed charges through two-part tariff structures which are reflective of the fixed and energy costs commitments of power purchase contracts.
- 5.2.3 In view of the above, two-part tariff is proposed for HT IV(A) category as shown below:

**Table 5.1: Tariff proposal for HT IV(A) category**

<b>Existing Tariff</b>	<b>Proposed Tariff</b>	<b>Proposed terms and conditions for billing of Demand Charges</b>
<b>Single Part Tariff:</b> Energy Charges of Rs. 6.40/kVAh	<b>Two Part Tariff:</b> Demand Charges – Rs. 390/kVA/month; Energy Charges – Rs. 4.88/kVAh	<ol style="list-style-type: none"> <li>1. Demand Charges would be levied on 80% of Contracted Maximum Demand (CMD) or Recorded Maximum Demand (RMD) for operational months – July to November (5 months).</li> <li>2. Demand Charges would be levied on 30% of CMD or RMD for non-operational months – December to June (7 months).</li> </ol>

5.2.4 Based on the projected commissioning schedule of loads and energy across months in FY 2018-19, the proposed tariff structure would be revenue neutral at the State level i.e., there is no additional revenue from LI schemes due to the introduction of the two-part tariff structure proposed at the State level.

#### ***Commission's Analysis and Ruling***

5.2.5 It is pertinent to mention that the general principle of tariff structure is to have two-part tariff i.e., Demand Charges and Energy Charges. It has been the endeavour of the Commission to determine two-part tariff to the HT consumer categories. With substantial load addition due to the ongoing lift irrigation schemes in the State, two-part tariff for lift irrigation schemes ensures that the fixed cost obligation of power purchase to meet the demand of lift irrigation schemes is recovered to some extent. The main stakeholder in this regard, namely ICAD, GoTS, has also welcomed the proposal of the DISCOMs to introduce two-part tariff for lift irrigation schemes but has reservations on the tariff and the terms and conditions proposed by the DISCOMs. Hence, the Commission accepts the proposal of the DISCOMs to introduce two-part tariff for HT IV(A) category.

5.2.6 The DISCOMs submitted that the tariff proposal has been made so that revenue neutrality is maintained at the State level i.e., there is no additional revenue combined for the two DISCOMs on account of their tariff proposal for HT IV(A) category. The Commission has approved the sales for HT IV(A) category at a lower level than that claimed by the Petitioner considering the expected load addition on account of the new lift irrigation schemes.

5.2.7 The Commission finds that the Demand Charges proposed by the DISCOMs are at par with the Demand Charges applicable for other HT consumer categories. Considering the larger public interest due to the lift irrigation schemes, the

Commission has determined the two-part tariff as follows:

**Table 5.2: Tariff approved by the Commission for HT IV(A) category**

Particulars	Proposed by the DISCOMs	Approved by the Commission
Demand Charges	Rs. 390/kVA/month	Rs. 165/kVA/month
Energy Charges	Rs. 4.88/kVAh	Rs. 5.80/kVAh

5.2.8 The terms and conditions for billing of Demand Charges approved by the Commission are as shown below:

Proposed terms and conditions for billing of Demand Charges	Terms and conditions for billing of Demand Charges approved by the Commission
<ol style="list-style-type: none"> <li>1. Demand Charges would be levied on 80% of Contracted Maximum Demand (CMD) or Recorded Maximum Demand (RMD) for operational months – July to November (5 months).</li> <li>2. Demand Charges would be levied on 30% of CMD or RMD for non-operational months – December to June (7 months).</li> </ol>	<ol style="list-style-type: none"> <li>1. Demand Charges would be levied on higher of 80% of Contracted Maximum Demand (CMD) or Recorded Maximum Demand (RMD) for operational months – July to November (5 months).</li> <li>2. Demand Charges would be levied on higher of 20% of CMD or RMD for non-operational months – December to June (7 months).</li> </ol>

### 5.3 TARIFF OF HT VIII (RESCO)

#### *Commission's Analysis and Ruling*

- 5.3.1 The Commission has been determining the tariff to RESCO category at 11 kV, after adjusting the revenue deficit of that category with the cross subsidy available from other consumer categories. Accordingly, the current tariff applicable to RESCO category as per the Tariff Order for FY 2017-18 is Rs. 1.00/kWh. Currently, there is one consumer under RESCO category namely, The Co-operative Electric Supply Society Limited, Siricilla in NPDCL area.
- 5.3.2 The Commission in this Order has determined the Bulk Supply Tariff for RESCO category so that the RESCO shall purchase power from the DISCOM at the Bulk Supply Tariff.
- 5.3.3 Accordingly, the Commission has determined the tariff of RESCO category as Rs. 4.52/kWh as shown below:

**Table 5.3: Tariff approved for RESCO for FY 2018-19**

S. No.	Particulars	Units	Value
1	Total power purchase quantum approved for NPDCL	MU	18084.13
2	Total power purchase cost approved for NPDCL	Rs. Crore	7508.78
3	Average power purchase cost approved for NPDCL	Rs./kWh	4.15
4	Transmission losses	%	4.46%
5	Distribution losses (33 kV)	%	4.00%
6	<b>Average power purchase cost grossed up with losses = Bulk Supply Tariff</b>	<b>Rs./kWh</b>	<b>4.52</b>

5.3.4 As shown in the above Table, the Commission has approved the Bulk Supply Tariff of Rs. 4.52/kWh for RESCO for FY 2018-19 in place of the existing tariff of Rs. 1.00/kWh. The amount of subsidy requirement to NPDCL that would be reduced on account of the Bulk Supply Tariff of Rs. 4.52/kWh has been determined as Rs. 288.82 crore which is attributable to Siricilla RESCO. This subsidy amount of Rs. 288.82 crore is inclusive of the total subsidy commitment of GoTS to NPDCL for FY 2018-19. The methodology of raising of monthly bills for the energy sold to Siricilla RESCO and the subsequent subsidy adjustment is as follows:

- i. After completion of the billing month, NPDCL shall compute the total amount due from RESCO at the approved procurement tariff of Rs. 4.52/kWh and the energy sold to RESCO.
- ii. From the total bill amount computed above, NPDCL should subtract the subsidy amount actually received from GoTS against the RESCO.
- iii. After such adjustment if any balance amount is still due to be paid by RESCO, such amount shall be billed to RESCO and RESCO should make the payment of the due amount within 1 month of receipt of the energy bill for the month.
- iv. However, after such adjustment in point (ii) above, if any balance amount is to the credit of RESCO in the books of account of NPDCL, such amount should be transferred to the RESCO within 15 days of completion of the month.
- v. NPDCL should raise the energy bills to RESCO on monthly basis clearly giving the detailed computations of amount to be recovered from or amount to be transferred to the RESCO in accordance with the procedure stipulated above.
- vi. Any delay on part of RESCO to pay the due amount to NPDCL, or NPDCL to transfer the credit amount to the RESCO within the above stipulated time shall attract interest at the rate of 18% for the period of delay on the due amount or the credit amount as the case may be. Further, if such delay exceeds 15 days, the interest for a period of 30 days should be levied by either party as applicable.
- vii. NPDCL and RESCO management should establish a suitable payment

mechanism like Escrow cover or any other suitable alternative to make sure timely payments.

#### **5.4 LEVY OF STANDBY CHARGES**

##### ***DISCOMs' submissions***

- 5.4.1 Standby arrangements could be required by Open Access consumers to tide over deficits in cases of situations such as outages of generator, transmission assets etc. In such situations the Open Access consumer has to take power from an alternate source e.g. from the DISCOM. The charges for maintaining standby arrangements for such consumers should be reflective of the costs incurred by DISCOMs for providing these support services.
- 5.4.2 The DISCOMs procure power for supply of power to consumers in the State. The Open Access consumer during the course of consumption has depended on the supply from licensee for tiding over any supply imbalances which they may face. The DISCOMs requested the Commission to determine standby charges after due consideration.

##### ***Commission's Analysis and Ruling***

- 5.4.3 The Commission directed the DISCOMs to submit its detailed proposal specifying the charges in this regard. In reply, the DISCOMs submitted that the standby charges may be designed to reflect the actual fixed cost and variable cost liability incurred by the DISCOMs to supply power to the Open Access consumers. The DISCOMs further submitted that the standby charges may be determined annually with fixed charge and variable charge components, to reflect the variation in costs over time, and in accordance with the Tariff Policy, 2016, the limit of 125% may be applied separately on the rate for fixed charges and energy charges.
- 5.4.4 Clause 8.5.6 of the Tariff Policy, 2016 specifies as under:  
*"In case of outages of generator supplying to a consumer on open access, standby arrangements should be provided by the licensee on the payment of tariff for temporary connection to that consumer category as specified by the Appropriate Commission. Provided that such charges shall not be more than 125 percent of the normal tariff of that category."*
- 5.4.5 The above stated clause of the Tariff Policy, 2016 specifies that the charges payable for standby arrangements. The DISCOMs requested the Commission to determine the standby charges comprising of fixed charge and variable charge components but have not submitted the detailed proposal. There is no clarity as to how the modalities of the standby arrangement would be worked out between the DISCOMs and the open

access consumers. In the absence of critical information, the Commission does not find merit in the prayer of the DISCOMs to determine standby charges for time being. **The Commission directs the DISCOMs to file a separate Petition for determination of standby charges with their comprehensive proposal regarding the determination and levy of standby charges.**

## 6 RETAIL SUPPLY TARIFF SCHEDULE FOR FY 2018-19

### 6.1 TARIFF PROPOSALS OF THE DISCOMS

6.1.1 The DISCOMs have proposed to retain the tariffs approved by the Commission for FY 2017-18, for FY 2018-19 except for HT IV(A) category. Accordingly, the DISCOMs have proposed the revenue deficit of Rs. 9770.98 crore for FY 2018-19 as shown in the Table below:

**Table 6.1: Revenue deficit for FY 2018-19 as filed by the DISCOMs (Rs. crore)**

Particulars		SPDCL	NPDCL	TOTAL
1.0	Revenue requirement	23518.88	12255.40	<b>35774.28</b>
2.0	Revenue (2.1 + 2.2 + 2.3 + 2.4)	19296.50	6706.80	<b>26003.30</b>
2.1	Revenue from proposed tariff	18503.91	6675.46	<b>25179.37</b>
2.2	Non-Tariff Income	35.75	31.34	<b>67.09</b>
2.3	Revenue from Cross Subsidy Surcharge	312.36	-	<b>312.36</b>
2.4	Revenue from Additional Surcharge	444.48	-	<b>444.48</b>
<b>3.0</b>	<b>Revenue Deficit (1.0 -2.0)</b>	<b>4222.38</b>	<b>5548.60</b>	<b>9770.98</b>

### 6.2 REFERENCE TARIFF SCHEDULE

6.2.1 The Commission after determining the Revenue Requirement for FY 2018-19 estimated the Revenue at current tariffs with the approved sales and the Revenue Deficit. Considering the changes in tariff approved in this Order, the Commission has determined the Reference Tariff Schedule for FY 2018-19 and estimated the revenue for each category for FY 2018-19 at the tariffs indicated in the Reference Tariff Schedule is as shown below:

**Table 6.2: Reference Tariff Schedule for FY 2018-19**

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>Low Tension</b>			
<b>LT I: Domestic</b>			
<b>LT I (A): Upto 100 Units/Month</b>			
0-50			1.45
51-100			2.60

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>LT I (B)(i): Above 100 Units/Month &amp; up to 200 Units/Month</b>			
0-100			3.30
101-200			4.30
<b>LT I (B)(ii): Above 200 Units/Month</b>			
0-200			5.00
201-300			7.20
301-400			8.50
401-800			9.00
Above 800 units			9.50
<b>LT II: Non-Domestic/Commercial</b>			
<b>LT II (A): Upto 50 Units/Month</b>			
0-50	kW	50	6.00
<b>LT II (B): Above 50 Units/Month</b>			
0-100	kW	60	7.50
101-300	kW	60	8.90
301-500	kW	60	9.40
Above 500	kW	60	10.00
<b>LT II (C): Advertisement Hoardings</b>	kW	60	12.00
<b>LT II (D): Haircutting salons consuming upto 200 units/month</b>			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
<b>LT III: Industry</b>			
Industries	kW	60	6.70
Seasonal Industries (off-season)	kW	60	7.40
Pisciculture/Prawn culture	kW	21	5.20
Sugarcane crushing	kW	21	5.20
Poultry farms	kW	50	6.00
Mushroom, Rabbit, Sheep and Goat farms	kW	60	6.30
<b>LT IV: Cottage Industries</b>			
<b>LT IV(A): Cottage Industries</b>	kW	20/kW subject to a minimum of Rs. 30/month	4.00
<b>LT IV(B): Agro Based Activities</b>	kW	20/kW subject to a minimum of Rs. 30/month	4.00
<b>LT V: Agriculture</b>			

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>LT V (A): Agriculture (DSM Measures mandatory)</b>			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
<b>LT V (B): Others</b>			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
<b>LT VI: Street Lighting &amp; PWS</b>			
<b>LT VI (A): Street Lighting</b>			
Panchayats	kW	32	6.10
Municipalities	kW	32	6.60
Municipal Corporations	kW	32	7.10
<b>LT VI (B): PWS Schemes</b>			
Panchayats	HP	32/HP subject to a minimum of Rs. 50/month	5.00
Municipalities	HP	32/HP subject to a minimum of Rs. 50/month	6.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs. 50/month	6.60
<b>LT VII: General</b>			
LT VII (A): General Purpose	kW	21	7.30
LT VII (B): Wholly Religious Places			
Load upto 2 kW	kW	21	5.40
Load above 2 kW	kW	21	6.00
<b>LT VIII: Temporary Supply</b>	kW	21	11.00
<b>High Tension</b>			
<b>HT I(A): Industry General</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
132 kV and above	kVA	390	5.65
<b>HT I(A):Lights and Fans</b>			
11 kV			6.65
33 kV			6.15
132 kV and above			5.65
<b>HT I(A):Poultry Farms</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>HT I(A):Industrial Colonies</b>			
11 kV			6.30
33 kV			6.30
132 kV and above			6.30
<b>HT I(A):Seasonal Industries</b>			
11 kV	kVA	390	7.60
33 kV	kVA	390	6.90
132 kV and above	kVA	390	6.70
<b>HT I(A):Optional Category with Load Up to 150 kVA</b>			
11 kV	kVA	80	7.00
<b>HT I: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
132 kV and above			4.65
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I (A): Poultry Farms - Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
<b>HT I(B):Ferro Alloy Units</b>			
11 kV			5.90
33 kV			5.50
132 kV and above			5.00

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>HT II OTHERS</b>			
11 kV	kVA	390	7.80
33 kV	kVA	390	7.00
132 kV and above	kVA	390	6.80
<b>HT II: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.80
33 kV			6.00
132 kV and above			5.80
<b>HT III AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>			
11 kV	kVA	390	7.50
33 kV	kVA	390	6.85
132 kV and above	kVA	390	6.45
<b>HT III: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.50
33 kV			5.85
132 kV and above			5.45
<b>HT IV (A) IRRIGATION AND AGRICULTURE</b>			
11 kV	kVA	165	5.80
33 kV	kVA	165	5.80
132 kV and above	kVA	165	5.80

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./Unit)
<b>HT IV(B) CP Water Supply Schemes</b>			
11 kV	kVA		5.10
33 kV	kVA		5.10
132 kV and above	kVA		5.10
<b>HT V (A) Railway Traction</b>	kVA	390	4.05
<b>HT V (B) HMR</b>	kVA	390	3.95
<b>HT VI Townships &amp; Residential Colonies</b>			
11 kV	kVA	60	6.30
33 kV	kVA	60	6.30
132 kV and above	kVA	60	6.30
<b>HT VII: Temporary</b>			
11 kV	kVA	500	10.80
33 kV	kVA	500	10.00
132 kV and above	kVA	500	9.80
<b>HT VIII: RESCO</b>			
11 kV			4.52

### 6.3 REVENUE AT REFERENCE TARIFFS

6.3.1 The following table shows the category wise revenue determined by the Commission for FY 2018-19 at the Reference Tariffs:

**Table 6.3: Revenue at Reference Tariffs determined by the Commission (Rs. crore)**

Consumer Category		Determined by the Commission		
		SPDCL	NPDCL	Total
<b>LT Category</b>		<b>7539.90</b>	<b>2250.80</b>	<b>9790.70</b>
Category I (A&B)	Domestic	3840.10	1098.24	<b>4938.34</b>
Category II (A, B & C)	Non-Domestic/Commercial	2559.45	665.42	<b>3224.87</b>
Category III (A&B)	Industrial	588.53	236.91	<b>825.44</b>
Category IV (A&B)	Cottage Industries & Dhobighats	3.70	3.75	<b>7.44</b>
Category V (A&B)	Irrigation & Agriculture	48.76	42.29	<b>91.05</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	442.04	168.27	<b>610.31</b>
Category VII (A&B)	General Purpose	54.92	35.93	<b>90.84</b>
Category VIII (A&B)	Temporary Supply	2.41	0.00	<b>2.41</b>
<b>HT Category at 11 kV</b>		<b>4656.54</b>	<b>1028.71</b>	<b>5685.25</b>
HT-I	Industry Segregated	2868.72	457.39	<b>3326.10</b>

Consumer Category		Determined by the Commission		
		SPDCL	NPDCL	Total
HT-I(B)	Ferro Alloys	0.00	0.00	<b>0.00</b>
HT-II	Others	1603.32	132.45	<b>1735.77</b>
HT-III	Airports, Railways and Bus Stations	4.55	6.84	<b>11.39</b>
HT-IV(A)	Lift Irrigation & Agriculture	29.04	22.39	<b>51.43</b>
HT-IV(B)	CP Water Supply Schemes	41.34	28.83	<b>70.17</b>
HT-VI	Townships and Residential Colonies	60.48	7.99	<b>68.47</b>
HT	Temporary Supply	49.10	0.00	<b>49.10</b>
HT	RESCOs	0.00	372.82	<b>372.82</b>
<b>HT Category at 33 kV</b>		<b>3211.22</b>	<b>266.39</b>	<b>3477.61</b>
HT-I	Industry Segregated	2492.89	138.98	<b>2631.88</b>
HT-I(B)	Ferro Alloys	0.00	0.00	<b>0.00</b>
HT-II	Others	608.81	17.51	<b>626.32</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	30.47	31.94	<b>62.40</b>
HT-IV(B)	CP Water Supply Schemes	44.20	51.00	<b>95.21</b>
HT-VI	Townships and Residential Colonies	34.85	26.96	<b>61.80</b>
HT	Temporary Supply	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	<b>0.00</b>
<b>HT Category at 132 kV</b>		<b>2899.74</b>	<b>2028.44</b>	<b>4928.18</b>
HT-I	Industry Segregated	1388.26	461.69	<b>1849.96</b>
HT-I(B)	Ferro Alloys	69.18	0.00	<b>69.18</b>
HT-II	Others	83.99	8.82	<b>92.81</b>
HT-III	Airports, Railways and Bus Stations	40.56	0.00	<b>40.56</b>
HT-IV(A)	Lift Irrigation & Agriculture	1129.27	1286.19	<b>2415.47</b>
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	<b>0.00</b>
HT-V(A)	Railway Traction	122.31	204.02	<b>326.33</b>
HT-V(B)	HMR	66.16	0.00	<b>66.16</b>
HT-VI	Townships and Residential Colonies	0.00	67.71	<b>67.71</b>
HT	Temporary Supply	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	<b>0.00</b>
<b>Total</b>		<b>18307.40</b>	<b>5574.34</b>	<b>23881.75</b>

6.3.2 The total revenue at reference tariffs determined by the Commission for FY 2018-19 is Rs. 23881.75 crore and considering the approved energy sales of 49720.79 MU, the average recovery of cost as per the above tariff schedule works out to Rs. 4.80/kWh.

6.3.3 The average CoS for FY 2018-19 is Rs. 6.04/kWh and the average recovery of cost through revenue realisation is Rs. 4.80/kWh, leaving a deficit of Rs. 1.24/kWh. This deficit needs to be recovered by way of other incomes/ revenues (non-tariff income, revenue from cross subsidy surcharge and revenue from additional surcharge) and the subsidy of State Government to compensate the DISCOMs for supply of electricity at subsidised rates for certain category of consumers.

#### **6.4 NON-TARIFF INCOME**

6.4.1 The non-tariff income for FY 2018-19 has been projected as Rs. 35.75 crore and Rs. 31.34 crore for SPDCL and NPDCL respectively. The Commission has considered the non-tariff income for FY 2018-19 as projected by the DISCOMs.

#### **6.5 REVENUE FROM CROSS SUBSIDY SURCHARGE**

6.5.1 The revenue from Cross Subsidy Surcharge for FY 2018-19 has been projected as Rs. 312.36 crore for SPDCL, considering the proposed Cross Subsidy Surcharge and projected open access consumption of 2159.45 MU. NPDCL has not projected any open access consumption in FY 2018-19. The Cross Subsidy Surcharge determined by the Commission for FY 2018-19 has been detailed in a separate Order. Considering the projected open access consumption of 2159.45 MU and the Cross Subsidy Surcharge approved for FY 2018-19, the Commission has determined the revenue from Cross Subsidy Surcharge as Rs. 308.80 crore for SPDCL.

#### **6.6 REVENUE FROM ADDITIONAL SURCHARGE**

6.6.1 The revenue from Additional Surcharge for FY 2018-19 has been projected as Rs. 444.48 crore for SPDCL, considering the proposed Additional Surcharge of Rs. 2.06/kWh and projected open access consumption of 2159.45 MU. NPDCL has not projected any open access consumption in FY 2018-19. The Commission has approved the Additional Surcharge of Rs. 0.52/kWh for FY 2018-19 which has been detailed in a separate Order. Considering the projected open access consumption of 2159.45 MU and the approved Additional Surcharge of Rs. 0.52/kWh, the Commission has determined the revenue from Additional Surcharge as Rs. 112.29 Crore for SPDCL.

#### **6.7 REVENUE GAP AT REFERENCE TARIFFS**

6.7.1 The revenue gap determined by the Commission at the Reference Tariffs is as shown

below:

**Table 6.4: Revenue gap at reference tariffs determined by the Commission (Rs. crore)**

Particulars		SPDCL	NPDCL	TOTAL
1.0	Revenue requirement	20161.75	9859.82	<b>30021.57</b>
2.0	Revenue (2.1 + 2.2 + 2.3 + 2.4)	18764.25	5605.68	<b>24369.93</b>
2.1	Revenue from determined tariff	18307.40	5574.34	<b>23881.75</b>
2.2	Non-Tariff Income	35.75	31.34	<b>67.09</b>
2.3	Revenue from Cross Subsidy Surcharge	308.80	-	<b>308.80</b>
2.4	Revenue from Additional Surcharge	112.29	-	<b>112.29</b>
<b>3.0</b>	<b>Revenue Deficit (1.0 -2.0)</b>	<b>1397.50</b>	<b>4254.14</b>	<b>5651.64</b>
4.0	Revenue Deficit attributable to RESCO	-	288.82	288.82
<b>5.0</b>	<b>Total Revenue Deficit (3.0+4.0)</b>	<b>1397.50</b>	<b>4542.96</b>	<b>5940.47</b>

## 6.8 FULL COST RECOVERY TARIFF SCHEDULE

- 6.8.1 The Commission after examining the cost, revenue and cross subsidy for each consumer category and considering the Reference Tariff Schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2018-19. If this FCRTS is levied on different consumer categories for consumption during FY 2018-19, the DISCOMs will be able to meet the approved revenue requirement in full.
- 6.8.2 The revenue is computed as per the Reference Tariff Schedule, for each consumer category based on the approved sales for FY 2018-19. The non-tariff income is apportioned amongst various consumer categories.
- 6.8.3 The category wise revenue including the non-tariff income is compared with the category wise cost of supply, based on the cost of service determined for the respective consumer categories. Based on the cost and revenue from each consumer category, some consumer categories are classified as subsidising if the revenue is more than the cost (surplus) and others are subsidised if the revenue is less than cost (deficit).
- 6.8.4 The sum of surplus of revenue over cost available from subsidising categories is first utilised to meet the deficit of subsidized consumer categories other than LT-I: Domestic and LT-V: Agriculture. The remaining surplus, if any, is allocated to LT – I: Domestic and LT-V: Agriculture categories in the ratio of a category’s deficit to the total deficit of these categories.

- 6.8.5 After allocation of the surplus available, the net deficit (cost for that category less revenue from the category and surplus allocated to that category) is computed for LT-I: Domestic and LT-V: Agriculture consumer categories. The net deficit computed for LT-I and LT-V categories is Rs. 5940.47 crore.
- 6.8.6 As there is no other source of revenue to meet the remaining cost, the energy rate/charge for LT-I: Domestic and LT-V: Agriculture categories is revised upwards by an amount equal to net deficit divided by approved sales. By doing so, the revenue from tariff and allocated surplus will be sufficient to meet the cost.
- 6.8.7 Following the methodology detailed above, the Commission has drawn up a Full Cost Recovery Tariff Schedule for each Licensee. If the Licensees levy the tariff as per FCRTS for FY 2018-19, they would recover the approved ARR in full. The FCRTS for FY 2018-19 is as shown below:

**Table 6.5: Full Cost Recovery Tariff Schedule for FY 2018-19**

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge (Rs./Unit)	
	Unit	Rate	SPDCL	NPDCL
<b>Low Tension</b>				
<b>LT I: Domestic</b>				
<b>LT I (A): Upto 100 Units/Month</b>				
0-50			3.26	7.61
51-100			2.60	6.68
<b>LT I (B)(i): Above 100 Units/Month &amp; up to 200 Units/Month</b>				
0-100			3.30	4.00
101-200			4.30	4.30
<b>LT I (B)(ii): Above 200 Units/Month</b>				
0-200			5.00	5.00
201-300			7.20	7.20
301-400			8.50	8.50
401-800			9.00	9.00
Above 800 units			9.50	9.50
<b>LT II: Non-Domestic/Commercial</b>				
<b>LT II (A): Upto 50 Units/Month</b>				
0-50	kW	50	6.00	6.00
<b>LT II (B): Above 50 Units/Month</b>				
0-100	kW	60	7.50	7.50
101-300	kW	60	8.90	8.90

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge (Rs./Unit)	
	Unit	Rate	SPDCL	NPDCCL
301-500	kW	60	9.40	9.40
Above 500	kW	60	10.00	10.00
<b>LT II (C): Advertisement Hoardings</b>	kW	60	12.00	12.00
<b>LT II (D): Haircutting salons consuming upto 200 units/month</b>				
0-50	kW	60	5.30	5.30
51-100	kW	60	6.60	6.60
101-200	kW	60	7.50	7.50
<b>LT III: Industry</b>				
Industries	kW	60	6.70	6.70
Seasonal Industries (off-season)	kW	60	7.40	7.40
Pisciculture/Prawn culture	kW	21	5.20	5.20
Sugarcane crushing	kW	21	5.20	5.20
Poultry farms	kW	50	6.00	6.00
Mushroom, Rabbit, Sheep and Goat farms	kW	60	6.30	6.30
<b>LT IV: Cottage Industries</b>				
Cottage Industries	kW	20	4.00	4.00
Agro Based Activities	kW	20	4.00	4.00
<b>LT V: Agriculture</b>				
<b>LT V (A): Agriculture (DSM Measures mandatory)</b>				
Corporate Farmers	HP		2.50	2.50
Other than Corporate Farmers	HP		1.37	5.48
<b>LT V (B): Others</b>				
Horticulture Nurseries with CL upto 15 HP	HP	20	4.22	4.55
<b>LT VI: Street Lighting &amp; PWS</b>				
<b>LT VI (A): Street Lighting</b>				
Panchayats	kW	32	6.10	6.10
Municipalities	kW	32	6.60	6.60
Municipal Corporations	kW	32	7.10	7.10
<b>LT VI (B): PWS Schemes</b>				
Panchayats	HP	32	5.00	5.00
Municipalities	HP	32	6.10	6.10
Municipal Corporations	HP	32	6.60	6.60
<b>LT VII: General</b>				
LT VII (A): General Purpose	kW	21	7.30	7.30
LT VII (B): Wholly Religious Places				

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge (Rs./Unit)	
	Unit	Rate	SPDCL	NPDCCL
Load upto 2 kW	kW	21	5.40	5.40
Load above 2 kW	kW	21	6.00	6.00
<b>LT VIII: Temporary Supply</b>	kW	21	11.00	11.00

<b>High Tension</b>				
<b>HT I(A): Industry General</b>				
11 kV	kVA	390	6.65	6.65
33 kV	kVA	390	6.15	6.15
132 kV and above	kVA	390	5.65	5.65
<b>HT I(A): Lights and Fans</b>				
11 kV			6.65	6.65
33 kV			6.15	6.15
132 kV and above			5.65	5.65
<b>HT I(A): Poultry Farms</b>				
11 kV	kVA	390	6.65	6.65
33 kV	kVA	390	6.15	6.15
<b>HT I(A): Industrial Colonies</b>				
11 kV			6.30	6.30
33 kV			6.30	6.30
132 kV and above			6.30	6.30
<b>HT I(A): Seasonal Industries</b>				
11 kV	kVA	390	7.60	7.60
33 kV	kVA	390	6.90	6.90
132 kV and above	kVA	390	6.70	6.70
<b>HT I(A): Optional Category with Load Up to 150 kVA</b>				
11 kV	kVA	80	7.00	7.00
<b>HT I(B): Ferro Alloy Units</b>				
11 kV			5.90	5.90
33 kV			5.50	5.50
132 kV and above			5.00	5.00
<b>HT II OTHERS</b>				
11 kV	kVA	390	7.80	7.80
33 kV	kVA	390	7.00	7.00
132 kV and above	kVA	390	6.80	6.80
<b>HT III AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>				
11 kV	kVA	390	7.50	7.50
33 kV	kVA	390	6.85	6.85

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge (Rs./Unit)	
	Unit	Rate	SPDCL	NPDCCL
132 kV and above	kVA	390	6.45	6.45
<b>HT IV(A) IRRIGATION AND AGRICULTURE</b>				
11 kV	kVA	165	5.80	5.80
33 kV	kVA	165	5.80	5.80
132 kV and above	kVA	165	5.80	5.80
<b>HT IV(B) CP Water Supply Schemes</b>				
11 kV	kVA		5.10	5.10
33 kV	kVA		5.10	5.10
132 kV and above	kVA		5.10	5.10
<b>HT V (A) Railway Traction</b>				
<b>HT V (B) HMR</b>				
<b>HT VI Townships &amp; Residential Colonies</b>				
11 kV	kVA	60	6.30	6.30
33 kV	kVA	60	6.30	6.30
132 kV and above	kVA	60	6.30	6.30
<b>HT VII: Temporary</b>				
11 kV	kVA	500	10.80	10.80
33 kV	kVA	500	10.00	10.00
132 kV and above	kVA	500	9.80	9.80
<b>HT VIII: RESCO</b>				
11 kV			-	4.52

6.8.8 In the absence of any external subsidy u/s 65 of the Electricity Act, 2003, the DISCOMs will have to charge the rates contained in the above FCRTS to generate the revenue required to meet the approved cost.

## 6.9 SUBSIDY COMMITMENT

6.9.1 The Commission has worked out the FCRTS for FY 2018-19, which the DISCOMs will have to charge in the absence of any external subsidy u/s 65 of the Electricity Act, 2003 in order to generate the revenue required to meet the approved cost.

6.9.2 In response to the Commission's letter no. TSERC/Secy/ARR 2018-19/116 dated 28.02.2018, the Special Chief Secretary to Government, Energy Department, GoTS, vide letter no. 242/Budget.A2/2018-1 dated 24.03.2018 informed that an amount of Rs. 4984.30 crore has been provisioned for reimbursement towards agriculture and allied subsidy for FY 2018-19. For the balance amount, GoTS has expressed willingness to examine at appropriate time.

- 6.9.3 As against the subsidy requirement of Rs. 5940.47 crore computed by the Commission for FY 2018-19, GoTS has informed that an amount of Rs. 4984.30 crore has been provisioned in the Budget, for reimbursement towards agriculture and allied subsidy for FY 2018-19 and the balance amount will be examined at appropriate time. Taking cognizance of the communication of GoTS, the Commission determines the Retail Supply Tariffs to be applicable for FY 2018-19, the same as per the Reference Tariff Schedule indicated above.
- 6.9.4 The DISCOMs should positively pursue for the release of the differential amount between the subsidy requirement communicated by the Commission vide its letter dated 28.02.2018 and the provisional subsidy amount communicated by GoTS vide its letter dated 24.03.2018. In case of non-commitment by GoTS for the release of the said differential amount by 30.09.2018, the DISCOMs shall file Petition(s) before the Commission seeking appropriate relief. The Commission shall take an appropriate view based on the scrutiny of the said Petition(s) of the DISCOMs.
- 6.9.5 The details of subsidy requirement computed by the Commission is as shown in the Table below:

**Table 6.6: Subsidy for FY 2018-19 (Rs. crore)**

S. No.	Consumer category	SPDCL	NPDCL	Total
1	LT I: Domestic	267.03	969.62	<b>1236.64</b>
2	LT V: Agriculture	1130.48	3284.52	<b>4415.00</b>
3	<b>Sub-total</b>	<b>1397.50</b>	<b>4254.14</b>	<b>5651.64</b>
4	RESCO (4.1+4.2)	-	288.82	288.82
4.1	<i>LT I: Domestic</i>	-	16.39	16.39
4.2	<i>LT V: Agriculture</i>	-	272.44	272.44
<b>3+4</b>	<b>Total</b>	<b>1397.50</b>	<b>4542.96</b>	<b>5940.47</b>

- 6.9.6 The Commission observed that the letter of GoTS regarding subsidy commitment is silent on the release of additional subsidy of Rs. 32.71 crore (SPDCL - Rs. 31.35 crore and NPDCL - Rs. 1.36 crore) for retaining the existing concession of Rs. 2/unit for Poultry Farms would be provided or not. However, the Commission has not considered the concession of Rs. 2/unit while approving the Retail Supply Tariffs for Poultry Farms, in this Order. If GoTS intends to extend the concession of Rs. 2/unit to Poultry Farms, the same may be directly provided to the DISCOMs.

## **6.10 RETAIL SUPPLY TARIFF SCHEDULE FOR FY 2018-19**

- 6.10.1 The Commission in accordance with the decisions detailed in the above chapters and the consent from GoTS for provisions of subsidy, hereby determines the Retail Supply

Tariffs for FY 2018-19. The Retail Supply Tariffs along with the terms and conditions approved in this Order shall be applicable w.e.f. 01.04.2018 in respect of the two DISCOMs (TSSPDCL & TSNPDCL) and Siricilla RESCO in the State of Telangana.

**Table 6.7: Retail Supply Tariff Schedule for FY 2018-19**

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
<b>Low Tension</b>			
<b>LT I: Domestic</b>			
<b>LT I (A): Upto 100 Units/Month</b>			
0-50			1.45
51-100			2.60
<b>LT I (B)(i): Above 100 Units/Month &amp; up to 200 Units/Month</b>			
0-100			3.30
101-200			4.30
<b>LT I (B)(ii): Above 200 Units/Month</b>			
0-200			5.00
201-300			7.20
301-400			8.50
401-800			9.00
Above 800 units			9.50
<b>LT II: Non-Domestic/Commercial</b>			
<b>LT II (A): Upto 50 Units/Month</b>			
0-50	kW	50	6.00
<b>LT II (B): Above 50 Units/Month</b>			
0-100	kW	60	7.50
101-300	kW	60	8.90
301-500	kW	60	9.40
Above 500	kW	60	10.00
<b>LT II (C): Advertisement Hoardings</b>	kW	60	12.00
<b>LT II (D): Haircutting salons consuming upto 200 units/month</b>			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
<b>LT III: Industry</b>			
Industries	kW	60	6.70
Seasonal Industries (off-season)	kW	60	7.40

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
Pisciculture/Prawn culture	kW	21	5.20
Sugarcane crushing	kW	21	5.20
Poultry farms	kW	50	6.00
Mushroom, Rabbit, Sheep and Goat farms	kW	60	6.30
<b>LT IV: Cottage Industries</b>			
<b>LT IV(A): Cottage Industries</b>	kW	20/kW subject to a minimum of Rs. 30/month	4.00
<b>LT IV(B): Agro Based Activities</b>	kW	20/kW subject to a minimum of Rs. 30/month	4.00
<b>LT V: Agriculture</b>			
<b>LT V (A): Agriculture (DSM Measures mandatory)</b>			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
<b>LT V (B): Others</b>			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
<b>LT VI: Street Lighting &amp; PWS</b>			
<b>LT VI (A): Street Lighting</b>			
Panchayats	kW	32	6.10
Municipalities	kW	32	6.60
Municipal Corporations	kW	32	7.10
<b>LT VI (B): PWS Schemes</b>			
Panchayats	HP	32/HP subject to a minimum of Rs. 50/month	5.00
Municipalities	HP	32/HP subject to a minimum of Rs. 50/month	6.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs. 50/month	6.60
<b>LT VII: General</b>			
LT VII (A): General Purpose	kW	21	7.30
<b>LT VII (B): Wholly Religious Places</b>			
Load upto 2 kW	kW	21	5.40
Load above 2 kW	kW	21	6.00
<b>LT VIII: Temporary Supply</b>	kW	21	11.00
<b>High Tension</b>			
<b>HT I(A): Industry General</b>			

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
132 kV and above	kVA	390	5.65
<b>HT I(A):Lights and Fans</b>			
11 kV			6.65
33 kV			6.15
132 kV and above			5.65
<b>HT I(A):Poultry Farms</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
<b>HT I(A):Industrial Colonies</b>			
11 kV			6.30
33 kV			6.30
132 kV and above			6.30
<b>HT I(A):Seasonal Industries</b>			
11 kV	kVA	390	7.60
33 kV	kVA	390	6.90
132 kV and above	kVA	390	6.70
<b>HT I(A):Optional Category with Load Up to 150 kVA</b>			
11 kV	kVA	80	7.00
<b>HT I: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
132 kV and above			4.65
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I (A): Poultry Farms - Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
<b>HT I(B):Ferro Alloy Units</b>			
11 kV			5.90
33 kV			5.50
132 kV and above			5.00
<b>HT II OTHERS</b>			
11 kV	kVA	390	7.80
33 kV	kVA	390	7.00
132 kV and above	kVA	390	6.80
<b>HT II: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.80
33 kV			6.00
132 kV and above			5.80
<b>HT III AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>			
11 kV	kVA	390	7.50
33 kV	kVA	390	6.85
132 kV and above	kVA	390	6.45
<b>HT III: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (6 PM to 10 PM)</b>			

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.50
33 kV			5.85
132 kV and above			5.45
<b>HT IV (A) IRRIGATION AND AGRICULTURE</b>			
11 kV	kVA	165	5.80
33 kV	kVA	165	5.80
132 kV and above	kVA	165	5.80
<b>HT IV(B) CP Water Supply Schemes</b>			
11 kV	kVA		5.10
33 kV	kVA		5.10
132 kV and above	kVA		5.10
<b>HT V (A) Railway Traction</b>	kVA	390	4.05
<b>HT V (B) HMR</b>	kVA	390	3.95
<b>HT VI Townships &amp; Residential Colonies</b>			
11 kV	kVA	60	6.30
33 kV	kVA	60	6.30
132 kV and above	kVA	60	6.30
<b>HT VII: Temporary</b>			
11 kV	kVA	500	10.80
33 kV	kVA	500	10.00
132 kV and above	kVA	500	9.80
<b>HT VIII: RESCO</b>			
11 kV			4.52

## 7 TERMS AND CONDITIONS OF TARIFF

- 7.1. Applicable with effect from 01.04.2018 to 31.03.2019 in respect of the two Distribution Licensees in the state of Telangana (i.e. TSSPDCL and TSNPDCL) and also Sircilla RESCO.
- 7.2. The L.T. Tariffs determined in PART 'A' and H.T tariffs determined in PART 'B' below are subject to the following two general conditions.
- Fuel Surcharge Adjustment (FSA) will be extra as applicable as notified by the Commission from time to time.
  - The Tariffs are exclusive of the Electricity duty payable as per the provisions of the AP Electricity Duty Act as adopted by the Government of Telangana.

### Part 'A' LT-Tariffs

<b>System of supply</b>	Low Tension A.C. 50 Cycles
	Three Phase Supply at 415 Volts
	Single Phase supply at 240 Volts

- 7.3. These tariffs are applicable for supply of Electricity to L.T consumers with a contracted load of 56 kW/ 75 HP and below. (However, contracted load up to 75 kW/ 100 HP will be treated as LT, for LT-III Industrial category).

### LT-I: Domestic Applicability

- 7.4. This tariff is applicable for supply of electricity for lights, fans and other domestic purposes to domestic premises. *Domestic establishment /Premises is one which is used for dwelling/ residential purpose.*

Explanation: For domestic category, the households having a separate kitchen will be treated as a separate establishment.

- 7.5. The LT Domestic consumers are divided broadly into two groups, Viz. LT-I (A), LT-I (B).
- The sub category LT I (A) shall be applicable to the consumers having consumption not exceeding 100 units per month.
  - The sub category LT-I (B) has been further sub-divided into LT-I (B)(i) and LT-I (B)(ii).
  - LT-I (B)(i) shall be applicable to the consumer with consumption of 100 units and above but not exceeding 200 units per month.

- LT-I (B)(ii) shall be applicable to the consumer having consumption of 200 units and above per month.

7.6. The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge		Energy Charge
	(Rs./ month)		Rs./kWh
	Unit	Rate	
<b>LT I: Domestic</b>			
<b>LT I (A): Not exceeding 100 Units/Month</b>			
0-50			1.45
51-100			2.60
<b>LT I (B)(i): Above 100 Units/Month &amp; not exceeding 200 Units/Month</b>			
0-100			3.30
101-200			4.30
<b>LT I (B)(ii): Above 200 Units/Month</b>			
0-200			5.00
201-300			7.20
301-400			8.50
401-800			9.00
Above 800 units			9.50

7.7. Subject to monthly minimum energy charges of  
Single phase supply:  
 Contracted load up to 1 kW: Rs. 25 per month  
 Contracted load above 1 kW: Rs. 50 per month

Three phase supply: Rs. 150 per month

### **LT-II: Non-Domestic/ Commercial**

7.8. This category has been sub-divided into LT-II (A), LT II (B), LT II (C) and LT II (D).

#### **LT-II (A) and LT-II (B)**

##### **Applicability**

- A consumer who undertakes Non-Domestic activity.
- A consumer who undertakes Commercial activity.
- A consumer who does not fall in any other LT category i.e., LT-I, LT-III to LT-VIII categories.
- Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises. For example, shops, business houses, offices, public buildings, hospitals, hostels, hotels,

choultries, restaurants, clubs, theatres, cinema halls, bus stands and attached offices, railway stations, timber depots, photo studios, printing presses, all servicing & repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units, gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of such similar nature.

- Educational institutions run by individuals, Non-Government Organizations or Private Trusts including student hostels of such educational institutions.

7.9. The sub category LT-II (A) shall be applicable to the consumers having consumption not exceeding 50 units per month.

7.10. The sub category LT II (B) shall be applicable to the consumers having consumption of 50 units and above per month.

7.11. The consumer shall be billed electricity charges as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge
	Unit	Rate	Rs./kWh or (Rs./kVAh)
<b>LT II: Non-Domestic/Commercial</b>			
<b>LT II (A): Not exceeding 50 Units/Month</b>			
0-50	kW	50	6.00
<b>LT II (B): Above 50 Units/Month</b>			
0-100	kW	60	7.50
101-300	kW	60	8.90
301-500	kW	60	9.40
Above 500	kW	60	10.00

Monthly minimum energy charges      Rs. 65 per month for single phase supply  
Rs. 200 per month for three phase supply

#### **LT-II (C): Advertising hoardings Applicability**

7.12. Electricity supply availed of through a separate(independent) connection for the purpose of advertisements, hoardings and other conspicuous consumption such as external flood light, displays, neon signs at public places (roads, railway stations, airports etc.), departmental stores, commercial establishments, malls, multiplexes, theatres, clubs, hotels and other such entertainment/leisure establishments.

7.13. The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge
----------	--------------

	(Rs./ month)		Energy Charge
	Unit	Rate	Rs./kWh or (Rs./kVAh)
<b>LT II (C): Advertisement Hoardings</b>	kW	60	12

Subject to a monthly minimum energy charge of Rs. 300 per month.

#### **LT-II (D): Hair cutting Salons** **Applicability**

7.14. The tariff is applicable for supply of electricity to hair cutting salons with consumption not exceeding 200 units per month. For consumers whose consumption exceeds 200 units per month shall be billed under LT-II (B) sub-category.

7.15. The consumer shall be billed electricity charges as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge
	Unit	Rate	Rs./kWh or (Rs./kVAh)
<b>LT II (D): Haircutting salons consuming not exceeding 200 units/ month</b>			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50

**Monthly minimum energy charges**

Rs. 65 per month for single phase supply

Rs. 200 per month for three phase supply

#### **LT-III: Industry** **Applicability**

7.16. The tariff is applicable for supply of electricity to Low Tension Industrial consumer with a Contracted load of 75 kW/ 100 HP and below. Industrial purpose shall mean, supply for purpose of manufacturing, processing and/or preserving goods for sale, but shall not include shops, business houses, offices, public buildings, hospitals, hotels, hostels, choultries, restaurants, clubs, theaters, cinemas, bus stations, railway stations and other similar premises, notwithstanding any manufacturing, processing or preserving goods for sale.

7.17. This tariff shall also apply to:

- i. Water Works & Sewerage Pumping Stations operated by the Government Departments or Co-operative Societies and pump sets of Railways, pumping of

water by industries as subsidiary function and sewerage pumping stations operated by local bodies and Drinking Water filtering plants using only Reverse Osmosis (R.O.) process.

- ii. Workshops (involving activity of manufacturing), bus depots of TSRTC, servicing and repairing centres of TSRTC, flour mills, oil mills, saw mills, coffee grinders and wet grinders, Ice candy units with or without sale outlets, Goshalas, grass cutting and fodder cutting units.
- iii. The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by the Government of Telangana State.
- iv. Newspaper printing unit.
- v. Poultry Farming Units.
- vi. Pisciculture and Prawn culture units.
- vii. Mushroom production units, Rabbit Farms, Sheep Farms and Goat Farms other than those coming under LT-IV with load exceeding 10 HP.
- viii. Sugar cane crushing.

7.18. The tariff rates for LT-III: Industry are shown below

Category	Fixed Charge (Rs./ month)		Energy Charge
	Unit	Rate	Rs./kWh or (Rs./kVAh)
<b>LT III: Industry</b>			
Industries	kW	60	6.70
Pisciculture / Prawn culture	kW	21	5.20
Sugarcane crushing	kW	21	5.20
Poultry farms	kW	50	6.00
Mushroom, Rabbit, Sheep and Goat farm	kW	60	6.30
<ul style="list-style-type: none"> <li>• 1 HP = 0.75 kW</li> <li>• For the purpose of billing, 1 kVA shall be treated as being equal to 1 kW.</li> </ul>			

- Where the metering is on HT side, 1% of total energy consumed shall be deducted from recorded energy for the purpose of billing.
- No manufacturing/ production certification shall be required, if the poultry farm has no in-house manufacturing activity such as feed mills. Poultry farms are exempted from general condition of 3 HP minimum load for releasing the service.
- No manufacturing/ production certification shall be required for drinking water filtering plants using Reverse Osmosis (R.O.) process.

**Rates for seasonal industries under LT-III**

7.19. Where a consumer avails supply of energy under LT- III for manufacture of sugar or ice or salt, decorticating, seed processing, fruit processing, ginning and pressing, cotton seed oil mills, tobacco processing and re-drying and for such other industries or processes as may be approved by the Commission from time to time principally during certain seasons or limited periods in the tariff year and if the main plant is regularly closed down during certain months of the tariff year, such consumer may be charged for the months during which the plant is shut down (**which period shall be referred to as the off-season period**) as follows.

7.20. The LT-III off-season tariff rates are

**Fixed charge**

On 30% of contracted load Rs. 60/ kW/ Month

**Energy charges**

For energy consumed at kVAh or kWh: Rs. 7.40

- If the metering is on HT side, 1% of total energy consumed shall be deducted from recorded energy for the purpose of billing.

**LT-IV (A): Cottage Industries****Applicability**

7.21. Applicable for supply of energy to Dhobighats & bonafide (as certified by D.E/operations) small Cottage Industries specifically Power looms, Carpentry, Blacksmithy, Kanchari, Gold smithy, Shilpi, Pottery, Mochi, Phenyl production units, Agarbathi production units, Wax Candle making units, Papads manufacturing units, Leather Chappals making, Soap Industry, Plaster of Paris units, Laque Toy making units, Pop Toys, Wood carving/toy making units, Pickles manufacturing, Mango jelly units, Adda leaf plate industry having connected load not exceeding 10 HP including incidental lighting in the premises.

7.22. The consumer shall be billed electricity charges/tariff as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kWh)
	Unit	Rate	
<b>LT IV (A): Cottage Industries</b>	kW	Rs. 20/- per month per kW of contracted load subject to a minimum of Rs. 30/- per month	4.00
Note: Units which exceed 10 HP connected load shall be billed at tariff specified for LT-III Industry category.			

**LT-IV (B): Agro Based Activities****Applicability**

7.23. This tariff is applicable to bonafide (as certified by DE/Operations) small-agro based industrial units located in rural areas covering Sisal fibre extraction co-operative units, Vermiculture, Sericulture, Mushroom growing, Rabbit farming, Sheep farming, Goat farming, Emu Birds farming, Apiculture (honey making), Chaff-cutting, Millets making and Dairy farming activities, with connected load upto 10 HP (including incidental lighting load).

7.24. The consumer shall be billed electricity charges/tariff as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kWh)
	Unit	Rate	
<b>LT IV (B): Agro Based Activities</b>	kW	Rs. 20 /- per month per kW of contracted load subject to a minimum of Rs. 30/- per month	4.00
Note: Units which exceed 10 HP connected load shall be billed at tariff specified for LT-III Industry category.			

### **LT-V: Agricultural Applicability**

#### **LT-V (A): Agricultural**

7.25. This tariff shall apply to the following:

Corporate Farmer (includes poly-houses/ green-houses):

- A consumer registered under the Companies Act 1956 or 2013
- A consumer who is a partnership firm or a Limited Liability Partnership
- Association of persons, Co-operative society and Body of Individuals
- Any permanent Reinforced Cement Concrete (RCC) roof structures not exclusively used for the purposes of farming or storage and located in the farm lands such as farm houses or any other place of dwelling shall be charged in accordance with applicable tariffs.

Other than Corporate Farmer: Individual farmer or Joint Family Farmer including poly-houses/green-houses who are individuals or joint families.

This category is applicable only to those consumers who undertake agricultural activity including floriculture. The agricultural activities undertaken in green houses/ poly-houses shall also be included in this category.

7.26. The charges applicable to LT-V (A): Agricultural **with mandatory DSM measures** are shown below:

Category	Fixed Charge (Rs./ year)		Energy Charge (Rs./ kWh)
	Unit	Rate	
<b>LT V (A): Agricultural</b>			
Corporate Farmer	HP		2.50
Other than Corporate Farmer	HP		0.00

7.27. The charges/tariff applicable for **LT-V (B): Others** are shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kWh)
	Unit	Rate	
<b>LT V (B): Others</b>			
Horticulture Nurseries with CL up to 15 HP	HP	20	4.00

Explanation: Horticulture Nurseries with connected load of more than 15 HP shall be billed under LT-III: Industry (General) tariff.

#### **LT-VI: Street lighting and PWS schemes**

##### **Applicability**

7.28. Applicable for supply of energy for lighting on public roads, streets, thoroughfares including Parks, Markets, Cart-stands, Taxi stands, Bridges and also for PWS schemes in the Local Bodies viz., Panchayats/Municipalities/Municipal Corporations. Metering is compulsory irrespective of tariff structure.

7.29. The charges for LT-VI (A): Street lighting are as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./kWh)
	Unit	Rate	
<b>LT VI (A): Street Lighting</b>			
Panchayats	kW	32	6.10
Municipalities	kW	32	6.60
Municipal Corporations	kW	32	7.10

7.30. The charges/tariff for LT-VI (B): PWS schemes are as shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kVAh or Rs./ kWh)
	Unit	Rate	
<b>LT VI (B): PWS Schemes</b>			
Panchayats	HP	Rs. 32/HP of contracted load subject to a minimum of Rs. 50/-	5.00
Municipalities	HP	Rs. 32/HP of contracted load subject to a minimum of Rs. 100/-	6.10
Municipal Corporations	HP	Rs. 32/HP of contracted load subject to a minimum of Rs. 100/-	6.60

**LT-VII: General****LT-VII (A): General purpose  
Applicability**

- 7.31. Applicable for supply of energy to places of worship like Churches, Temples, Mosques, Gurudwaras, Crematoriums which are not covered under LT-VII (B), Government Educational Institutions and Student Hostels run by Government agencies, Charitable Institutions i.e., Public charitable trusts and societies registered under the Societies Registration Act running educational and medical institutions *on a no profit basis*, recognized service institutions and registered Old age homes.
- 7.32. The charges applicable are shown below.

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kVAh or Rs./ kWh)
	Unit	Rate	
<b>LT VII (A): General Purpose</b>	kW	21	7.30
<b>Note:</b> Trivector meters shall be provided for all 10 kW and above load services. Energy charges shall be billed on kVAh <i>for all 10 kW &amp; above services</i> . For loads below 10 kW, energy charges shall be billed on kWh basis.			

Monthly minimum energy charges:  
supply

Rs. 50 per month for single phase

Rs. 150 per month for three phase  
supply

**LT-VII (B): Wholly Religious places  
Applicability**

- 7.33. Applicable for supply of energy to places of worship (namely Churches, Temples, Mosques, Gurudwaras) and Crematoriums.

Applicability of this category shall be subject to the following conditions:

- i. The religious institution owning the place of worship should run such place of worship on no profit basis.
- ii. The religious institution should be registered under the Income Tax Act, 1961.
- iii. The premise for the place of worship shall be structurally distinct from the premises running the activities other than the places of worship.
- iv. The premise for the purpose shall not be owned by any individual (name) but shall be owned by a religious institution or association of a community i.e. a class of persons not less than 15 distinct individuals, having their names registered under one place of worship only.

7.34. Premises with a connected load of more than 2 kW shall also be covered but consumption shall not exceed 500 units in any month, otherwise they will be billed under the LT-VII (A) General Purpose category.

7.35. The charges/tariff applicable are shown below.

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kVAh or Rs./ kWh)
	Unit	Rate	
<b>LT VII (B): Wholly Religious Places</b>			
Load upto 2 kW	kW	21	5.40
Load above 2 kW	kW	21	6.00
Note: Trivector meters shall be provided for all 10 kW and above load services. Energy charges shall be billed on kVAh for all 10 kW & above services. For loads below 10 kW, energy charges shall be billed on kWh basis.			

7.36. Minimum monthly charges shall not be levied on this sub-category.

**LT-VIII: Temporary supply Applicability**

7.37. Construction activities like construction of all types of structures/infrastructure such as residential /commercial buildings (height of 10 meters and above), bridges, flyovers, dams, power stations, roads, aerodromes, tunnels for laying of pipelines, etc. The relevant tariff for temporary supply shall be applicable during the phase of construction. Construction activities of structures of height less than 10 meters will fall under LT-II and HT-II, as relevant.

7.38. Exhibitions, Circuses, Outdoor film shootings, Touring talkies, Make-shift pandals for festivals, Make shift pandals for public gatherings and such other similar activities that are set up in open areas with no permanent structure.

7.39. For buildings above 10 meters height regular supply shall be provided with a regular supply upon submission of occupancy certificate / completion certificate as per Para 21 of Hyderabad Revised Building Rules, 2006 issued vide erstwhile Andhra Pradesh G.O.Ms.No.86 dated 03.03.2006 or by any other municipal authority in the State of Telangana and on payment of the required charges.

7.40. The charges applicable are shown below

Category	Fixed Charge (Rs./ month)		Energy Charge (Rs./ kVAh or Rs./ kWh)
	Unit	Rate	
<b>LT VIII: Temporary Supply</b>	kW	21	11.00
Note: Trivector meters shall be provided for all 10 kW and above load services. Energy charges shall be billed on kVAh for all 10 kW & above services. For loads below 10 kW, energy charges shall be billed on kWh basis.			

7.41. A monthly minimum energy charge at Rs. 125 per kW or part thereof of the contracted load for first 30 days or part thereof and for every subsequent period of 15 days or part thereof a charge of Rs. 75 per kW to be levied.

### Terms and conditions of LT supply

#### 7.42. General conditions of LT tariff

- i. Fuel Surcharge Adjustment (FSA) shall be extra as applicable and as notified by the Commission from time to time.
- ii. For Categories LT-I, II and VII supply shall be extended on a single phase only up to 5 kW of Contracted Load.
- iii. The Tariffs are exclusive of Electricity duty payable as per the provisions of the AP Electricity Duty Act as adopted by the Government of Telangana State.
- iv. The Licensee shall have the right to classify or re-classify the category of supply of energy to any premises under an appropriate category of L.T. Tariff.

#### 7.43. Additional charges for belated payments of charges

- i. The C.C. bills shall be paid by the consumers within the due date mentioned in the bill, i.e., 15 days from and including the date of the bill.
- ii. If payment is made after due date in case of LT- I (A), LT-I (B), LT-II(A), LT-II(D), LT-IV and LT-V(B), the consumers are liable to pay Delayed Payment Surcharge (DPS) per month on the bill amount at the rates given in table below.

LT-I (A)	Rs. 10 per month
LT-I (B), LT-II (A), LT-II (D), LT-IV and LT-V (B)	Rs. 25 per month

- iii. In case of LT- II(B), LT-II(C), LT-III, LT-VI and LT-VII, the Licensee shall levy Delayed Payment Surcharge (DPS) on the bill amount at the rate of 5 paisa/ Rs. 100/ day calculated from the due date mentioned on the bill, up to the date of payment or Rs. 150/- whichever is higher. In case of grant of instalments, the Licensees shall levy interest at the rate of 18% per annum on the outstanding amounts compounded annually and the two (DPS and Interest) shall not be levied at the same time.

- iv. Where the C.C. bills amount is not paid within 15 days from the due date the power supply is liable for disconnection.
- v. For re-connection of power supply after disconnection, the consumer has to pay reconnection fee. The re-connection charges shall not be collected without actual disconnection.

**Category wise specific conditions of LT tariff**

**LT-I: Domestic**

- 7.44. Where electricity supplied to domestic premises is required to be used for non-domestic or commercial purposes, a separate connection should be taken for such loads under LT-II category, failing which the entire supply shall be charged at LT-II category tariff, apart from liability for penal charges as per the terms and conditions of the supply.
- 7.45. For common services like water supply, common lights in corridors and supply for lifts in multistoried buildings, consumers shall be billed electricity charges as follows:
  - i. At LT-I (B)(ii) if the plinth area occupied by the domestic consumers is 50% or more of the total plinth area.
  - ii. At LT-II (B), if the plinth area occupied by the domestic consumers is less than 50% of the total plinth area.
  - iii. If the service in a flat is for domestic purpose, it shall be charged at LT-I (Domestic) as applicable. If the service in a flat is for commercial or office use or any other purpose, which does not fall under any of LT-I and/or LT III to VIII, it shall be charged at LT-II (A), II (B) or II (D) Non-Domestic/Commercial as applicable.
- 7.46. Single Point LT services released to residential complexes of State Government/Central Government Departments under specific orders of Licensee with Contracted Load/ Connected Load in excess of 56 kW/ 75 HP shall continue to be billed under LT-I (B) Domestic tariff slab rate applicable based on the average monthly energy consumption per each authorized dwelling i.e., total energy consumption in the month divided by the number of such dwelling units, in the respective residential complexes. The above orders are subject to the following conditions, namely:
  - i. Orders are applicable to Police Quarters and other State/Central Government residential complexes specifically sanctioned by the Licensee.

Provided that, it is at the request of the designated officer, who shall give an unconditional undertaking that he will pay up the bill for CC charges

to the Licensee irrespective of collection from the individual occupants.

- ii. The consumers shall be billed at the appropriate slab rate in tariff, based on the average monthly consumption per dwelling unit in the complex.
  - iii. Meter reading shall be taken monthly in all such cases.
  - iv. Customer charges calculated at corresponding rate applicable slab-wise per month for each dwelling unit shall be billed.
- 7.47. Where an individual consumer seeks to avail of supply for Domestic purpose with a connected load of over 56 kW/75 HP, such consumers may be given supply under this category subject to the following conditions.
- i. The metering shall be provided by the DISCOMs on HT side of the distribution transformer.
  - ii. Meter reading shall be done monthly and the energy recorded in the HT metering shall be billed at tariff rates under LT-I (B)(ii).

#### **LT-II: Non-Domestic/ Commercial**

- 7.48. For loads 10 kW and above, a LT tri-vector meter shall be provided and energy charges shall be billed on kVAh.
- 7.49. For loads below 10 kW, the billing shall be based on kWh only.
- 7.50. In respect of the complexes having connected load of more than 56 kW / 75 HP released under specific orders of Licensee for a Single Point Bulk supply, where such complex is under the control of a specified organization/ agency taking responsibility to pay monthly current consumption bills regularly and abide by the Terms and Conditions of supply as per the agreement, the billing shall be done at the highest slab tariff rate under LT-II (B). The energy shall be measured on the High Tension side of the transformer. Where energy measured on LT side of the transformer, 3% of the recorded energy during the month shall be added to arrive at the consumption on High Tension side of the transformer.

#### **LT-III: Industry**

- 7.51. The connected load shall not exceed the contracted load specified in the agreement as per sanction accorded for the service. The fixed charges shall be computed based on the contracted Load or actual Recorded Demand whichever is higher. For the purpose of billing, 1 kVA shall be treated as being equal to 1 kW.

- 7.52. **Sugarcane Crushing:** Sugar cane crushing operations will be allowed under the existing agricultural connections with the specific permission from DE (Operation) concerned.
- 7.53. **Metering and load Conditions**
- i. A LT Tri-vector meter shall be provided for the consumers with contracted load of 15 kW/ 20 HP to 37.5 kW/ 50 HP.
  - ii. For loads above 37.5 kW/ 50 HP to 75 kW/ 100 HP, the metering shall be provided on HT side of the Distribution Transformer.
  - iii. Energy charges shall be billed on kVAh basis, for all consumers with contracted load of 15 kW/ 20 HP and above. For loads below 15 kW/ 20 HP, billing shall be done based on kWh.
  - iv. Where the recorded demand of any service connection under this category exceeds the 75 kVA (1 kVA = 1 kW), such excess demand shall be billed at the demand charge prescribed under HT-I (11 kV supply).
  - v. Where metering is provided on LT side of transformer (due to space constraints), 3% of the recorded energy during the month shall be added to arrive at the consumption on High Tension side of the transformer.

#### **Seasonal industries**

- 7.54. Consumers, classified as seasonal load consumers, who are desirous of availing of the seasonal benefits shall specifically declare their season at the time of entering into the agreement that their loads should be classified as seasonal loads.
- 7.55. The period of season shall not be less than 4(four) continuous months. However, consumer can declare a longer seasonal period as per actuals.
- 7.56. Existing eligible consumers who have not opted earlier for availing of seasonal tariffs will also be permitted to opt for seasonal tariff on the basis of application to the concerned Divisional Engineer of the Licensee.
- 7.57. A consumer, who desires to have a change in the period classified as “season” declared by him, shall file a declaration at least a month before commencement of the respective tariff year.
- 7.58. The seasonal period once notified cannot be changed, during one Tariff year.

- 7.59. The off-season tariff is not available to composite units having seasonal and other categories of loads.
- 7.60. Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that tariff year.
- 7.61. Development charges as applicable to regular LT consumers shall be paid by the consumers for availing of supply under the above said category with seasonal benefits. The consumers who have paid the development charges already as regular consumers need not pay the development charges.

**LT-V: Agriculture**

- 7.62. Agricultural consumers are permitted to use one lamp of 15 watts or three lamps of 5 watts each, near the main switch as pilot lamps.
- 7.63. Supply to the L.T. Agricultural services will be suitably regulated as notified by the Licensee from time to time.
- 7.64. DSM Measures includes frictionless foot valve, capacitor of adequate rating, HDPE or RPVC piping at suction and/or delivery and ISI marked mono-block or submersible pump set.
- 7.65. All new connections shall be given only if the farmer uses a five (5) star rated pump and complies with the DSM measures and with meters.

**LT-VI: Street lighting and PWS scheme**

**LT-VI (A): Street lighting**

- 7.66. The cost of fittings shall be borne or paid for by the Local bodies. The responsibility for maintenance including renewals and replacements rests with the Local bodies viz., Panchayats, Municipalities, Municipal Corporations etc.,
- 7.67. Where the cost of fittings is borne by the Licensee, the first supply of filament lamps, fluorescent tubes, mercury vapor lamps including special type lamps along with their fittings will be made by the Licensee at its cost. In such cases, consumer (Local bodies) will have to pay fixed charges. However, where the cost of fittings is borne by the consumer but maintenance is done by the Licensee, the consumer will have to pay the fixed charges. The details of the fixed charges to be paid in each case are

detailed below:

S. No.	Fittings for	Fixed charges Per Month where the cost of fittings is borne by Licensee	Fixed charges per month where the cost of fittings is borne by the Local Body but maintenance by Licensee
		Rs.	Rs.
1	Ordinary Filament Lamp	2	1
2	Fluorescent Lamp 40 W Single Fixture	7	4
3	Fluorescent Lamp 40 W Double Fixture	8	4
4	M.V. Lamps 80 W Fixture	12	6
5	M.V. Lamps 125 W Fixture	15	8
6	M.V. Lamps 250 W Fixture	45	23
7	M.V. Lamps 400 W Fixture	50	25

7.68. The replacement of filament lamps, fluorescent tubes, mercury vapor and other special type of lamps will be done by the Local Body at its cost. However, in urban areas till such time the Municipalities and Corporations make their own arrangements for such replacements the Licensee may, if the consumer so desires, carry out the replacement provided the Local Body supplies the lamps and tubes. The consumer will in such cases be billed for labour charges at the rate of Rs. 2 per replacement. However, in rural areas, such replacement of bulbs supplied by the Local Body will be made by the Licensee without collecting labour charges. For this purpose the area coming under Gram Panchayat shall constitute the 'Rural Area'.

7.69. **Additional charges:** Every local body shall pay an additional charge equivalent to any tax or fee levied by it under the provisions of any law including the Corporation Act, District Municipalities Act or Gram Panchayat Act on the poles, lines, transformers and other installations through which the local body receives the supply.

#### **LT-VIII: Temporary supply**

7.70. Temporary supply can be given on the request of a consumer initially for a period of up to one year as per the tariff applicable under the temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.

7.71. Requests for temporary supply of energy cannot be considered unless there is a clear notice of at least one week in the case of domestic and three months in case of other types of supply. If supply is required at a short notice, in addition to the charges mentioned below, an urgency charge, as specified in miscellaneous charges is also to be paid.

- 7.72. Estimated cost of the works means the cost of works for making the necessary arrangements for supplying energy including the cost of distribution lines, switchgear, metering equipment, etc., as may be worked out on the basis of standards and norms prescribed by the Licensee, from time to time plus cost of dismantling the lines and other works when the supply is no more required less the cost of retrievable material.
- 7.73. (a) Estimated cost of the works, as detailed above, shall be paid by the consumer in advance. After the works are dismantled and retrievable materials returned to stores, a bill for the actual amount payable by the consumer shall be prepared and the difference shall be collected from or refunded to the consumer, as the case may be. No development charges shall be collected for temporary supply.
- (b) In addition to the aforesaid charges payable by consumers availing of temporary supply, they shall pay hire charges at 2% on cost of retrievable material per month or part thereof, for the duration of temporary supply. These charges shall be claimed along with the consumption bills.
- 7.74. (a) The consumer requiring supply on temporary basis shall be required to deposit in advance, in addition to the estimated cost of works, the estimated consumption charges at the rate stipulated in Tariff Order for Temporary supply, and worked out on the basis for use of electricity by the consumer for six (6) hours per day for a period of two (2) months in case the supply is required for more than ten (10) days. If the period of temporary supply is for ten (10) days or less, the advance consumption charges for the actual period requisitioned shall be paid.
- (b) The Bill for electricity consumed in any month shall be prepared at the tariff applicable plus hire charges as mentioned above in 7.73(b). The consumers have to pay monthly CC charges regularly during the period of availing of temporary supply and the estimated energy consumption deposit shall be adjusted with the last month consumption and the balance if any shall be refunded.
- (c) In the case of consumers requiring temporary supply for the purposes of Cinema, the estimated energy charges for a minimum period of three (3) months shall have to be deposited by the consumer subject to the condition that the consumer shall pay every month energy and other miscellaneous charges for the preceding month and the amount deposited by him in advance shall be adjusted with the last month consumption and the balance amount shall be refunded.
- (d) In the event of estimated energy charges deposited by the consumer having been

found insufficient, the consumer shall deposit such additional amount, as may be demanded by the Licensee failing which the Licensee may discontinue the supply of electricity.

**7.75. Estimated cost of works and estimated energy charges:**

These charges shall be paid in advance by the consumer in accordance with the procedure prescribed above.

**7.76. Regular consumers requiring temporary additional supply:** In cases where consumers availing of regular supply of energy require additional supply for temporary period, the additional supply shall be given as a temporary service under a separate connection and charged as such in accordance with the above procedure.

**Other charges in LT  
Service connection charges**

**7.77.** The service connection charges shall be collected as per the Regulations issued by the Commission from time to time. Service connection wires for LT-V Irrigation and Agricultural purposes shall be laid collecting an amount of Rs. 25/- per HP of contracted load towards service connection charges.

**Reconnection**

<b>LT service</b>	
LT-I (A)	Rs. 25
Overhead LT services	Rs. 75
U.G. services	Rs. 200

**Testing**

<b>Installation</b>	<b>Charges</b>
The first test and inspection of a new installation or of an extension to an existing installation.	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs. 20
<b>Meter</b>	<b>Charges</b>
A.C. Single Phase Energy meter	Rs. 100
A.C. Three Phase Energy meter	Rs. 300
LT Tri Vector meter	Rs. 2,000

**Service calls**

Charges for attendance of fuse man for Low Tension Consumers	<b>Charges</b>
i. Replacing of Licensee's cut out fuses	Nil
ii. Replacing of consumer's fuses	Rs. 3

Charges for attendance of fuse man/ Wireman at the consumer's premises during any function or temporary illumination provided a Fuse man/ Wireman can be spared for such work	Rs. 100 for each day or part thereof.
Charges for infructuous visit of Licensee employees to the consumer's premises	Rs. 25 for each visit when there is no defect in Licensee's equipment

### Miscellaneous charges

Application Registration Fees	Charges
i. For LT Agricultural & Domestic	Rs. 25
ii. For all other LT Categories	Rs. 50
Revision of estimates	Rs. 10
Fee for re-rating of consumer's installation at the request of the consumer. This does not include the additional charges payable by the consumer for increasing his connected load in excess of the contracted load, as provided in General Terms and conditions of supply.	Rs. 20
Resealing of	
i. LT Meter Cut outs in the consumer's Premises	Rs. 5
ii. M.D. Indicator meters and other apparatus in the consumer's premises. For all other LT Categories	Rs. 100
The aforesaid charges do not include the additional charges payable by the consumer for breaking the seals	
For changing meter only at the request of the consumer (where it is not necessitated by increase in demand permanently)	Rs. 25
For changing or moving a meter board	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
<b>Customer charges</b>	
<b>Consumer category</b>	<b>Rs./ month</b>
<b>LT-I: Domestic (Units/ month)</b>	
0-50	Rs. 25
51-100	Rs. 30
101-200	Rs. 50
201-300	Rs. 60
301-400	Rs. 80
401-800	Rs. 80
Above 800 units	Rs. 80
<b>LT-II: Non-Domestic/ Commercial (Units/month)</b>	
0-50	Rs. 45
51-100	Rs. 55
101-300	Rs. 65
301-500	Rs. 65
Above 500 units	Rs. 65
LT-II (C): Advertisement Hoardings	Rs. 70

LT-II (D): Hair cutting Salons with consumption upto 200 units per month	
0-50	Rs. 45
51-100	Rs. 55
101-300	Rs. 65
LT-III: Industry up to 20 HP	Rs. 75
LT-III: Industry 21-50 HP	Rs. 300
LT-III: Industry 51-100 HP	Rs. 1125
LT IV: Cottage Industries	Rs. 45
LT V: Agriculture	Rs. 30
LT VI: Street Lighting & PWS	Rs. 50
LT-VII: General purpose	Rs. 60
LT-VIII: Temporary supply	Rs. 65
Urgency charges for temporary supply at short notice	Rs. 100
Special rates chargeable for theft/pilferage and malpractice cases	As per the <b>General Terms and Conditions of Supply (GTCS)</b> approved by the Commission from time to time.
<b>Supervision/Inspection &amp; checking charges</b>	<b>Charges</b>
i. For LT I(A) Domestic	Rs. 100
ii. For LT I(B) Domestic	Rs. 100
iii. LT Agricultural	Rs. 100
iv. For all other LT Categories	Rs. 100

### Miscellaneous works in LT

7.78. The charges for any work which the Licensee may be required to undertake for the consumer and which is not included in the foregoing schedule, shall be the actual cost of labour and material plus 25% on cost of labour and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

### Power factor apparatus and capacitor surcharge for LT

7.79. Every LT consumer not provided with Tri-vector meters, except LT-I Domestic, using induction motors and/or welding transformers shall install shunt capacitors of the rating specified by the Licensees in the General Terms and Conditions of supply (GTCS) approved by the Commission from time to time. In case the rated capacity of the induction motor or welding transformer falls in between the steps of the stipulated ratings, the capacitors suitable for the next higher step shall be installed by the consumer.

7.80. The failure on part of the consumer with the above requirement shall be treated as

violation of the terms and conditions of supply and the Licensee can terminate the contract and collect the sum equivalent to the minimum charges for the balance initial period of agreement, apart from disconnection of supply as provided in the General Terms and Conditions of Supply.

- 7.81. In the case of LT consumers (except LT Domestic, LT-IV, LT-VI (A), LT-VII (B)) not covered by kVAh billing, if during inspection, no capacitor is found, or the capacitors already installed are found damaged or having defect or ceased to function, such consumer shall be liable to pay capacitor surcharge at 25% of the monthly bill amount, as per the terms and conditions of supply notified by the licensee and Licensees shall not levy LPF surcharge.
- 7.82. LT consumers, except LT-I Domestic, who are provided with metering capable of measuring active and reactive power under the orders of the Commission, shall maintain their power factor preferably in between 0.95 lag and 0.95 lead in the interest of the system security. The consumers should not maintain the power factor on leading side less than 0.95. If any consumer maintains the power factor less than 0.95 lead for a period of 2 consecutive months, it must be brought back in the range of  $\pm 0.95$  within a period of 3 months failing which without prejudice to such other rights as having accrued to the Licensee or any other right of the Licensee, the supply to the consumer may be discontinued. However, for the purpose of kVAh billing leading kVArh shall be blocked.

**Part 'B'**  
**HT-Tariffs**

- 7.83. These tariffs are applicable for supply of Electricity to HT consumers, having loads with a contracted demand of 70 kVA and above and/or having a contracted load exceeding 56 kW/ 75 HP, excluding LT-III industrial categories. For LT-III Industrial category having contracted load of more than 100 HP, the HT tariffs are applicable.

**HT-I: Industry  
Applicability**

- 7.84. This tariff is applicable for supply to all HT consumers using electricity for industrial purpose. Industrial purpose shall mean manufacturing, processing and/or preserving goods for sale, but shall not include shops, Business Houses, Offices, Public Buildings, Hospitals, Hotels, Hostels, Choultries, Restaurants, Clubs, Theatres, Cinemas, Printing Presses, Photo Studios, Research & Development Institutions, Airports, Bus Stations, Railway Stations and other similar premises (The enumeration above is illustrative but not exhaustive) not withstanding any manufacturing,

processing or preserving goods for sale.

7.85. This tariff shall also apply to:

- i. Water Works & Sewerage Pumping Stations operated by the Government Departments or Co-operative Societies and pump sets of Railways, pumping of water by industries as subsidiary function and sewerage pumping stations operated by local bodies.
- ii. Workshops (involving activity of manufacturing), bus depots of TSRTC, servicing and repairing centres of TSRTC, cold storages, flour mills, oil mills, saw mills, Ice candy, Ice manufacturing units with or without sale outlets.
- iii. These shall not be included in HT I (A) category: All servicing & repairing centres other than that of TSRTC, bus depots other than that of TSRTC, gas/oil storage/transfer stations, warehouses/ godowns/ storage units (except for cold storages), etc.
- iv. The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by Government Telangana State.
- v. Newspaper printing units.
- vi. Poultry Farming Units.
- vii. Pisciculture and Prawn culture units.

#### **HT-I (A): Industry – General**

7.86. A time of day tariff of Rs. 1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff of (incentive) of Rs. 1.00 per kVAh to the normal energy charges at respective voltages is applicable during the night time i.e. from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

7.87. The normal energy charges applicable (for this category **other than Poultry farms**) between 10:00 am and 06:00 pm are as follows.

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
<b>HT I(A): Industry General</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
132 kV and above	kVA	390	5.65
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

7.88. The energy charges applicable (for this category other than Poultry farms) during the peak hours and night time hours are shown below.

Category	Demand Charge (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (10 PM to 06 AM)</b>			
11 kV			5.65
33 kV			5.15
132 kV and above			4.65

**HT-I (A): Industry – General – Optional Category for contract maximum demand upto 150 kVA**

7.89. This Optional category is applicable to HT-I –Industry-General consumers whose contracted maximum demand is up to 150 kVA and availing supply at 11 kV only. The consumers who qualify under this category are free to opt to remain under HT-1(A) or choose this Optional sub-category.

7.90. The charges applicable are as follows.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I(A): Industry – General – Optional Category for contract maximum demand upto 150 kVA</b>			
11 kV	kVA	80	7.00

\* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand

**HT-I (A): Industry – General - Poultry farms**

7.91. A time of day tariff of Rs. 1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during the peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs. 1.00 per kVAh to the normal energy charges at respective voltages is applicable during the night time i.e. from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am and 06:00 pm.

7.92. The normal energy charges applicable for Poultry farms, between 10:00 am and 06:00

pm are as follows.

Category	Demand Charge * (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I(A):Poultry Farms</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

7.93. The energy charges applicable for Poultry farms, during the peak hours and night time hours is shown below.

Category	Demand Charge (Rs./month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I: Time of Day Tariffs (10 PM to 06 AM)</b>			
11 kV			5.65
33 kV			5.15

### Colony consumption

7.94. The consumption of energy exclusively for the residential colony/ township in a month, separately metered with meters installed by the consumer and tested and sealed by the Licensee shall be billed at Rs. 6.30 per kVAh.

7.95. In case segregation of colony consumption has not been done, 15% of the total energy consumption shall be billed at Rs. 6.30 per kVAh and the balance kVAh shall be charged at the corresponding energy tariff under HT-I (A): Industry - General.

7.96. Wherever possible colonies of Industry shall be given a separate HT service under HT-VI: Townships and Residential Colonies.

### Seasonal Industries coming under HT-I (A)

7.97. Where a consumer avails supply of energy for manufacture of sugar or ice or salt, decorticating, ginning and pressing, cotton seed oil mills, seed processing, fruit processing, tobacco processing and re-drying and for such other industries or processes as may be approved by the Commission from time to time principally during certain seasons or limited periods in the tariff year and the main plant is

regularly closed down during certain months, such consumer shall be charged for the months during which the plant is shutdown (which period shall be referred to as the **off-season period**) as follows.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I(A): Seasonal Industries</b>			
11 kV	kVA	390	7.60
33 kV	kVA	390	6.90
132 kV and above	kVA	390	6.70
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand. Billing Demand is based on Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher.			

### HT-I (B): Ferro Alloys

Category	Demand Charge * (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT I(B): Ferro Alloy Units</b>			
11 kV			5.90
33 kV			5.50
132 kV and above			5.00
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

### HT-II: Others Applicability

7.98. This tariff is applicable to:

- a) All HT Consumers other than those covered under HT Categories I and III to VII.
- b) Consumers who undertake Non Domestic activity,
- c) Consumers who undertake Commercial activity,
- d) Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises. For example shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, timber depots, photo studios, printing presses, all servicing & repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units. Gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of similar nature and
- d) Educational institutions run by individuals, Non-Government Organizations or Private Trusts and their student hostels are also classified under this category.

7.99. A time of day tariff of Rs. 1.00 per kVAh in addition to the normal energy charges at

respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs. 1.00 per kVAh to the normal energy charges at respective voltages is applicable during the night time i.e. from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

7.100. The normal energy charges applicable for HT-II Others, between 10:00 am and 06:00 pm are as follows.

Category	Demand Charge * (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT II Others</b>			
11 kV	kVA	390	7.80
33 kV	kVA	390	7.00
132 kV and above	kVA	390	6.80
* Demand charge is calculated at Rs./ kVA/ month of the billing demand			

7.101. The energy charges applicable for HT-II Others, during the peak hours and night time hours is shown below.

Category	Demand Charge (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT II: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (6 PM to 10PM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (10 PM to 06 AM)</b>			
11 kV			6.80
33 kV			6.00
132 kV and above			5.80

Explanation: In respect of Government controlled Auditoriums and Theatres run by public charitable institutions for purpose of propagation of art and culture which are not let out with a profit motive and in respect of other Public Charitable Institutions rendering totally free service to the general public and the crematoriums operated and maintained by the local bodies, the overall kVAh rate (including customer charges) may be limited to the tariff rates under LT-VII: General purpose, in specific cases as decided by the Licensee.

### HT-III: Airports, Railway stations and Bus stations Applicability

7.102. This tariff is applicable to Airports, Railway stations and Bus stations.

7.103. A time of day tariff of Rs. 1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs. 1.00 per kVAh to the normal energy charges at respective voltages is applicable during the night time i.e. from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

7.104. The normal energy charges applicable for HT-III Airports, Railway stations and Bus stations, between 10:00 am to 06:00 pm are as follows.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT III Airports, Bus stations and Railway stations</b>			
11 kV	kVA	390	7.50
33 kV	kVA	390	6.85
132 kV and above	kVA	390	6.45
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

7.105. The energy charges applicable for HT-III Airports, Railway stations and Bus stations, during the peak hours and night time hours is shown below.

Category	Demand Charge (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT III: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (10 PM to 06 AM)</b>			
11 kV			6.50
33 kV			5.85
132 kV and above			5.45

### HT-IV: Irrigation & CPWS

### HT-IV (A): Lift irrigation Applicability

7.106. This tariff is applicable to lift irrigation schemes managed by the Government of Telangana State and for consumers availing of HT supply for Irrigation and Agricultural purposes.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT IV(A): Irrigation and Agriculture</b>			
11 kV	kVA	165	5.80
33 kV	kVA	165	5.80
132 kV and above	kVA	165	5.80
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

7.107. Demand Charges would be levied on higher of 80% of Contracted Maximum Demand (CMD) or Recorded Maximum Demand (RMD) for operational months – July to November (5 months).

7.108. Demand Charges would be levied on higher of 20% of CMD or RMD for non-operational months – December to June (7 months).

### HT-IV (B): Composite Protected Water Supply schemes Applicability

7.109. This tariff is applicable to energy consumption by HT services pertaining to Composite Protected Water Supply (CPWS) schemes in rural areas. The composite PWS schemes shall be as defined and modified by the Commission from time to time.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT IV(B): CPWS</b>			
11 kV			5.10
33 kV			5.10
132 kV and above			5.10
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

Subject to a minimum charge of Rs. 300/ kVA/ year.

### HT-V: Railway traction

#### HT-V (A): Railway Traction Applicability

7.110. This tariff is applicable to HT Railway Traction (other than Hyderabad Metro Rail traction load).

Category	Demand Charge*		Energy (Rs./ kVAh)
	(Rs./ month)		
	Unit	Rate	
<b>HT V (A) Railway Traction</b>	kVA	390	4.05
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

**HT-V (B): Hyderabad Metro Rail  
Applicability**

- 7.111. This tariff is available for HMR to run its operations (other than construction projects) to the extent of following:
- Traction load.
  - Access pathways to the station such as elevators, staircases (including escalators) and platforms used for the purposes of boarding the train.
  - Enabling areas such as ticket counters, station office, operation/control rooms, depots and public washrooms located within the station premises (excluding areas allotted for vehicle parking).

Category	Demand Charge*		Energy Charge (Rs./ kVAh)
	(Rs./ month)		
	Unit	Rate	
<b>HT V (B) HMR</b>	kVA	390	3.95
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

Explanation: The commercial load (other than that in the above clause) at HMR stations and other HMR premises including any retail counters that are set up under the Telangana Shops and Establishments Act, 1988 shall be metered and billed separately as per the relevant tariff category.

**HT-VI: Townships and residential colonies  
Applicability**

- 7.112. This tariff is applicable exclusively for (i) Townships and Residential colonies or Cooperative group housing societies who own the premises and avail of supply at single point for making electricity available to the members of such society residing in the same premises at HT, (ii) any person who avails of supply at single point at HT for making electricity available to his employees residing in contiguous premises, the supply in all cases being only for domestic purposes, such as lighting, fans, heating etc., provided that the connected load for common facilities such as non-domestic supply in residential area, street lighting and water supply etc., shall be within the

limits specified hereunder.

Water Supply & Sewerage and Street Lighting put together	10% of total connected load
Non-domestic/Commercial & General purpose put together	10% of total connected load

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT VI Townships &amp; Residential Colonies</b>			
11 kV	kVA	60	6.30
33 kV	kVA	60	6.30
132 kV and above	kVA	60	6.30
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

### HT-VII: Temporary supply Applicability

- 7.113. Construction activities like construction of all types of structures/infrastructure such as residential /commercial buildings (height of 10 meters and above), bridges, fly-overs, dams, power stations, roads, aerodromes, tunnels for laying of pipelines, etc. The relevant tariff for temporary supply shall be applicable during the phase of construction. Construction activities of structures of height less than 10 meters will fall under LT-II and HT-II, as relevant.
- 7.114. Exhibitions, circuses, outdoor film shootings, touring talkies, make-shift pandals for festivals, make-shift pandals for public gatherings and such other similar activities that are set up in open areas with no permanent structure.
- 7.115. For buildings above 10 meters in height regular supply shall be provided upon submission of occupancy certificate / completion certificate as per Para 21 of Hyderabad Revised Building Rules, 2006 issued vide erstwhile Andhra Pradesh G.O.Ms.No.86 dated 03.03.2006 and any other municipal authority in the State of Telangana and on payment of required charges.

Category	Demand Charge* (Rs./ month)		Energy Charge (Rs./ kVAh)
	Unit	Rate	
<b>HT VII: Temporary</b>			
11 kV	kVA	500	10.80
33 kV	kVA	500	10.00
132 kV and above	kVA	500	9.80
* Demand charge is calculated at Rs./ kVA/ month of the Billing Demand			

### HT Rural Electric Co-Operative Societies (RESCO)

Category	Demand Charge (Rs./ month)	Energy Charge (Rs./ kWh)

Category	Unit	Rate	
<b>HT VIII: RESCO - Sircilla</b>			
11 kV			4.52

- i. RESCO, being a Licensee, shall, as far as possible maintain a power factor of  $\pm 0.95$  at its drawl points.
- ii. No penal charges shall be made applicable.
- iii. Customer charge is not applicable.

#### **Terms and conditions of HT supply**

7.116. Fuel Surcharge Adjustment (FSA) is applicable in accordance with the provisions of the Electricity Act, 2003.

7.117. The tariffs are exclusive of the Electricity duty payable as per the provisions of the AP Electricity Duty Act as adopted by Government of Telangana.

#### **7.118. Voltage of Supply**

The voltage at which supply has to be availed by:

- i. HT consumers, seeking to avail of supply on common feeders shall be: For Total Contracted Demand with the Licensee and all other sources.

Up to 1500 kVA	11 kV
1501 kVA to 5000 kVA	33 kV
Above 5000 kVA	132 kV or 220 kV as may be decided by Licensee

- ii. HT Consumers seeking to avail of supply through independent feeders from the substations where transformation to required voltage takes place shall be:

For total contracted Demand with the licensees and all other sources.

Up to 2500 kVA	11 kV
2501 kVA to 10,000 kVA	33 kV
Above 10,000 kVA	132 kV or 220 kV as may be decided by Licensee

The relaxations are subject to the fulfilment of the following conditions:

- a) The consumer should have an exclusive dedicated feeder from the substation where transformation to required voltage takes place.
- b) The consumer shall pay full cost of the service line including take off arrangements at substation.

7.119. The voltage surcharge for FY 2018-19 has been withdrawn.

**7.120. Maximum demand**

The maximum demand of supply of electricity to a consumer during a month shall be twice the largest number of kilo-volt- ampere hours (kVAh) delivered at the point of supply to the consumer during any consecutive 30 minutes in the month. However, for the consumers having contracted demand above 4,000 kVA the maximum demand shall be four times the largest number of kilo-volt-ampere-hours (kVAh) delivered at the point of supply to the consumer during any consecutive 15 minutes in the month.

**7.121. Billing demand**

The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher, except HT-VI category i.e., Townships & Residential Colonies. For HT-VI category the minimum billing demand shall be the recorded maximum demand condition of 80% Contract Maximum Demand is not applicable.

**7.122. Monthly minimum charges**

Every consumer whether he consumes energy or not shall pay monthly minimum charges calculated on the billing demand plus energy charges specified for each category in this Part (B) to cover the cost of a part of the fixed charges of the Licensee.

7.123. Additional charges for maximum demand exceeding the contracted demand.

7.124. In case, in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his Contracted Demand with the Licensee, the consumer shall pay the following charges on excess demand recorded and on the entire energy consumed.

<b>RMD over CMD</b>	<b>Demand charges on excess demand</b>	<b>Energy charges on full energy</b>
100 to 120%	2 times of normal charge	Normal
Above 120% and up to 200%	2 times of normal charge	1.15 times of normal charge
More than 200%	2 times of normal charge	1.20 times of normal charge

In case of HT-V (A) & HT-V (B): Railway Traction and Hyderabad Metro Rail, the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, *if RMD exceeds 120% of Contracted Demand.*

**7.125. Additional charges for belated payment of charges**

The Licensees shall charge the Delayed Payment Surcharge (DPS) per month on the

bill amount at the rate of 5 paise/ Rs. 100/ day or Rs. 550 whichever is higher. In case of grant of installments, the Licensee shall levy interest at the rate of 18% per annum on the outstanding amounts, compounded annually and the two charges shall not be levied at the same time.

**7.126. Customer charges**

Every HT consumer shall pay customer charges as applicable to them, in addition to demand and energy charges billed.

**7.127. Maintenance of power factor at consumer end**

HT consumers, who are provided with metering capable of measuring active and reactive power under the orders of the Commission, shall maintain their power factor preferably in between 0.95 lag and 0.95 lead in the interest of the system security. The consumers should not maintain the power factor on leading side less than 0.95. If any consumer maintain the power factor less than 0.95 lead for a period of 2 consecutive months, it must be brought back in the range of  $\pm 0.95$  within a period of 3 months failing which without prejudice to such other rights as having accrued to the licensee or any other right of the Licensee the supply to the consumer may be discontinued. However, for the purpose of kVAh billing leading kVARh shall be blocked.

**Category wise specific condition of HT Tariff**

**HT-I: Industry**

**HT-I (A): Industry – General**

7.128. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.

7.129. Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand, whichever is higher.

7.130. The power plants availing power for start-up power shall pay demand charges at the rate of 50% of the rate approved for this category.

**HT-I (B): Ferro Alloy**

7.131. Guaranteed energy off-take at 6,701 kVAh per kVA per annum on Average Contracted Maximum Demand or Average Actual Demand, whichever is higher. The energy falling short of 6,701 kVAh per kVA per annum will be billed as deemed consumption. This shall be calculated on an annual basis and not on a monthly basis and disconnection periods shall be exempted while computing the minimum off-take

energy.

**HT-I (A): Industry – Seasonal Industries**

- 7.132. Consumers, classified as seasonal load consumers, who are desirous of availing of the seasonal benefits shall specifically declare their season at the time of entering into agreement that their loads should be classified as seasonal loads.
- 7.133. The period of season shall not be less than 4 (four) continuous months. However, consumer can declare longer seasonal period as per actual.
- 7.134. Consumer, who desires to have a change in the period classified as “season” declared by him, shall file a declaration at least a month before commencement of the respective tariff year.
- 7.135. Existing eligible consumers who have not opted earlier for seasonal tariffs will also be permitted to opt for seasonal tariff on the basis of application to the Divisional Engineer concerned of the respective Licensee.
- 7.136. The seasonal period once notified cannot be changed, during one Tariff year.
- 7.137. The off-season tariff is not available to composite units having seasonal and other categories of loads.
- 7.138. The off-season tariff is also not available for such of those units who have captive generation exclusively for process during season and who avail supply from Licensee for miscellaneous loads and other non-process loads.
- 7.139. Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that year.
- 7.140. Development charges as applicable to regular HT consumers shall be paid by the consumers for availing supply under the above said category with seasonal benefits. Consumers who have paid the development charges already as regular consumers need not pay the development charges.

**HT-II: Others**

- 7.141. The billing demand shall be the maximum demand recorded during the month or 80%

of the contracted demand, whichever is higher.

7.142. Energy charges will be billed on the basis of actual Energy consumption or 25 kVAh per kVA of Billing Demand, whichever is higher.

7.143. The power plants availing power for start-up power shall pay demand charges at the rate of 50% of the rate approved for this category.

**HT-III: Airports, Railway stations and Bus stations**

7.144. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher.

7.145. Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand whichever is higher.

**HT-IV: Lift Irrigation, Agriculture and CPWS**

7.146. The metering is mandatory for this category i.e. HT-IV (A) & HT-IV (B).

**HT-V: Railway Traction**

7.147. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.

7.148. Energy charges will be billed on the basis of actual energy Consumption or 32 kVAh per month per kVA of Contracted Demand whichever is higher.

**HT-VI: Townships and residential colonies**

7.149. The billing demand shall be the recorded maximum demand during the month.

7.150. Energy Charges will be billed on the basis of actual consumption or 25 kVAh per kVA of Contracted Demand, whichever is higher.

7.151. The above provisions shall not in any way affect the right of a person residing in the housing unit sold or leased by such Cooperative Group Housing Society, to demand supply of electricity directly from the distribution licensee of the area.

**HT-VII: Temporary supply**

7.152. (a) Temporary supply can be given initially for a period up to one year as per the tariff

applicable under temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.

(b) The billing demand for Temporary supply shall be contracted demand or recorded maximum demand registered during the month whichever is higher.

7.153. Requests for temporary supply of energy cannot be considered unless there is a clear notice of at least one week in the case of domestic and three months in case of other types of supply. If supply is required at a short notice, in addition to the charges mentioned below, an urgency charge, as specified in miscellaneous charges is also to be paid.

7.154. Estimated cost of the works means the cost of works for making necessary arrangements for supplying energy including the cost of distribution lines, switchgear, metering equipment, etc., as may be worked out on the basis of standards and norms prescribed by the Licensee, from time to time plus cost of dismantling the lines and other works when the supply is no more required less the cost of retrievable material.

7.155. (a) Estimated cost of the works, as detailed above, shall be paid by the consumer in advance. After the works are dismantled and retrievable materials returned to stores, a bill for the actual amount payable by the consumer shall be prepared and the difference would be collected from or refunded to the consumer, as the case may be. No development charges shall be collected for temporary supply.

(b) In addition to the aforesaid charges payable by consumers availing temporary supply, they shall pay hire charges at 2% on cost of retrievable material per month or part thereof, for the duration of temporary supply. These charges will be claimed along with the consumption bills.

7.156. (a) The consumer requiring supply on temporary basis shall be required to deposit in advance, in addition to the estimated cost of works mentioned in 7.155(b), the estimated consumption charges at the rate stipulated in Tariff Order for Temporary supply, and worked out on the basis for use of electricity by the consumer for 6 hours per day for a period of 2 months in case the supply is required for more than 10 days. If the period of temporary supply is for 10 days or less, the advance consumption charges for the actual period requisitioned shall be paid.

(b) The bill for electricity consumed in any month shall be prepared at the tariff applicable plus hire charges as mentioned above. The consumers have to pay monthly CC charges regularly during the period of availing temporary supply and the estimated energy consumption deposit shall be adjusted with the last month consumption and the balance if any shall be refunded.

(c) In the case of consumers requiring temporary supply for the purposes of Cinema, the estimated energy charges for a minimum period of three (3) months shall have to be deposited by the consumer subject to the condition that the consumer shall pay every month energy and other miscellaneous charges for the preceding month and the amount deposited by him in advance shall be adjusted with the last month consumption and the balance amount shall be refunded.

(d) In the event of estimated energy charges deposited by the consumer having been found insufficient, the consumer shall deposit such additional amount, as may be demanded by the Licensee failing which the Licensee may discontinue the supply of electricity.

7.157. **Existing consumers requiring temporary supply or temporary increase in supply:** If any consumer availing regular supply of electricity at High Tension requires an additional supply of electricity at the same point for a temporary period, the temporary additional supply shall be treated as a separate service and charged as per clause 1 above of HT Temporary supply, subject to the following conditions.

7.158. (a) The contracted demand of the temporary supply shall be the billing demand for that service. The recorded demand for the regular service shall be arrived at by deducting the billing demand for the temporary supply from the maximum demand recorded in the month.

(b) The total energy consumed in a month including that relating to temporary additional supply, shall be apportioned between the regular and temporary supply in proportion to the respective billing demands.

### **Others charges in HT**

#### **Service connection charges**

7.159. The service connection charges shall be collected as per the Regulations issued by the Commission from time to time.

#### **Reconnection charges**

<b>HT</b>	
11 kV	Rs. 1,000
33 kV	Rs. 2,000

132/ 220 kV	Rs. 3,000
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**Testing charges**

<b>Consumer Installation</b>	
The first test and inspection of a new installation or of an extension to an existing installation.	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs. 200
<b>HT Meter</b>	Rs. 3,000
<b>Transformer Oils</b>	
For each sample of Oil	Rs. 150

**Miscellaneous charges**

Application Registration Fees	Rs. 100
For changing meter only at the request of the consumer (where it is not necessitated by increase in demand permanently)	Rs. 100
For changing or moving a meter board	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
<b>Customer charges</b>	
<b>Consumer category</b>	<b>Rs./ month</b>
HT Consumer at 11 kV	Rs. 1,685
HT Consumers at 33 kV	Rs. 1,685
HT Consumers at 132 kV and above	Rs. 3,370
Urgency charges for temporary supply at short notice	Rs. 200
Special rates chargeable for theft/pilferage and malpractice cases	As per the <b>General Terms and Conditions of Supply (GTCS)</b> approved by the Commission from time to time.
Supervision/Inspection & checking charges	Rs. 600

**Miscellaneous works in HT**

7.160. The charges for any work which the Licensee may be required to undertake for the consumer and which is not included in the foregoing schedule, shall be the actual cost of labour and material plus 25% on cost of labour and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

7.161. The Commission has decided to reduce the minimum agreement period from two years to one year. In the due course the necessary amendment will be issued under

the General Terms and Conditions of Supply (GTCS) and in the relevant regulations by the Commission.

- 7.162. The abstract of the tariff rates determined above, together with the terms & conditions governing the same is enclosed at **Annexure 1**.
- 7.163. The rates indicated in the Retail Supply Tariff Schedule for FY 2018-19, together with the terms and conditions prescribed there under shall be applicable in the areas of operation of two Distribution Companies viz., Southern Power Distribution company of T.S. Limited (TSSPDCL), Northern Power Distribution company of T.S. Limited (TSNPDCL) and Rural Electric Co-operative Society, Sircilla for the FY 2018-19 with effect from 01.04.2018 to 31.03.2019.

## **8 COMMISSION'S DIRECTIVES**

### **A: EARLIER DIRECTIVES**

#### **8.1 IMPORTED COAL**

8.1.1 The DISCOMs are directed to verify whether imported coal is being procured through competitive bidding process, or under any guidelines issued in this regard by GoI, before admitting the Station wise power purchase bills.

#### **8.2 QUALITY OF DOMESTIC COAL**

8.2.1 The DISCOMs are directed to verify that the GCV of coal for which the price is being paid by its contracted generating stations should not be less than the minimum of the range of GCV specified for that particular grade.

#### **8.3 TRANSPORTATION OF FAILED TRANSFORMERS**

8.3.1 The DISCOMs shall ensure that the transportation of failed transformers is done at the cost of DISCOMs. In case, vehicle provided to sub-division, for this purpose, is unable to meet the requirement, replacement of failed DTRs should be done by hiring a private vehicle for this purpose only. For hiring the vehicles (the tractor trailers are available in villages) where ever necessary, the schedule of rates either on kilometre basis or on per day basis may be fixed. The DISCOMs are directed to submit the measures taken in this regard and expenditure incurred towards the same on half yearly basis.

#### **8.4 SEGREGATION OF LOADS IN AIRPORT**

8.4.1 The Licensee is directed to segregate aviation activity loads and non-aviation activity loads of the consumer (GMR International Airport at Hyderabad) at the DISCOM metering point itself so as to have separate metering for both categories of loads in order to bill under appropriate category and submit the report to the Commission by the end of June 30, 2018. The Licensee is also directed to conduct a study on the load pattern of aviation activity for computing the cost of service as directed earlier.

8.4.2 The electricity consumed by the billboards outside the airport should be billed separately.

### **B: CURRENT YEAR DIRECTIVES**

#### **8.5 SUBMISSION OF TARIFF PROPOSALS**

8.5.1 The DISCOMs are directed to submit the ARR and Tariff proposals on time i.e. by 30th November of current year in order to make the Tariff Order effective from 1st April of the next year.

## **8.6 AUTOMATIC STARTERS FOR AGRICULTURAL CONSUMPTION**

- 8.6.1 In view of the State Government's initiative to provide 24-hours power supply for agricultural consumers, the DISCOMs are directed to do away with the usage of automatic starters so as to regulate the consumption of electricity. A detailed report of the same shall be submitted by 30.06.2018.

## **8.7 METERING OF ELECTRICITY CONSUMPTION BY POLY-HOUSES AND GREEN HOUSES**

- 8.7.1 In the Retail Supply Tariff Order for FY 2017-18, the Commission had approved the inclusion of poly-houses and green-houses in LT V category. These consumers should be metered and the number of consumers, connected load and consumption by those consumers should be reported separately in the tariff filings.

## **8.8 FURNISHING OF SUBSIDY AMOUNT BORNE BY THE STATE GOVERNMENT IN CONSUMER BILLS**

- 8.8.1 The DISCOMs are directed to furnish the subsidy amount borne by the State Government, in the consumer bills of the applicable LT I (Domestic) category consumers. The per unit subsidy amount to be furnished in the consumer bills should be the difference of the CoS (in Rs./kWh) determined by the Commission for LT I category and the average tariff (in Rs./kWh) paid by the respective consumer.

## **8.9 PROCUREMENT OF SHORT-TERM POWER**

- 8.9.1 Procurement of power to meet demand on short-term basis shall always be on competitive bidding.

## **8.10 STANDBY CHARGES FOR OPEN ACCESS**

- 8.10.1 The Commission directs the DISCOMs to file a separate Petition for determination of standby charges with their comprehensive proposal regarding the determination and levy of standby charges.

## **8.11 POOR DISTRIBUTION INFRASTRUCTURE**

- 8.11.1 Several stakeholders have expressed concerns regarding the sagging distribution lines, absence of AB switches and lack of protection for the DTRs. The DISCOMs are directed to take measures for providing adequate protective measures for the distribution infrastructure. The DISCOMs are directed to submit an action plan on the measures proposed to address the aforementioned issues within 3 months of issue of this Order. The DISCOMs are further directed to submit the progress of the proposed

measures on half yearly basis.

- 8.11.2 Several stakeholders have expressed concerns that the poor distribution infrastructure is the main cause of electrical accidents. The DISCOMs are directed to submit a detailed report on its root-cause analysis of the electrical accidents in their respective supply areas during FY 2017-18 and the preventive measures adopted (at the place of accident as well as in the other areas of supply) for preventing such accidents within 3 months of issue of this Order.

## **8.12 RELEASE OF EX-GRATIA IN CASES OF ELECTRICAL ACCIDENTS**

- 8.12.1 Several stakeholders have expressed concerns that the ex-gratia for affected parties due to electrical accidents is not being released promptly. The Commission directs the DISCOMs to strive to release the ex-gratia to the affected parties due to electrical accidents promptly. The applicants should be provided with a unique identification number upon receipt of application and status of the same should be intimated to the applicant and status of the application should be made available on the respective DISCOM's website.

## **8.13 SUBMISSION OF DULY FILLED MIS FORMS**

- 8.13.1 The Commission has designed and communicated MIS formats to both the DISCOMs in which data is to be furnished as per their periodicity mentioned. It has been observed that the Licensees are not complying to the timelines stipulated by the Commission in furnishing the requisite information. The Licensees are directed to furnish the requisite information, in electronic form as well as one printed copy, the specified formats within 15 days of the stipulated time intervals.

## **8.14 PARTICIPATION IN UDAY SCHEME**

- 8.14.1 The DISCOMs shall submit the copy of detailed action plan, to the Commission, as stipulated in UDAY MoU to achieve the projected trajectory for AT&C loss and ACS-ARR gap by September 30, 2018.
- 8.14.2 The DISCOMs shall endeavour to reduce the AT&C losses to 9.90% and 10.00% for NPDCL and SPDCL respectively by FY 2018-19, as per the targets set forth in UDAY MoU. Further the DISCOMs are also directed to submit quarterly AT&C loss reports (division / circle wise).
- 8.14.3 The DISCOMs are directed to submit a quarterly progress report on operational milestones specified in DDUGJY & IPDS.

- 8.14.4 The DISCOMs shall achieve 100% DTR metering, 100% feeder metering, physical feeder segregation as stipulated in UDAY MoU and submit a quarterly report on the same.
- 8.14.5 The DISCOMs shall undertake the energy audit up to 11 kV level in rural areas by 31.03.2018 and furnish a report on energy audit by April 30, 2018.
- 8.14.6 The DISCOMs shall replace 10% of existing agricultural pump sets with energy efficient pump sets as stipulated in UDAY MoU and submit a quarterly progress report on the same.

**The Order is corrected and signed on this day the 27<sup>th</sup> March, 2018.**

**Sd/-  
(H. SRINIVASULU)  
MEMBER**

**Sd/-  
(ISMAIL ALI KHAN)  
CHAIRMAN**

**ANNEXURE 1: ABSTRACT OF THE RETAIL SUPPLY TARIFFS APPROVED  
BY THE COMMISSION**

(Applicable with effect from 01.04.2018 to 31.03.2019 in respect of the two Distribution Licensees (TSSPDCL & TSNPDCL) in the State of Telangana and the Rural Electricity Supply Co-operative Society, Siricilla in the State)

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
<b>Low Tension</b>			
<b>LT I: Domestic</b>			
<b>LT I (A): Upto 100 Units/Month</b>			
0-50			1.45
51-100			2.60
<b>LT I (B)(i): Above 100 Units/Month &amp; up to 200 Units/Month</b>			
0-100			3.30
101-200			4.30
<b>LT I (B)(ii): Above 200 Units/Month</b>			
0-200			5.00
201-300			7.20
301-400			8.50
401-800			9.00
Above 800 units			9.50
<b>LT II: Non-Domestic/Commercial</b>			
<b>LT II (A): Upto 50 Units/Month</b>			
0-50	kW	50	6.00
<b>LT II (B): Above 50 Units/Month</b>			
0-100	kW	60	7.50
101-300	kW	60	8.90
301-500	kW	60	9.40
Above 500	kW	60	10.00
<b>LT II (C): Advertisement Hoardings</b>	kW	60	12.00
<b>LT II (D): Haircutting salons consuming upto 200 units/month</b>			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
<b>LT III: Industry</b>			
Industries	kW	60	6.70
Seasonal Industries (off-season)	kW	60	7.40
Pisciculture/Prawn culture	kW	21	5.20
Sugarcane crushing	kW	21	5.20
Poultry farms	kW	50	6.00
Mushroom, Rabbit, Sheep and Goat farms	kW	60	6.30
<b>LT IV: Cottage Industries</b>			
<b>LT IV(A): Cottage Industries</b>	kW	20/kW subject to a minimum of Rs.30/month	4.00

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
<b>LT IV(B): Agro Based Activities</b>	kW	20/kW subject to a minimum of Rs.30/month	4.00
<b>LT V: Agriculture</b>			
<b>LT V (A): Agriculture (DSM Measures mandatory)</b>			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
<b>LT V (B): Others</b>			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
<b>LT VI: Street Lighting &amp; PWS</b>			
<b>LT VI (A): Street Lighting</b>			
Panchayats	kW	32	6.10
Municipalities	kW	32	6.60
Municipal Corporations	kW	32	7.10
<b>LT VI (B): PWS Schemes</b>			
Panchayats	HP	32/HP subject to a minimum of Rs.50/month	5.00
Municipalities	HP	32/HP subject to a minimum of Rs.100/month	6.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs.100/month	6.60
<b>LT VII: General</b>			
LT VII (A): General Purpose	kW	21	7.30
LT VII (B): Wholly Religious Places			
Load upto 2 kW	kW	21	5.40
Load above 2 kW	kW	21	6.00
<b>LT VIII: Temporary Supply</b>	kW	21	11.00
<b>High Tension</b>			
<b>HT I(A): Industry General</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
132 kV and above	kVA	390	5.65
<b>HT I(A):Lights and Fans</b>			
11 kV			6.65
33 kV			6.15
132 kV and above			5.65
<b>HT I(A):Poultry Farms</b>			
11 kV	kVA	390	6.65
33 kV	kVA	390	6.15
<b>HT I(A):Industrial Colonies</b>			
11 kV			6.30
33 kV			6.30
132 kV and above			6.30
<b>HT I(A):Seasonal Industries</b>			
11 kV	kVA	390	7.60

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
33 kV	kVA	390	6.90
132 kV and above	kVA	390	6.70
<b>HT I(A):Optional Category with Load Up to 150 kVA</b>			
11 kV	kVA	80	7.00
<b>HT I: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
<b>HT I: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
132 kV and above			4.65
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I (A): Poultry Farms - Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			7.65
33 kV			7.15
<b>HT I (A): Poultry Farms - Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			5.65
33 kV			5.15
<b>HT I(B):Ferro Alloy Units</b>			
11 kV			5.90
33 kV			5.50
132 kV and above			5.00
<b>HT II OTHERS</b>			
11 kV	kVA	390	7.80
33 kV	kVA	390	7.00
132 kV and above	kVA	390	6.80
<b>HT II: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.80
33 kV			8.00
132 kV and above			7.80
<b>HT II: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.80
33 kV			6.00
132 kV and above			5.80
<b>HT III AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>			
11 kV	kVA	390	7.50

Category	Fixed/Demand Charge (Rs./Month)		Energy Charge
	Unit	Rate	(Rs./kWh or Rs./kVAh)
33 kV	kVA	390	6.85
132 kV and above	kVA	390	6.45
<b>HT III: Time of Day Tariffs (6 AM to 10 AM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (6 PM to 10 PM)</b>			
11 kV			8.50
33 kV			7.85
132 kV and above			7.45
<b>HT III: Time of Day Tariffs (10 PM to 6 AM)</b>			
11 kV			6.50
33 kV			5.85
132 kV and above			5.45
<b>HT IV (A) IRRIGATION AND AGRICULTURE</b>			
11 kV	kVA	165	5.80
33 kV	kVA	165	5.80
132 kV and above	kVA	165	5.80
<b>HT IV(B) CP Water Supply Schemes</b>			
11 kV			5.10
33 kV			5.10
132 kV and above			5.10
<b>HT V (A) Railway Traction</b>	kVA	390	4.05
<b>HT V (B) Hyderabad Metro Rail (HMR)</b>	kVA	390	3.95
<b>HT VI Townships &amp; Residential Colonies</b>			
11 kV	kVA	60	6.30
33 kV	kVA	60	6.30
132 kV and above	kVA	60	6.30
<b>HT VII: Temporary</b>			
11 kV	kVA	500	10.80
33 kV	kVA	500	10.00
132 kV and above	kVA	500	9.80
<b>HT VIII: RESCO</b>			
11 kV			4.52

### Terms and Conditions

1. Fuel Surcharge Adjustment (FSA) is applicable in accordance with the provisions of the Electricity Act, 2003.
2. The tariffs are exclusive of Electricity Duty payable as per the provisions of the AP Electricity Duty Act as adopted by the Government of Telangana State.
3. **Voltage surcharge:** The voltage surcharge withdrawal stands continued even for FY 2018-19.
4. **Additional charges for maximum demand exceeding the contracted demand**  
In case, in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his Contracted Demand with the Licensee, the consumer shall pay the following charges on excess demand recorded and on the entire energy consumed.

RMD over CMD	Demand charges on excess demand	Energy charges on full energy
100 to 120%	2 times of normal charge	Normal
Above 120% and up to 200%	2 times of normal charge	1.15 times of normal charge
More than 200%	2 times of normal charge	1.20 times of normal charge

In case of HT V(A) and HT V(B): Railway Traction and HMR, the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, if RMD exceeds 120% of Contracted Demand.

#### 5. Minimum charges

Category		Rates for FY 2018-19	
LT categories		Rates for FY 2018-19	
LT I(A)	Domestic	<b>Contracted Load of 1000 Watts and below</b>	
		Single Phase	Rs. 25/month
LT I(B)(i)		<b>Contracted Load of above 1000 Watts</b>	
LT I(B)(ii)		Single Phase	Rs. 50/month
		Three Phase	Rs. 150/month
LT II(A) & II(B)	Non-Domestic / Commercial	Single Phase	Rs. 65/month
		Three Phase	Rs. 200/month
LT II(C)		Advertisement Hoardings	Rs. 300/month
LT II(D)		Single Phase	Rs. 65/month
		Three Phase	Rs. 200/month
LT VI(A)	Street Lighting	Panchayats	Rs. 2/point/month
		Municipalities and Corporations	Municipal Rs. 6/point/month
LT VII(A)	General Purpose	Single Phase	Rs. 50/month
		Three Phase	Rs. 150/month
LT VIII	Temporary Supply	Rs. 125 per kW or part thereof of the contracted load for first 30 days or part thereof and for every subsequent period of 15 days or part thereof a charge of Rs. 75 per kW.	
HT Categories		Rates for FY 2018-19	
Billing Demand		Billing Demand shall be maximum demand recorded during the month or 80% of the contracted demand whichever is higher except HT IV(A) and HT VI	
		For HT IV(A) (Lift Irrigation), during the operational months July to November, Billing Demand shall be maximum demand recorded during the month or 80% of the contracted demand whichever is higher and, during the non-operational months December to June, Billing Demand shall be maximum demand recorded during the month or 20% of the contracted demand whichever is higher.	
		For HT VI (Township and Residential Colonies), the billing demand is Actual Demand Recorded)	
Minimum Energy Charges		Rates for FY 2018-19	
HT I(A)	Industry-General	50 kVAh per kVA of billing demand per month	
HT I(B)	Ferro Alloy units	Maximum Demand or Average Actual Demand whichever is higher. The energy falling short of 6,701 kVAh per kVA per annum will be billed as deemed consumption. This shall be calculated on an annual basis and not on a monthly basis and disconnection periods shall be exempted while computing the minimum off-take	
HT II	Others	25 kVAh per kVA of billing demand per month	
HT III	Airports, Bus Stations and Railway Stations	50 kVAh per kVA of billing demand per month	
HT V(A) & V(B)	Railway Traction & HMR	32 kVAh per kVA of Contracted Demand per month	

HT VI	Townships & Residential Colonies	Billing Demand shall be Actual Recorded Demand. 25 kVAh per kVA of contracted demand per month.
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## 6. Customer charges

Consumer Category	Rs./month
<b>Low Tension</b>	
<b>LT I: Domestic (Units/month)</b>	
0-50	Rs. 25
51-100	Rs. 30
101-200	Rs. 50
201-300	Rs. 60
301-400	Rs. 80
401-800	Rs. 80
Above 800 units	Rs. 80
<b>LT II (A&amp;B): Non-Domestic/ Commercial (Units/month)</b>	
0-50	Rs. 45
51-100	Rs. 55
101-300	Rs. 65
301-500	Rs. 65
Above 500 units	Rs. 65
LT II(C): Advertisement Hoardings	Rs. 70
<b>LT II(D): Haircutting Salons with consumption upto 200 units per month</b>	
0-50	Rs. 45
51-100	Rs. 55
101-200	Rs. 65
LT III: Industry up to 20 HP	Rs. 75
LT III: Industry 21-50 HP	Rs. 300
LT III: Industry 51-100 HP	Rs. 1125
LT IV: Cottage Industries	Rs. 45
LT V: Agriculture	Rs. 30
LT VI: Street Lighting & PWS	Rs. 50
LT VII: General Purpose	Rs. 60
LT VIII: Temporary Supply	Rs. 65
<b>High Tension</b>	
HT consumers at 11 kV	Rs. 1685
HT consumers at 33 kV	Rs. 1685
HT consumers at 132 kV and above	Rs. 3370

## 7. Delayed Payment Surcharge (DPS)

### LT Category

- a) In case of LT I(A), LT I(B), LT II(A), LT II(D), LT IV and LT V(B), if payment is made after due date, the consumers are liable to pay, Delayed Payment Surcharge (DPS) per month on the bill amount at the rates given in table below:

LT I(A)	Rs. 10 per month
LT I(B), LT II(A), LT II(D), LT IV and LT V(B)	Rs. 25 per month

- b) In case of LT II(B), LT II(C), LT III, LT VI, and LT VII, the Licensee shall levy Delayed Payment Surcharge (DPS) on the bill amount at the rate of 5 paise/ Rs. 100/ day calculated from the due date mentioned on the bill, up to the date of payment or Rs. 150 whichever is higher. In case of grant of installments, the Licensees shall levy interest at the rate of 18% per annum on the

outstanding amounts compounded annually and the two (DPS and interest) shall not be levied at the same time.

### HT Category

- a) The Licensees shall charge the Delayed Payment Surcharge (DPS) per month on the bill amount at the rate of 5 paise/ Rs. 100/ day or Rs. 550 whichever is higher. In case of grant of installments, the Licensee shall levy interest at the rate of 18% per annum on the outstanding amounts, compounded annually and the two charges shall not be levied at the same time.

### 8. Reconnection charges

<b>Low Tension services</b>	
LT I(A)	Rs. 25
Overhead LT services	Rs. 75
U.G. services	Rs. 200
<b>High Tension service</b>	
11 kV	Rs. 1000
33 kV	Rs. 2000
132 kV and above	Rs. 3000

### 9. Testing charges

<b>Installation</b>	<b>LT</b>	<b>HT</b>
The first test and inspection of a new installation or of an extension to an existing installation	Nil	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs. 20	Rs. 200
<b>Meter</b>		
A.C. Single Phase Energy meter	Rs. 100	
A.C. Three Phase Energy meter	Rs. 300	
LT Tri Vector meter	Rs. 2000	
11 kV		Rs. 3000
33 kV		Rs. 3000
132 kV and above		Rs. 3000
<b>Transformer oil</b>		
Each sample of oil	Rs. 150 per sample	

### 10. Supervision / Inspection and checking charges

For LT I(A) Domestic	Rs. 100
For LT I(B) Domestic	Rs. 100
LT Agricultural	Rs. 100
For all other LT Categories	Rs. 100
For all HT Categories	Rs. 600

11. **Low power factor charges:** For all consumer categories where kVAh billing is done, no Low Power Factor surcharge shall be levied.

12. **Capacitor surcharge:** LT consumers (except LT I Domestic) having connected loads mentioned in table below shall pay capacitor surcharge (as per rules in vogue) at the rate of 25% of the billed amount, if capacitors are found defunct.

<b>Category</b>	<b>Connected Load</b>
LT II and LT VII(A)	< 10 kW

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LT III and LT VI(B)	< 20 HP
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13. **Fixed Charges – Seasonal Industries:**

LT III: Rs. 50/ HP/ month on 30% contracted load.

HT: Demand Charges – 30% of CMD or recorded demand whichever is higher.

14. **Temporary Supply for LT and HT consumers:** Temporary supply can be given initially for a period up to one year as per the tariff applicable under temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.

## ANNEXURE 2: LIST OF STAKEHOLDERS WHO SUBMITTED THE WRITTEN OBJECTIONS/ SUGGESTIONS/ COMMENTS

S. No.	Name and Address of the Objector	Objections related to
1.	Swamy Jaganmayananda.Husnabad Village, Kondangal Mandal, Vikarabad District, Telanagana State	TSSPDCL
2.	GMR Vemagiri Power Generation Limited	TSSPDCL
3.	Hyderabad Rajiv Gandhi International Airport , GMR Hyderabad International Airport Limited.	TSSPDCL
4.	T. Balraj, Amdapur, Moinabad Mdl. R R District	TSSPDCL
5.	K.Vittal Reddy,Amdapur,Moinabad Mdl,R.R District	TSSPDCL
6.	Y.Balwanth Reddy & Others,Amdapur,Moinabad,Mdl,R.R District.	TSSPDCL
7.	B.Ramulu & G.Srinivas Reddy ,Amdapur,Moinabad,Mdl,R.R.District	TSSPDCL
8.	M.Raji Reddy & Others,#20-160/1/1,R.B Nagar,Shamshabad,Ranga Reddy - 501218	TSSPDCL
9.	D. Ramu, G2 2-1-174.175, Nallakunta, Hyderabad-44	TSSPDCL
10.	D. Ramu H No. 2-1-174.175 Nalakunta Hyderabad	TSSPDCL
11.	Hanumantha Rao (Dora), Shameerpet (M), Dist. Medchal	TSSPDCL
12.	Sri Linganna Manik Reddy, Naragudem (V), Navabpet Mdl. Dist. Vikarabad	TSSPDCL
13.	Venkaba, H. No. 3-16/27, Subhash Road, Narayanpet V, Dist. Mahboobnagar	TSSPDCL
14.	B. Malla Reddy, R/o Tuniki Bollaram V , Mdl. Mulugu, Dist. Siddipet	TSSPDCL
15.	Kancherla Soma Reddy R/o Veerlagadda Thanda, Nalgonda	TSSPDCL
16.	Srikanth Reddy, Doulapur V, Papannapet Mdl., Dist. Medak	TSSPDCL
17.	K. Krishna Reddy R/o Jedcherla, Dist. Mahboobnagar	TSSPDCL
18.	Beemini Venkataiah R/o Mdl. Bijinepalli, Dist. Nagar Kurnool	TSSPDCL
19.	Gurujala Srinivas Reddy R/o Jakkapur, Siddipet Mdl. & Dist	TSSPDCL
20.	Asa Anjaneyulu, R/o Mallayapalli, Mdl. Dubbaka, Dist. Siddipet	TSSPDCL
21.	Sri Malla Reddy Baratiya Kisan Sangh, Kothagadi (V), Vikarabad	TSSPDCL
22.	P.Venkat Reddy, H. No. 1-10-1/2139/95, Srichakrapuram, Kapra Kushaiguda, Hyderabad	TSSPDCL
23.	Laxmikantha, H. No. 3-16-27, Subhash Road, Narayanpet, Dist. Mahboobnagar	TSSPDCL
24.	Sitapuram Power Limited, 8-2-293/82/A/431/A,Road No.22,Jubilee Hills,Hyderabad - 500 033	TSSPDCL
25.	Arundhathi ,Amdapur Village,Kasimbowli Mandal,Moinabad,R.R.District.	TSSPDCL
26.	Y.Narsimha Reddy ,Village Amdapur,Moinabad R.R.District.	TSSPDCL
27.	Buchhi Reddy,Amdapur Village,Moinabad,R.R.District.	TSSPDCL
28.	Penta Reddy ,Village Kashibowli,GP Amdapur Mandal,Moinabad,R.R District.	TSSPDCL
29.	G.Karunkar Redy , (V) Amdapur,Kashibowli,Moinabad.R.R.District.	TSSPDCL
30.	Shanker Reddy, Amdapur,Kashibowli,Moinabad.R.R.District.	TSSPDCL
31.	M.Penta Reddy , village Kashibowli, G.P.Amdapur (M) Moinabad, R.R.Dist	TSSPDCL
32.	G.Satyanarayana Reddy, (V) Amdapur, Kashibowli (M) Moinabad, R.R.Dist	TSSPDCL
33.	G.Saireddy, Amdampur, Kashibowli (M), Moinabad, R.R.Dist	TSSPDCL

S. No.	Name and Address of the Objector	Objections related to
34.	Indian National Congress Party Karimnagar Dist,Indira Bhavan,Padmanagar,Karimnagar-505001	TSNPDCL
35.	GMR Vemagiri Power Generation Limited.	TSNPDCL
36.	Sri. N. Narayana Reddy R/o Narayanapur, Yellareddipet, Siricilla District	TSNPDCL
37.	Bumareddy , Adlilabad- 504312	TSNPDCL
38.	K.Sai Reddy, H,No.11-1-1815, Maruti Nagar Nizamabad -503002	TSNPDCL
39.	Ippa Rajendhar, Dharmaram V, Mdl. Mallapur, Dist. Jagityal	TSNPDCL
40.	Kuchanpalli Narayana Reddy, Surpanch, Chinna Thadem V, Mdl. Mopal, Dist. Nizamabad	TSNPDCL
41.	Podduturi Vittal Redy R/o Vadthal, Mdl. Mudhole, Dist. Nirmal	TSNPDCL
42.	Challa Surender R/o Dharmapuri Mdl., Dist. Jagityal	TSNPDCL
43.	Nava Bharat Ventures Limited,Nava Bharat Chambers,Raj Bhavan Road, Hyderabad - 500 082.	TSNPDCL
44.	Bharatiya Kisan Sangh,Chityal,Jaishankar (Bhoopalpalli) Dist	TSNPDCL
45.	D.C.Sailu,Bharatiya Kisan Sangh,H.No.5-5-74,Vivekananda Colony,Kamareddy- 503 111	TSNPDCL
46.	E.Lakshma Reddy,Bharatiya Kisan Sangh,sadasivanagar,Kamareddy- 503 111	TSNPDCL
47.	K.Sai Reddy,Bharatiya Kisan Sangh,Kamareddy Mandal,Kamareddy- 503 111	TSNPDCL
48.	Hanumantha Rao,MPTC,Peddachekkarla,Madnoor Mandal ,Kamareddy- 503 111	TSNPDCL
49.	K.Anjanna,Bharatiya Kisan Sangh,Lingapur,Kamareddy-503 111	TSNPDCL
50.	K.Venkat Reddy,Bharatiya Kisan Sangh,Indalvayee Mandal,Nizamabad	TSNPDCL
51.	C.Raghava Reddy ,Bharatiya Kisan Sangh,Kamareddy	TSNPDCL
52.	A.R.Narsa Reddy ,Bharatiya Kisan Sangh,Kamareddy	TSNPDCL
53.	A.J. Reddy ,Bharatiya Kisan Sangh,Kamareddy	TSNPDCL
54.	N.Rupender Reddy,Kamareddy	TSNPDCL
55.	P.Rajeshwar Rao,Sadasivnagar	TSNPDCL
56.	N.Dasarath Reddy,Kamareddy	TSNPDCL
57.	E.Raji Reddy,Bharatiya Kisan Sangh,Kamareddy	TSNPDCL
58.	P.Vittal Reddy,Bharatiya kisan Sangh,Kamareddy	TSNPDCL
59.	Rajesham,Bharatiya kisan Sangh,Kamareddy	TSNPDCL
60.	B.Amarasena Reddy ,Bharatiya kisan Sangh,Kamareddy	TSNPDCL
61.	E.Ganapati Reddy,Bharatiya kisan Sangh,Kamareddy	TSNPDCL
62.	M. Venugopala Rao Senior Journalist & Convener, Centre for Power Studies H.No.7-1-408 to 413. F 203 Sri Sai Darsan Residency Balkampet Road, Ameerpet Hyd-500016.	TSSPDCL & TSNPDCL
63.	P.Chandrakant Sharma,1-1-259/A/101,PGR Lake View Tower & NIT-KUC,Hanamkonda-506370	TSSPDCL & TSNPDCL
64.	M.Thimma Reddy, Convenor, People's Monitoring group on Electricity Regulation, 139, Kakatiya Nagar, Hyderabad - 500008	TSSPDCL & TSNPDCL
65.	Sr.Chief Engineer,BSNL,Hyderabad	TSSPDCL & TSNPDCL
66.	M.Sreedhar Reddy H.No.2-1-174 & 175, Flat No.504 Nallkunta Hyderabad- 44	TSSPDCL & TSNPDCL
67.	P.Anjji Reddy H.No 2-1-174 & 175, Flat No. 4-2, Nallakunta - 44	TSSPDCL & TSNPDCL
68.	J Sri Ranga Rao, H.No.2-2-18/18/7, Flat No. 503 C-29, D.D Colony Hyderabad - 500013	TSSPDCL & TSNPDCL

<b>S. No.</b>	<b>Name and Address of the Objector</b>	<b>Objections related to</b>
69.	The Engineer- in-chief (Irrigation) I& CAD Department, 2nd Floor, Jalasouda, Errum Manzil. Hyderabad- 500082	TSSPDCL & TSNDPCL
70.	Telangana Solar Open Access Developers Association,H.No.8-3-224/4/A,Pt.No.11 & 12,Survey No.1,Room No.412,Madhuranagar,Yousufguda,Hyderabad - 500 038	TSSPDCL & TSNDPCL
71.	Arhyama Solar Power Private Limited,Margi building, Romm No.201 & 202,Yousufguda,Madhuranagar,Hyderabad- 500 038	TSSPDCL & TSNDPCL
72.	S.Anvesh Reddy, Kisaan Keth Mazdoor Congress,602 C , Kalki Gardens,Madinaguda,Miyupur,Hyderabad-500 050	TSSPDCL & TSNDPCL
73.	Solnova Power Pvt Ltd,Vaishnavi Tanmayi Plaza,4th Floor , Gachibowli X roads,Hyderabad - 500 032	TSSPDCL & TSNDPCL
74.	Value Labs,Plot No.41,Hitrech City,Phase II,Madhapur,Hyderabad-500 081	TSSPDCL & TSNDPCL
75.	FTAPCCI,Hyderabad	TSSPDCL & TSNDPCL
76.	Bhagyanagar India Limited,5th Floor,Surya Towers,S.P.Road,Secunderabad - 500 003	TSSPDCL & TSNDPCL
77.	Surana Solar Systems Pvt Ltd,5th Floor,Surya Towers,S.P.Road,Secunderabad - 500 003	TSSPDCL & TSNDPCL
78.	Indian Solar Power Producers Association,5th Floor,Surya Towers,S.P.Road,Secunderabad - 500 003	TSSPDCL & TSNDPCL
79.	Hindustan Petroleum Corporation Ltd,Parishram Bhavan,5-9-58/B,Basheerbagh,Hyderabad-500004	TSSPDCL & TSNDPCL
80.	D.Ravi,Bharatiya Kisan Sangh,Hyderabad	TSSPDCL & TSNDPCL
81.	Indian Energy Exchange,Unit No.3,4,5 & 6,Plot No.7,4th Floor,TDI Centre,New Delhi-770025	TSSPDCL & TSNDPCL
82.	M.Sreedhar Reddy,Rajput Residency,Nallakunta,Hyderabad	TSSPDCL & TSNDPCL

**ANNEXURE 3: TSSPDCL – CATEGORY WISE AND MONTH WISE SALES FOR FY 2018-19 – APPROVED**

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>LT Category</b>		<b>1562.85</b>	<b>1615.10</b>	<b>1275.10</b>	<b>1467.82</b>	<b>1704.30</b>	<b>1636.20</b>	<b>1730.96</b>	<b>1459.04</b>	<b>1662.32</b>	<b>1721.78</b>	<b>2250.78</b>	<b>2693.35</b>	<b>20779.61</b>
Category I (A&B)	Domestic	852.59	904.55	677.36	668.25	691.38	664.16	654.32	576.06	594.78	572.35	625.75	812.37	<b>8293.93</b>
Category II (A, B & C)	Non-Domestic/Commercial	244.88	254.62	210.61	208.89	212.41	202.88	206.23	188.61	193.47	185.58	202.56	246.39	<b>2557.13</b>
Category III (A&B)	Industrial	74.50	77.16	68.08	70.34	69.19	65.76	70.69	71.99	80.55	72.79	72.43	78.91	<b>872.39</b>
Category IV (A&B)	Cottage Industries & Dhobighats	0.79	0.82	0.75	0.78	0.71	0.71	0.75	0.77	0.83	0.75	0.73	0.83	<b>9.24</b>
Category V (A&B)	Irrigation & Agriculture	324.77	314.81	255.31	455.93	668.34	644.81	733.01	556.13	725.52	824.21	1282.11	1487.39	<b>8272.34</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	58.67	56.94	56.77	56.99	55.23	51.97	59.75	59.37	61.05	60.31	60.60	59.71	<b>697.36</b>
Category VII (A&B)	General Purpose	6.45	5.98	6.06	6.45	6.83	5.72	6.05	5.91	5.96	5.62	6.44	7.57	<b>75.04</b>
Category VIII (A&B)	Temporary Supply	0.20	0.21	0.16	0.19	0.20	0.18	0.16	0.18	0.17	0.19	0.15	0.18	<b>2.17</b>
<b>HT Category at 11 kV</b>		<b>452.42</b>	<b>435.90</b>	<b>453.74</b>	<b>407.38</b>	<b>424.16</b>	<b>441.52</b>	<b>389.29</b>	<b>425.88</b>	<b>404.35</b>	<b>417.24</b>	<b>439.07</b>	<b>420.68</b>	<b>5111.63</b>
HT-I	Industry Segregated	284.64	271.30	285.36	265.68	275.17	286.62	252.24	282.72	273.59	284.23	296.64	275.07	<b>3333.26</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	145.56	145.82	150.05	125.61	131.48	135.40	120.14	122.31	112.04	112.11	120.29	122.75	<b>1543.57</b>
HT-III	Airports, Railways and Bus Stations	0.47	0.46	0.48	0.41	0.42	0.43	0.40	0.40	0.36	0.38	0.39	0.43	<b>5.03</b>
HT-IV(A)	Lift Irrigation & Agriculture	3.87	0.59	0.37	0.83	1.51	2.47	2.83	5.32	4.26	5.52	6.45	6.52	<b>40.55</b>
HT-IV(B)	CP Water Supply Schemes	5.52	5.37	5.24	5.12	5.23	5.57	5.29	6.04	5.65	5.75	6.01	6.12	<b>66.91</b>
HT-VI	Townships and Residential Colonies	9.39	9.52	9.27	6.87	7.40	7.63	6.12	6.68	6.02	6.66	6.81	7.18	<b>89.54</b>
HT	Temporary Supply	2.98	2.84	2.97	2.85	2.95	3.39	2.27	2.40	2.42	2.59	2.49	2.62	<b>32.76</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>HT Category at 33 kV</b>		<b>365.17</b>	<b>365.11</b>	<b>375.09</b>	<b>323.65</b>	<b>362.90</b>	<b>403.76</b>	<b>301.97</b>	<b>339.56</b>	<b>302.74</b>	<b>297.08</b>	<b>312.94</b>	<b>324.27</b>	<b>4074.23</b>
HT-I	Industry Segregated	290.98	289.66	296.44	256.51	289.66	324.96	232.81	266.86	235.87	232.89	244.85	257.77	<b>3219.27</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	59.51	62.15	64.16	54.57	57.95	61.12	54.88	54.17	50.65	48.95	52.16	51.92	<b>672.20</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	2.04	0.44	1.85	1.52	3.90	6.28	3.77	7.83	5.27	4.18	4.74	3.23	<b>45.04</b>
HT-IV(B)	CP Water Supply Schemes	7.19	7.20	7.22	7.21	7.30	7.25	7.18	7.19	7.21	7.22	7.18	7.18	<b>86.54</b>
HT-VI	Townships and Residential Colonies	5.44	5.67	5.41	3.84	4.09	4.15	3.32	3.52	3.72	3.83	4.00	4.17	<b>51.18</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>HT Category at 132 kV</b>		<b>238.88</b>	<b>222.93</b>	<b>226.12</b>	<b>243.05</b>	<b>423.83</b>	<b>607.87</b>	<b>602.05</b>	<b>468.04</b>	<b>303.59</b>	<b>289.30</b>	<b>282.56</b>	<b>226.90</b>	<b>4135.12</b>
HT-I	Industry Segregated	161.61	156.60	166.48	141.70	160.10	172.88	147.49	165.06	146.60	150.11	147.12	156.74	<b>1872.48</b>
HT-I(B)	Ferro Alloys	7.82	9.08	11.86	11.37	11.40	10.96	16.51	14.42	12.04	11.30	11.54	10.03	<b>138.35</b>
HT-II	Others	7.46	7.69	7.55	6.83	6.92	7.08	7.50	7.15	7.22	7.22	6.92	6.93	<b>86.47</b>
HT-III	Airports, Railways and Bus Stations	4.72	4.88	5.38	4.79	4.86	5.23	4.61	4.44	3.83	3.94	3.88	4.00	<b>54.57</b>
HT-IV(A)	Lift Irrigation & Agriculture	35.49	23.03	12.01	55.89	217.47	388.12	404.40	255.86	112.75	94.23	90.34	27.86	<b>1717.45</b>
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-V(A)	Railway Traction	11.77	11.64	12.85	12.47	13.07	13.61	11.54	11.11	11.15	12.50	12.75	11.33	<b>145.80</b>
HT-V(B)	HMR	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	<b>120.00</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
HT-VI	Townships and Residential Colonies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>Total</b>		<b>2619.32</b>	<b>2639.04</b>	<b>2330.05</b>	<b>2441.90</b>	<b>2915.19</b>	<b>3089.36</b>	<b>3024.26</b>	<b>2692.52</b>	<b>2672.99</b>	<b>2725.41</b>	<b>3285.35</b>	<b>3665.20</b>	<b>34100.59</b>

**ANNEXURE 4: TSNPDCL – CATEGORY WISE AND MONTH WISE SALES FOR FY 2018-19 – APPROVED**

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>LT Category</b>		<b>567.35</b>	<b>462.91</b>	<b>430.84</b>	<b>632.70</b>	<b>943.14</b>	<b>1297.11</b>	<b>1582.77</b>	<b>568.13</b>	<b>606.46</b>	<b>727.57</b>	<b>1234.85</b>	<b>1389.75</b>	<b>10443.58</b>
Category I (A&B)	Domestic	287.84	298.10	255.56	285.23	290.06	292.45	364.00	246.65	218.23	196.98	209.36	235.21	<b>3179.67</b>
Category II (A, B & C)	Non-Domestic/Commercial	60.94	64.59	66.34	57.25	59.50	59.43	61.00	51.78	49.22	47.76	50.85	53.44	<b>682.10</b>
Category III (A&B)	Industrial	20.83	21.36	21.60	18.75	18.84	18.30	15.96	17.05	23.12	28.40	25.94	21.42	<b>251.58</b>
Category IV (A&B)	Cottage Industries & Dhobighats	0.60	0.64	0.60	0.57	0.60	0.60	1.51	0.55	0.54	0.57	0.61	0.55	<b>7.93</b>
Category V (A&B)	Irrigation & Agriculture	168.21	50.71	58.87	243.52	545.53	896.39	1114.64	225.56	288.39	426.90	919.77	1051.19	<b>5989.69</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	24.45	24.08	24.90	23.36	23.91	24.92	22.02	22.60	23.04	23.22	23.93	23.57	<b>283.99</b>
Category VII (A&B)	General Purpose	4.47	3.43	2.98	4.02	4.70	5.02	3.63	3.94	3.91	3.74	4.40	4.37	<b>48.61</b>
Category VIII (A&B)	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>HT Category at 11 kV</b>		<b>146.25</b>	<b>105.15</b>	<b>98.43</b>	<b>127.05</b>	<b>158.94</b>	<b>153.18</b>	<b>93.80</b>	<b>115.59</b>	<b>133.40</b>	<b>148.14</b>	<b>157.76</b>	<b>153.16</b>	<b>1590.86</b>
HT-I	Industry Segregated	40.06	40.21	40.43	43.36	46.61	44.75	31.40	44.64	49.56	51.88	55.56	45.35	<b>533.82</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	11.78	12.68	11.30	10.45	11.95	11.67	10.21	10.45	8.76	8.65	10.59	10.41	<b>128.90</b>
HT-III	Airports, Railways and Bus Stations	0.72	0.78	0.74	0.62	0.67	0.66	0.65	0.61	0.55	0.54	0.61	0.57	<b>7.73</b>
HT-IV(A)	Lift Irrigation & Agriculture	4.72	1.50	0.18	0.41	1.71	2.71	0.83	2.08	1.69	3.15	4.20	3.97	<b>27.15</b>
HT-IV(B)	CP Water Supply Schemes	4.74	4.70	4.68	4.60	4.73	4.64	4.67	4.75	4.65	4.65	4.73	4.72	<b>56.26</b>
HT-VI	Townships and Residential Colonies	1.20	1.22	1.20	1.01	1.07	1.05	0.97	0.94	0.83	0.85	0.93	0.92	<b>12.18</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	83.01	44.07	39.91	66.60	92.20	87.70	45.06	52.12	67.37	78.41	81.16	87.21	<b>824.81</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>HT Category at 33 kV</b>		<b>32.94</b>	<b>28.75</b>	<b>27.41</b>	<b>27.19</b>	<b>33.09</b>	<b>35.73</b>	<b>38.98</b>	<b>38.03</b>	<b>31.35</b>	<b>31.21</b>	<b>32.28</b>	<b>32.00</b>	<b>388.97</b>
HT-I	Industry Segregated	16.71	14.42	14.05	14.25	15.03	14.95	13.95	16.31	16.61	15.50	16.53	15.66	<b>183.98</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	1.63	1.56	1.47	1.57	1.72	1.90	1.08	1.31	1.27	1.56	1.72	1.74	<b>18.51</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	2.03	0.36	0.08	0.07	4.20	6.76	12.12	8.79	2.14	2.73	2.45	2.94	<b>44.67</b>
HT-IV(B)	CP Water Supply Schemes	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	<b>100.00</b>
HT-VI	Townships and Residential Colonies	4.24	4.07	3.47	2.96	3.80	3.79	3.50	3.29	2.99	3.09	3.25	3.33	<b>41.80</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>HT Category at 132 kV</b>		<b>114.90</b>	<b>98.15</b>	<b>101.21</b>	<b>298.05</b>	<b>573.66</b>	<b>601.43</b>	<b>609.60</b>	<b>368.18</b>	<b>96.49</b>	<b>104.73</b>	<b>121.30</b>	<b>109.09</b>	<b>3196.80</b>
HT-I	Industry Segregated	57.66	55.88	57.46	59.22	59.30	62.10	56.13	58.03	54.39	57.78	60.44	56.79	<b>695.18</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	0.11	0.21	0.41	0.39	0.36	0.29	0.61	0.14	0.09	0.15	0.18	0.08	<b>3.03</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	15.43	1.07	0.45	199.11	472.83	499.46	515.07	271.49	6.69	8.47	20.68	14.29	<b>2025.04</b>
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-V(A)	Railway Traction	32.30	31.76	32.75	29.93	32.21	30.21	28.85	29.85	27.97	31.00	32.17	29.45	<b>368.47</b>
HT-V(B)	HMR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-VI	Townships and Residential Colonies	9.39	9.23	10.14	9.40	8.96	9.37	8.93	8.67	7.34	7.33	7.84	8.48	<b>105.09</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>Total</b>		<b>861.43</b>	<b>694.96</b>	<b>657.89</b>	<b>1085.00</b>	<b>1708.83</b>	<b>2087.45</b>	<b>2325.16</b>	<b>1089.93</b>	<b>867.70</b>	<b>1011.66</b>	<b>1546.20</b>	<b>1684.00</b>	<b>15620.20</b>

**ANNEXURE 5: BOTH THE DISCOMS – CATEGORY WISE AND MONTH WISE SALES FOR FY 2018-19 – APPROVED**

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>LT Category</b>		<b>2130.20</b>	<b>2078.01</b>	<b>1705.94</b>	<b>2100.52</b>	<b>2647.44</b>	<b>2933.31</b>	<b>3313.73</b>	<b>2027.17</b>	<b>2268.78</b>	<b>2449.35</b>	<b>3485.62</b>	<b>4083.11</b>	<b>31223.19</b>
Category I (A&B)	Domestic	1140.43	1202.65	932.92	953.48	981.44	956.61	1018.33	822.72	813.01	769.33	835.10	1047.58	<b>11473.60</b>
Category II (A, B & C)	Non-Domestic/Commercial	305.82	319.21	276.96	266.14	271.91	262.31	267.23	240.39	242.69	233.34	253.41	299.83	<b>3239.23</b>
Category III (A&B)	Industrial	95.33	98.52	89.68	89.09	88.03	84.07	86.65	89.04	103.67	101.19	98.37	100.33	<b>1123.97</b>
Category IV (A&B)	Cottage Industries & Dhobighats	1.39	1.46	1.35	1.35	1.31	1.31	2.27	1.32	1.37	1.32	1.34	1.38	<b>17.18</b>
Category V (A, B & C)	Irrigation & Agriculture	492.99	365.52	314.18	699.45	1213.87	1541.20	1847.65	781.69	1013.92	1251.11	2201.88	2538.58	<b>14262.02</b>
Category VI (A&B)	Local Bodies, Street Lighting & PWS	83.11	81.02	81.66	80.35	79.14	76.89	81.77	81.97	84.09	83.53	84.53	83.28	<b>981.35</b>
Category VII (A&B)	General Purpose	10.93	9.41	9.03	10.47	11.54	10.74	9.68	9.85	9.87	9.35	10.84	11.94	<b>123.66</b>
Category VIII (A&B)	Temporary Supply	0.20	0.21	0.16	0.19	0.20	0.18	0.16	0.18	0.17	0.19	0.15	0.18	<b>2.17</b>
<b>HT Category at 11 kV</b>		<b>598.67</b>	<b>541.05</b>	<b>552.17</b>	<b>534.43</b>	<b>583.10</b>	<b>594.69</b>	<b>483.09</b>	<b>541.47</b>	<b>537.75</b>	<b>565.39</b>	<b>596.84</b>	<b>573.83</b>	<b>6702.48</b>
HT-I	Industry Segregated	324.71	311.51	325.79	309.04	321.78	331.37	283.64	327.36	323.15	336.11	352.19	320.42	<b>3867.08</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	157.34	158.50	161.35	136.07	143.43	147.07	130.35	132.76	120.80	120.77	130.88	133.16	<b>1672.47</b>
HT-III	Airports, Railways and Bus Stations	1.20	1.24	1.22	1.03	1.09	1.09	1.06	1.01	0.91	0.93	1.00	1.00	<b>12.76</b>
HT-IV(A)	Lift Irrigation & Agriculture	8.59	2.09	0.55	1.24	3.22	5.18	3.67	7.40	5.96	8.67	10.64	10.49	<b>67.70</b>
HT-IV(B)	CP Water Supply Schemes	10.26	10.07	9.92	9.73	9.96	10.22	9.96	10.79	10.29	10.40	10.73	10.84	<b>123.17</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
HT-VI	Townships and Residential Colonies	10.59	10.73	10.46	7.88	8.47	8.67	7.09	7.62	6.85	7.51	7.74	8.10	<b>101.72</b>
HT	Temporary Supply	2.98	2.84	2.97	2.85	2.95	3.39	2.27	2.40	2.42	2.59	2.49	2.62	<b>32.76</b>
HT	RESCOs	83.01	44.07	39.91	66.60	92.20	87.70	45.06	52.12	67.37	78.41	81.16	87.21	<b>824.81</b>
<b>HT Category at 33 kV</b>		<b>398.10</b>	<b>393.86</b>	<b>402.50</b>	<b>350.84</b>	<b>395.99</b>	<b>439.49</b>	<b>340.95</b>	<b>377.59</b>	<b>334.08</b>	<b>328.29</b>	<b>345.22</b>	<b>356.27</b>	<b>4463.20</b>
HT-I	Industry Segregated	307.69	304.08	310.49	270.76	304.69	339.91	246.77	283.17	252.48	248.39	261.38	273.43	<b>3403.25</b>
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-II	Others	61.14	63.71	65.64	56.14	59.67	63.02	55.96	55.48	51.92	50.51	53.88	53.65	<b>690.72</b>
HT-III	Airports, Railways and Bus Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-IV(A)	Lift Irrigation & Agriculture	4.07	0.80	1.93	1.59	8.10	13.04	15.89	16.61	7.42	6.91	7.19	6.17	<b>89.71</b>
HT-IV(B)	CP Water Supply Schemes	15.52	15.53	15.55	15.55	15.64	15.58	15.51	15.52	15.55	15.56	15.51	15.51	<b>186.54</b>
HT-VI	Townships and Residential Colonies	9.69	9.74	8.88	6.80	7.90	7.94	6.83	6.81	6.71	6.93	7.26	7.51	<b>92.98</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>HT Category at 132 kV</b>		<b>353.77</b>	<b>321.08</b>	<b>327.33</b>	<b>541.10</b>	<b>997.49</b>	<b>1209.31</b>	<b>1211.65</b>	<b>836.22</b>	<b>400.08</b>	<b>394.04</b>	<b>403.86</b>	<b>335.99</b>	<b>7331.93</b>
HT-I	Industry Segregated	219.27	212.47	223.94	200.91	219.40	234.99	203.63	223.09	200.98	207.89	207.56	213.53	<b>2567.66</b>
HT-I(B)	Ferro Alloys	7.82	9.08	11.86	11.37	11.40	10.96	16.51	14.42	12.04	11.30	11.54	10.03	<b>138.35</b>
HT-II	Others	7.57	7.90	7.96	7.23	7.28	7.37	8.11	7.29	7.31	7.38	7.10	7.01	<b>89.51</b>
HT-III	Airports, Railways and Bus Stations	4.72	4.88	5.38	4.79	4.86	5.23	4.61	4.44	3.83	3.94	3.88	4.00	<b>54.57</b>
HT-IV(A)	Lift Irrigation & Agriculture	50.93	24.10	12.46	255.00	690.29	887.58	919.47	527.35	119.44	102.70	111.02	42.16	<b>3742.49</b>

Consumer Category		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
HT-IV(B)	CP Water Supply Schemes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT-V(A)	Railway Traction	44.08	43.41	45.60	42.41	45.29	43.82	40.40	40.96	39.12	43.50	44.92	40.79	<b>514.27</b>
HT-V(B)	HMR	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	<b>120.00</b>
HT-VI	Townships and Residential Colonies	9.39	9.23	10.14	9.40	8.96	9.37	8.93	8.67	7.34	7.33	7.84	8.48	<b>105.09</b>
HT	Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
HT	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>Total</b>		<b>3480.75</b>	<b>3334.00</b>	<b>2987.95</b>	<b>3526.90</b>	<b>4624.02</b>	<b>5176.80</b>	<b>5349.42</b>	<b>3782.45</b>	<b>3540.69</b>	<b>3737.07</b>	<b>4831.55</b>	<b>5349.20</b>	<b>49720.79</b>

**ANNEXURE 6: STATION WISE AND MONTH WISE AVAILABILITY OF ENERGY – APPROVED**

Name of the Station	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>Thermal-TSGenco</b>													
KTPS A	290.34	298.60	219.55	262.25	276.36	248.35	275.49	268.92	275.08	285.43	305.73	354.40	<b>3360.51</b>
KTPS B													
KTPS C													
KTPS V	281.27	280.75	182.75	196.49	211.59	206.73	232.21	248.72	182.84	212.00	252.55	305.08	<b>2792.97</b>
KTPS VI	208.27	205.07	140.76	164.73	233.15	199.34	208.36	226.20	221.32	212.72	200.97	262.52	<b>2483.41</b>
RTS B	24.09	34.04	33.88	36.36	30.75	33.50	35.82	24.69	30.14	34.72	33.10	35.36	<b>386.44</b>
Kakatiya TPP Stage I	202.72	216.32	177.24	255.79	225.83	233.84	213.56	181.74	233.49	183.13	227.62	253.81	<b>2605.08</b>
Kakatiya TPP Stage II	347.92	359.52	347.92	359.52	359.52	347.92	359.52	347.92	359.52	359.52	324.73	359.52	<b>4233.05</b>
KTPS VII	0.00	0.00	0.00	0.00	0.00	0.00	479.36	463.90	479.36	479.36	432.97	479.36	<b>2814.30</b>
<b>Sub-total</b>	<b>1354.62</b>	<b>1394.31</b>	<b>1102.10</b>	<b>1275.12</b>	<b>1337.20</b>	<b>1269.68</b>	<b>1804.32</b>	<b>1762.09</b>	<b>1781.74</b>	<b>1766.88</b>	<b>1777.66</b>	<b>2050.05</b>	<b>18675.77</b>
<b>Hydel-Inter State</b>													
Machkund PH	22.50	23.06	20.86	29.29	31.63	23.93	23.29	22.06	23.84	24.14	24.35	28.56	<b>297.51</b>
Tungabharda PH	1.34	0.53	0.00	3.89	13.27	14.00	14.32	13.48	7.25	8.92	4.24	4.56	<b>85.79</b>
Prijadarshini Jurala HEP	0.00	0.00	0.00	10.37	39.57	51.27	32.49	3.00	0.88	0.29	0.00	0.00	<b>137.86</b>
<b>Sub-total</b>	<b>23.84</b>	<b>23.59</b>	<b>20.86</b>	<b>43.55</b>	<b>84.47</b>	<b>89.20</b>	<b>70.10</b>	<b>38.53</b>	<b>31.97</b>	<b>33.35</b>	<b>28.59</b>	<b>33.12</b>	<b>521.17</b>
<b>Hydel-TSGenco</b>													
Nagarjunasagar HES	11.53	7.46	4.50	12.96	218.54	206.48	117.38	50.51	47.91	40.76	35.26	50.63	<b>803.91</b>
Nagarjunasagar Left Canal PH	0.00	0.00	0.00	0.00	7.04	10.43	13.16	10.72	6.80	1.88	0.00	0.00	<b>50.02</b>
Srisaillam Left Bank HES	63.97	0.00	0.00	9.47	289.68	365.03	279.23	59.26	72.65	55.53	68.68	93.54	<b>1357.04</b>
Lower Jurala HEP	0.00	0.00	0.00	6.59	15.02	42.03	47.43	1.13	0.32	0.05	0.14	0.06	<b>112.77</b>
Pulichintala	0.00	0.00	0.00	0.00	0.00	0.11	5.53	3.09	0.24	0.24	0.24	0.24	<b>9.71</b>

Name of the Station	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Pochampad PH	3.68	0.00	0.00	1.30	6.26	6.55	10.54	4.97	3.23	8.97	8.13	7.44	<b>61.06</b>
Nizamsagar HES	0.59	0.00	0.00	0.00	1.58	5.54	2.97	0.00	2.28	2.77	2.97	4.75	<b>23.46</b>
Singur HES	0.99	0.99	0.99	0.99	0.99	4.16	4.16	3.47	3.47	1.98	1.98	1.98	<b>26.14</b>
Paleru	0.02	0.02	0.00	1.98	2.02	2.38	2.72	2.62	1.50	2.18	2.23	2.72	<b>20.39</b>
Peddapalli MHS													
<b>Sub-total</b>	<b>80.78</b>	<b>8.47</b>	<b>5.49</b>	<b>33.29</b>	<b>541.14</b>	<b>642.71</b>	<b>483.12</b>	<b>135.77</b>	<b>138.40</b>	<b>114.35</b>	<b>119.62</b>	<b>161.37</b>	<b>2464.50</b>
<b>Total Hydel</b>	<b>104.63</b>	<b>32.06</b>	<b>26.35</b>	<b>76.84</b>	<b>625.60</b>	<b>731.91</b>	<b>553.21</b>	<b>174.30</b>	<b>170.37</b>	<b>147.70</b>	<b>148.21</b>	<b>194.49</b>	<b>2985.67</b>
<b>Total TSGenco</b>	<b>1459.24</b>	<b>1426.37</b>	<b>1128.45</b>	<b>1351.96</b>	<b>1962.80</b>	<b>2001.59</b>	<b>2357.54</b>	<b>1936.39</b>	<b>1952.11</b>	<b>1914.58</b>	<b>1925.88</b>	<b>2244.54</b>	<b>21661.43</b>
<b>Central Generating Stations</b>													
NTPC Ramagundam Stage I & II	211.41	209.01	172.43	184.63	206.95	190.35	206.59	204.87	208.84	215.53	204.47	232.00	<b>2447.09</b>
NTPC Ramagundam Stage III	56.46	53.97	46.13	52.66	52.67	52.87	49.26	38.52	55.53	55.92	52.92	60.36	<b>627.28</b>
NTPC Talcher TPS II	137.46	134.56	119.82	131.27	110.94	116.48	124.40	129.05	144.22	140.39	129.65	142.90	<b>1561.14</b>
NTPC Simhadri Stage I	300.42	303.93	252.68	261.27	282.57	258.03	306.69	267.71	262.84	292.66	290.48	344.84	<b>3424.13</b>
NTPC Simhadri Stage II	124.88	125.15	111.43	130.05	127.89	85.24	128.20	128.95	118.42	112.18	120.51	144.66	<b>1457.57</b>
NLC TPS II Stage I	36.67	35.02	31.77	30.79	36.30	30.21	27.91	26.03	24.51	35.94	33.56	38.86	<b>387.58</b>
NLC TPS II Stage II	65.96	60.83	48.70	54.02	51.79	55.50	57.46	49.16	52.99	60.55	59.02	68.32	<b>684.31</b>
NPC MAPS	9.86	11.58	12.27	13.88	14.14	11.38	13.98	12.98	11.46	12.49	13.15	12.78	<b>149.95</b>
NPC Kaiga Units 1 & 2	43.34	41.86	41.86	43.63	39.58	42.82	45.60	45.13	43.16	48.66	40.45	44.99	<b>521.09</b>
NPC Kaiga Units 3 & 4	45.97	44.40	44.41	46.28	41.99	45.42	48.37	47.87	45.78	51.62	42.91	47.72	<b>552.73</b>
NTECL Vallur TPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
NLC TamilNadu Power Ltd.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
NTPC Kudgi	155.73	160.92	155.73	160.92	160.92	155.73	160.92	155.73	160.92	160.92	145.35	160.92	<b>1894.71</b>

Name of the Station	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
NPC Kudankulam NPP Unit 2	27.39	28.30	27.39	28.30	28.30	27.39	28.30	27.39	28.30	28.30	25.56	28.30	<b>333.21</b>
Bundled Power (Coal) under JNNSM Phase 1	28.76	29.72	28.76	29.72	29.72	28.76	29.72	28.76	29.72	29.72	26.85	29.72	<b>349.96</b>
Bundled Power (Coal) under JNNSM Phase 2	115.06	118.89	115.06	118.89	118.89	115.06	118.89	115.06	118.89	118.89	107.39	118.89	<b>1399.85</b>
<b>Total CGS</b>	<b>1359.37</b>	<b>1358.14</b>	<b>1208.44</b>	<b>1286.32</b>	<b>1302.66</b>	<b>1215.23</b>	<b>1346.31</b>	<b>1277.20</b>	<b>1305.59</b>	<b>1363.79</b>	<b>1292.26</b>	<b>1475.27</b>	<b>15790.58</b>
<b>APGPCL</b>													
APGPCL I	1.15	1.18	1.15	1.18	1.15	1.15	1.18	1.15	1.18	1.15	1.11	1.18	<b>13.89</b>
APGPCL II	3.65	3.77	3.65	3.77	3.65	3.65	3.77	3.65	3.77	3.63	3.53	3.77	<b>44.28</b>
<b>Total APGPCL</b>	<b>4.80</b>	<b>4.96</b>	<b>4.80</b>	<b>4.96</b>	<b>4.80</b>	<b>4.80</b>	<b>4.95</b>	<b>4.80</b>	<b>4.96</b>	<b>4.78</b>	<b>4.64</b>	<b>4.96</b>	<b>58.17</b>
<b>Other Long Term Sources</b>													
TPCIL (Long Term 1)	164.90	170.40	164.90	170.40	170.40	164.90	170.40	164.90	170.40	170.40	153.91	170.40	<b>2006.32</b>
TPCIL (Long Term 2)	348.84	360.47	348.84	360.47	360.47	348.84	360.47	348.84	360.47	360.47	325.58	360.47	<b>4244.22</b>
SCCL TPP	692.17	715.24	692.17	715.24	715.24	692.17	715.24	692.17	715.24	715.24	646.03	715.24	<b>8421.43</b>
CSPDCL	579.87	599.20	579.87	599.20	599.20	579.87	599.20	579.87	599.20	599.20	541.21	599.20	<b>7055.09</b>
<b>Total</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1845.31</b>	<b>1666.73</b>	<b>1845.31</b>	<b>21727.06</b>
<b>NCE Sources</b>													
Biomass	10.64	14.81	10.80	12.19	7.31	11.56	10.73	11.31	13.15	18.62	18.43	12.40	<b>151.94</b>
Bagasse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	8.03	10.56	7.23	2.60	<b>28.50</b>
Municipal waste	10.38	10.73	10.38	10.73	10.73	10.38	15.49	14.99	15.49	15.49	14.00	15.49	<b>154.29</b>
Industrial waste	2.75	2.75	8.18	7.54	6.00	5.75	0.66	0.48	2.51	5.12	8.48	8.46	<b>58.69</b>
Wind	13.79	13.48	17.03	16.48	17.03	17.03	10.55	15.68	16.96	18.47	15.28	12.59	<b>184.35</b>
Mini Hydel	0.19	0.10	0.00	0.00	0.00	0.00	2.83	0.79	0.12	0.63	0.86	0.47	<b>5.98</b>
Solar	378.94	391.36	377.19	391.42	391.50	378.81	392.89	379.96	392.42	392.97	354.33	394.13	<b>4615.90</b>

<b>Name of the Station</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Total</b>
<b>Total NCE Sources</b>	<b>416.69</b>	<b>433.23</b>	<b>423.57</b>	<b>438.36</b>	<b>432.56</b>	<b>423.53</b>	<b>433.16</b>	<b>423.28</b>	<b>448.68</b>	<b>461.86</b>	<b>418.60</b>	<b>446.14</b>	<b>5199.65</b>
Short term sources	0.00	0.00	0.00	0.00	0.00	541.53	186.40	0.00	0.00	0.00	270.03	160.63	<b>1158.59</b>
<b>Grand Total</b>	<b>5025.89</b>	<b>5068.00</b>	<b>4551.04</b>	<b>4926.91</b>	<b>5548.13</b>	<b>5972.46</b>	<b>6173.66</b>	<b>5427.45</b>	<b>5556.66</b>	<b>5590.31</b>	<b>5578.14</b>	<b>6176.84</b>	<b>65595.48</b>

**ANNEXURE 7: MERIT ORDER DISPATCH OF ENERGY – APPROVED**

Name of the Station	Variable charge (Rs./kWh)	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
<b>Thermal-TSGenco</b>														
KTPS A	2.17	290.34	298.60	219.55	262.25	276.36	248.35	275.49	268.92	275.08	285.43	305.73	354.40	<b>3360.51</b>
KTPS B														
KTPS C														
KTPS V	2.02	281.27	280.75	182.75	196.49	211.59	206.73	232.21	248.72	182.84	212.00	252.55	305.08	<b>2792.97</b>
KTPS VI	2.57	208.27	205.07	140.76	164.73	233.15	199.34	208.36	226.20	221.32	212.72	200.97	262.52	<b>2483.41</b>
RTS B	2.48	24.09	34.04	33.88	36.36	30.75	33.50	35.82	24.69	30.14	34.72	33.10	35.36	<b>386.44</b>
Kakatiya TPP Stage I	2.55	202.72	216.32	177.24	255.79	225.83	233.84	213.56	181.74	233.49	183.13	227.62	253.81	<b>2605.08</b>
Kakatiya TPP Stage II	2.36	347.92	359.52	347.92	359.52	359.52	347.92	359.52	347.92	359.52	359.52	324.73	359.52	<b>4233.05</b>
KTPS VII	2.57	0.00	0.00	0.00	0.00	0.00	0.00	479.36	463.90	479.36	479.36	432.97	479.36	<b>2814.30</b>
<b>Sub-total</b>		<b>1354.62</b>	<b>1394.31</b>	<b>1102.10</b>	<b>1275.12</b>	<b>1337.20</b>	<b>1269.68</b>	<b>1804.32</b>	<b>1762.09</b>	<b>1781.74</b>	<b>1766.88</b>	<b>1777.66</b>	<b>2050.05</b>	<b>18675.77</b>
<b>Hydel-Inter State</b>														
Machkund PH	-	22.50	23.06	20.86	29.29	31.63	23.93	23.29	22.06	23.84	24.14	24.35	28.56	<b>297.51</b>
Tungabhadra PH	-	1.34	0.53	0.00	3.89	13.27	14.00	14.32	13.48	7.25	8.92	4.24	4.56	<b>85.79</b>
Prijadarshini Jurala HEP	-	0.00	0.00	0.00	10.37	39.57	51.27	32.49	3.00	0.88	0.29	0.00	0.00	<b>137.86</b>
<b>Sub-total</b>		<b>23.84</b>	<b>23.59</b>	<b>20.86</b>	<b>43.55</b>	<b>84.47</b>	<b>89.20</b>	<b>70.10</b>	<b>38.53</b>	<b>31.97</b>	<b>33.35</b>	<b>28.59</b>	<b>33.12</b>	<b>521.17</b>
<b>Hydel-TSGenco</b>														
Nagarjunasagar HES	-	11.53	7.46	4.50	12.96	218.54	206.48	117.38	50.51	47.91	40.76	35.26	50.63	<b>803.91</b>
Nagarjunasagar Left Canal PH	-	0.00	0.00	0.00	0.00	7.04	10.43	13.16	10.72	6.80	1.88	0.00	0.00	<b>50.02</b>
Srisaillam Left Bank HES	-	63.97	0.00	0.00	9.47	289.68	365.03	279.23	59.26	72.65	55.53	68.68	93.54	<b>1357.04</b>
Lower Jurala HEP	-	0.00	0.00	0.00	6.59	15.02	42.03	47.43	1.13	0.32	0.05	0.14	0.06	<b>112.77</b>

Name of the Station	Variable charge (Rs./kWh)	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Pulichintala	-	0.00	0.00	0.00	0.00	0.00	0.11	5.53	3.09	0.24	0.24	0.24	0.24	<b>9.71</b>
Pochampad PH	-	3.68	0.00	0.00	1.30	6.26	6.55	10.54	4.97	3.23	8.97	8.13	7.44	<b>61.06</b>
Nizamsagar HES	-	0.59	0.00	0.00	0.00	1.58	5.54	2.97	0.00	2.28	2.77	2.97	4.75	<b>23.46</b>
Singur HES	-	0.99	0.99	0.99	0.99	0.99	4.16	4.16	3.47	3.47	1.98	1.98	1.98	<b>26.14</b>
Paleru	-	0.02	0.02	0.00	1.98	2.02	2.38	2.72	2.62	1.50	2.18	2.23	2.72	<b>20.39</b>
Peddapalli MHS														
<b>Sub-total</b>		<b>80.78</b>	<b>8.47</b>	<b>5.49</b>	<b>33.29</b>	<b>541.14</b>	<b>642.71</b>	<b>483.12</b>	<b>135.77</b>	<b>138.40</b>	<b>114.35</b>	<b>119.62</b>	<b>161.37</b>	<b>2464.50</b>
<b>Total Hydel</b>		<b>104.63</b>	<b>32.06</b>	<b>26.35</b>	<b>76.84</b>	<b>625.60</b>	<b>731.91</b>	<b>553.21</b>	<b>174.30</b>	<b>170.37</b>	<b>147.70</b>	<b>148.21</b>	<b>194.49</b>	<b>2985.67</b>
<b>Total TSGenco</b>		<b>1459.24</b>	<b>1426.37</b>	<b>1128.45</b>	<b>1351.96</b>	<b>1962.80</b>	<b>2001.59</b>	<b>2357.54</b>	<b>1936.39</b>	<b>1952.11</b>	<b>1914.58</b>	<b>1925.88</b>	<b>2244.54</b>	<b>21661.43</b>
<b>Central Generating Stations</b>														
NTPC Ramagundam Stage I & II	2.29	211.41	209.01	172.43	184.63	206.95	190.35	206.59	204.87	208.84	215.53	204.47	232.00	<b>2447.09</b>
NTPC Ramagundam Stage III	2.30	56.46	53.97	46.13	52.66	52.67	52.87	49.26	38.52	55.53	55.92	52.92	60.36	<b>627.28</b>
NTPC Talcher TPS II	1.36	137.46	134.56	119.82	131.27	110.94	116.48	124.40	129.05	144.22	140.39	129.65	142.90	<b>1561.14</b>
NTPC Simhadri Stage I	2.29	300.42	303.93	252.68	261.27	282.57	258.03	306.69	267.71	262.84	292.66	290.48	344.84	<b>3424.13</b>
NTPC Simhadri Stage II	2.30	124.88	125.15	111.43	130.05	127.89	85.24	128.20	128.95	118.42	112.18	120.51	144.66	<b>1457.57</b>
NLC TPS II Stage I	2.73	36.67	35.02	31.77	30.79	36.30	30.21	27.91	26.03	24.51	35.94	33.56	38.86	<b>387.58</b>
NLC TPS II Stage II	2.73	65.96	60.83	48.70	54.02	51.79	55.50	57.46	49.16	52.99	60.55	59.02	68.32	<b>684.31</b>
NPC MAPS	2.18	10.06	11.83	12.52	14.17	14.44	11.62	14.27	13.25	11.70	12.76	13.43	13.05	<b>153.10</b>
NPC Kaiga Units 1 & 2	3.12	44.48	42.96	42.96	44.78	40.62	43.94	46.80	46.32	44.29	49.94	41.51	46.17	<b>534.78</b>
NPC Kaiga Units 3 & 4	3.12	47.18	45.57	45.57	47.50	43.09	46.61	49.64	49.13	46.98	52.97	44.04	48.97	<b>567.25</b>
NTECL Vallur TPS	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
NLC TamilNadu Power Ltd.	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

Name of the Station	Variable charge (Rs./kWh)	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
NTPC Kudgi	1.98	155.73	160.92	155.73	160.92	160.92	155.73	160.92	155.73	160.92	160.92	145.35	160.92	<b>1894.71</b>
NPC Kudankulam NPP Unit 2	4.10	28.18	29.12	28.18	29.12	29.12	28.18	29.12	28.18	29.12	29.12	26.30	29.12	<b>342.84</b>
Bundled Power (Coal) under JNNSM Phase 1	3.34	29.44	30.43	29.44	30.43	30.43	29.44	30.43	29.44	30.43	30.43	27.48	30.43	<b>358.24</b>
Bundled Power (Coal) under JNNSM Phase 2	3.34	117.78	121.70	117.78	121.70	121.70	117.78	121.70	117.78	121.70	121.70	109.92	121.70	<b>1432.95</b>
<b>Total CGS</b>		<b>1366.12</b>	<b>1364.98</b>	<b>1215.15</b>	<b>1293.31</b>	<b>1309.43</b>	<b>1221.98</b>	<b>1353.40</b>	<b>1284.11</b>	<b>1312.50</b>	<b>1371.01</b>	<b>1298.64</b>	<b>1482.30</b>	<b>15872.96</b>
<b>APGPCL</b>														
APGPCL I	1.49	1.15	1.18	1.15	1.18	1.15	1.15	1.18	1.15	1.18	1.15	1.11	1.18	<b>13.89</b>
APGPCL II	2.35	3.65	3.77	3.65	3.77	3.65	3.65	3.77	3.65	3.77	3.63	3.53	3.77	<b>44.28</b>
<b>Total APGPCL</b>		<b>4.80</b>	<b>4.96</b>	<b>4.80</b>	<b>4.96</b>	<b>4.80</b>	<b>4.80</b>	<b>4.95</b>	<b>4.80</b>	<b>4.96</b>	<b>4.78</b>	<b>4.64</b>	<b>4.96</b>	<b>58.17</b>
<b>Other Long Term Sources</b>														
TPCIL (Long Term 1)	1.74	164.90	170.40	164.90	170.40	170.40	164.90	170.40	164.90	170.40	170.40	153.91	170.40	<b>2006.32</b>
TPCIL (Long Term 2)	1.91	348.84	360.47	348.84	360.47	360.47	348.84	360.47	348.84	360.47	360.47	325.58	360.47	<b>4244.22</b>
SCCL TPP	1.77	692.17	715.24	692.17	715.24	715.24	692.17	715.24	692.17	715.24	715.24	646.03	715.24	<b>8421.43</b>
CSPDCL	1.20	579.87	599.20	579.87	599.20	599.20	579.87	599.20	579.87	599.20	599.20	541.21	599.20	<b>7055.09</b>
<b>Total</b>		<b>1785.79</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1785.79</b>	<b>1845.31</b>	<b>1845.31</b>	<b>1666.73</b>	<b>1845.31</b>	<b>21727.06</b>
<b>NCE Sources</b>														
Biomass	4.41	10.64	14.81	10.80	12.19	7.31	11.56	10.73	11.31	13.15	18.62	18.43	12.40	<b>151.94</b>
Bagasse	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	8.03	10.56	7.23	2.60	<b>28.50</b>
Municipal waste	-	10.38	10.73	10.38	10.73	10.73	10.38	15.49	14.99	15.49	15.49	14.00	15.49	<b>154.29</b>
Industrial waste	4.41	2.75	2.75	8.18	7.54	6.00	5.75	0.66	0.48	2.51	5.12	8.48	8.46	<b>58.69</b>
Wind	-	13.79	13.48	17.03	16.48	17.03	17.03	10.55	15.68	16.96	18.47	15.28	12.59	<b>184.35</b>

Name of the Station	Variable charge (Rs./kWh)	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Mini Hydel	-	0.19	0.10	0.00	0.00	0.00	0.00	2.83	0.79	0.12	0.63	0.86	0.47	<b>5.98</b>
Solar	-	378.94	391.36	377.19	391.42	391.50	378.81	392.89	379.96	392.42	392.97	354.33	394.13	<b>4615.90</b>
<b>Total NCE Sources</b>		<b>416.69</b>	<b>433.23</b>	<b>423.57</b>	<b>438.36</b>	<b>432.56</b>	<b>423.53</b>	<b>433.16</b>	<b>423.28</b>	<b>448.68</b>	<b>461.86</b>	<b>418.60</b>	<b>446.14</b>	<b>5199.65</b>
Short term purchases	3.86	0.00	0.00	0.00	0.00	0.00	541.53	186.40	0.00	0.00	0.00	270.03	160.63	<b>1158.59</b>
Sale of surplus power	3.10	-985.94	-1194.52	-1077.38	-835.04	-203.62	0.00	0.00	-1045.14	-1448.42	-1256.53	0.00	0.00	<b>-8046.59</b>
<b>Grand Total</b>		<b>4046.69</b>	<b>3880.32</b>	<b>3480.38</b>	<b>4098.85</b>	<b>5351.28</b>	<b>5979.21</b>	<b>6180.76</b>	<b>4389.21</b>	<b>4115.15</b>	<b>4341.02</b>	<b>5584.52</b>	<b>6183.88</b>	<b>57631.27</b>

## ANNEXURE 8: TSSPDCL – COST OF SERVICE

Consumer Category	Generation Cost						Transmission - Inter-State			Transmission - Intra-State			
	Demand			Energy			Demand			Demand			
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	
	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MU	Rs./kWh	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MW	Rs./kVA/Month	
<b>LT Categories</b>													
LT I (A&B)	Domestic	2837.52	2272.06	1040.73	2092.44	8293.93	2.52	109.38	2272.06	40.12	165.17	2272.06	60.58
LT II (A, B & C)	Non-Domestic/Commercial	871.63	700.51	1036.90	655.68	2557.13	2.56	33.72	700.51	40.12	50.92	700.51	60.58
LT III (A&B)	Industrial	237.17	186.84	1057.80	228.45	872.39	2.62	8.99	186.84	40.12	13.58	186.84	60.58
LT IV (A&B)	Cottage Industries & Dhobighats	2.59	2.02	1070.42	2.43	9.24	2.63	0.10	2.02	40.12	0.15	2.02	60.58
LT V (A&B)	Irrigation & Agriculture	709.00	3609.04	163.71	2043.45	8272.34	2.47	173.74	3609.04	40.12	262.37	3609.04	60.58
LT VI (A&B)	Local Bodies, Street Lighting & PWS	235.82	191.04	1028.67	182.39	697.36	2.62	9.20	191.04	40.12	13.89	191.04	60.58
LT VII (A&B)	General Purpose	27.24	22.10	1027.12	19.31	75.04	2.57	1.06	22.10	40.12	1.61	22.10	60.58
LT VIII (A&B)	Temporary Supply	0.87	0.69	1052.42	0.54	2.17	2.50	0.03	0.69	40.12	0.05	0.69	60.58
<b>HT Categories</b>													
HT I	Industry Segregated												
	11 kV	750.26	1634.19	382.58	805.99	3333.26	2.42	78.67	1634.19	40.12	118.80	1634.19	60.58
	33 kV	655.63	1170.64	466.72	733.95	3219.27	2.28	56.35	1170.64	40.12	85.10	1170.64	60.58
	132 kV	395.91	691.74	476.95	406.70	1872.48	2.17	33.30	691.74	40.12	50.29	691.74	60.58
HT I(B)	Ferro Alloys												
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	22.60	27.35	688.68	29.97	138.35	2.17	1.32	27.35	40.12	1.99	27.35	60.58
HT II	Others												
	11 kV	358.38	927.07	322.15	371.99	1543.57	2.41	44.63	927.07	40.12	67.39	927.07	60.58
	33 kV	200.52	304.86	548.13	153.98	672.20	2.29	14.68	304.86	40.12	22.16	304.86	60.58
	132 kV	19.63	49.05	333.55	18.73	86.47	2.17	2.36	49.05	40.12	3.57	49.05	60.58
HT III	Airports, Railways and Bus Stations												
	11 kV	1.65	1.86	738.77	1.20	5.03	2.39	0.09	1.86	40.12	0.14	1.86	60.58
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	11.56	11.35	848.70	11.82	54.57	2.17	0.55	11.35	40.12	0.83	11.35	60.58
HT IV(A&B)	Lift Irrigation & Agriculture												
	11 kV	16.41	60.28	226.81	25.87	107.47	2.41	2.90	60.28	40.12	4.38	60.28	60.58
	33 kV	19.50	73.81	220.12	30.00	131.58	2.28	3.55	73.81	40.12	5.37	73.81	60.58
	132 kV	213.82	1298.47	137.23	372.03	1717.45	2.17	62.51	1298.47	40.12	94.39	1298.47	60.58
HT V(A)	Railway Traction	20.34	139.30	121.70	31.58	145.80	2.17	6.71	139.30	40.12	10.13	139.30	60.58
HT V(B)	HMR	26.88	41.28	542.76	25.99	120.00	2.17	1.99	41.28	40.12	3.00	41.28	60.58
HT VI	Townships and Residential Colonies												
	11 kV	22.13	60.74	303.62	21.59	89.54	2.41	2.92	60.74	40.12	4.42	60.74	60.58
	33 kV	14.25	38.89	305.32	11.72	51.18	2.29	1.87	38.89	40.12	2.83	38.89	60.58
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT	Temporary Supply	7.62	7.72	822.75	7.89	32.76	2.41	0.37	7.72	40.12	0.56	7.72	60.58
HT	RESCOs	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
<b>Total</b>		<b>7678.93</b>	<b>13522.87</b>	<b>473.21</b>	<b>8285.70</b>	<b>34100.59</b>	<b>2.43</b>	<b>650.98</b>	<b>13522.87</b>	<b>40.12</b>	<b>983.07</b>	<b>13522.87</b>	<b>60.58</b>

Consumer Category	Distribution Demand			Retail Supply Energy			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS	
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Demand - G	Demand - T	Demand - D	Energy	Demand	Energy				
	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MU	Rs./kWh	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	MU	Rs./kWh	
<b>LT Categories</b>																
LT I (A&B)	Domestic	589.23	2272.06	216.11	52.59	8293.93	0.06	2837.52	274.55	589.23	2145.03	3701.29	2145.03	5846.31	8293.93	7.05
LT II (A, B & C)	Non-Domestic/Commercial	181.67	700.51	216.11	16.48	2557.13	0.06	871.63	84.65	181.67	672.16	1137.94	672.16	1810.10	2557.13	7.08
LT III (A&B)	Industrial	48.46	186.84	216.11	5.74	872.39	0.07	237.17	22.58	48.46	234.19	308.20	234.19	542.40	872.39	6.22
LT IV (A&B)	Cottage Industries & Dhobighats	0.52	2.02	216.11	0.06	9.24	0.07	2.59	0.24	0.52	2.49	3.36	2.49	5.85	9.24	6.33
LT V (A&B)	Irrigation & Agriculture	935.95	3609.04	216.11	51.35	8272.34	0.06	709.00	436.10	935.95	2094.80	2081.06	2094.80	4175.86	8272.34	5.05
LT VI (A&B)	Local Bodies, Street Lighting & PWS	49.54	191.04	216.11	4.58	697.36	0.07	235.82	23.08	49.54	186.98	308.44	186.98	495.42	697.36	7.10
LT VII (A&B)	General Purpose	5.73	22.10	216.11	0.49	75.04	0.06	27.24	2.67	5.73	19.80	35.64	19.80	55.44	75.04	7.39
LT VIII (A&B)	Temporary Supply	0.18	0.69	216.11	0.01	2.17	0.06	0.87	0.08	0.18	0.56	1.14	0.56	1.70	2.17	7.80
<b>HT Categories</b>																
HT I	Industry Segregated															
	11 kV	297.46	1634.19	151.68	20.26	3333.26	0.06	750.26	197.47	297.46	826.25	1245.18	826.25	2071.43	3333.26	6.21
	33 kV	39.50	1170.64	28.12	18.44	3219.27	0.06	655.63	141.46	39.50	752.40	836.59	752.40	1588.98	3219.27	4.94
	132 kV	0.00	691.74	0.00	10.22	1872.48	0.05	395.91	83.59	0.00	416.92	479.49	416.92	896.41	1872.48	4.79
HT I(B)	Ferro Alloys															
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	27.35	0.00	0.75	138.35	0.05	22.60	3.30	0.00	30.72	25.90	30.72	56.62	138.35	4.09
HT II	Others															
	11 kV	168.75	927.07	151.68	9.35	1543.57	0.06	358.38	112.02	168.75	381.33	639.15	381.33	1020.49	1543.57	6.61
	33 kV	10.29	304.86	28.12	3.87	672.20	0.06	200.52	36.84	10.29	157.85	247.65	157.85	405.50	672.20	6.03
	132 kV	0.00	49.05	0.00	0.47	86.47	0.05	19.63	5.93	0.00	19.20	25.56	19.20	44.76	86.47	5.18
HT III	Airports, Railways and Bus Stations															
	11 kV	0.34	1.86	151.68	0.03	5.03	0.06	1.65	0.22	0.34	1.23	2.21	1.23	3.44	5.03	6.84
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	11.35	0.00	0.30	54.57	0.05	11.56	1.37	0.00	12.12	12.93	12.12	25.05	54.57	4.59
HT IV(A&B)	Lift Irrigation & Agriculture															
	11 kV	10.97	60.28	151.68	0.65	107.47	0.06	16.41	7.28	10.97	26.52	34.66	26.52	61.18	107.47	5.69
	33 kV	2.49	73.81	28.12	0.75	131.58	0.06	19.50	8.92	2.49	30.75	30.90	30.75	61.66	131.58	4.69
	132 kV	0.00	1298.47	0.00	9.35	1717.45	0.05	213.82	156.90	0.00	381.38	370.73	381.38	752.10	1717.45	4.38
HT V(A)	Railway Traction	0.00	139.30	0.00	0.79	145.80	0.05	20.34	16.83	0.00	32.38	37.18	32.38	69.55	145.80	4.77
HT V(B)	HMR	0.00	41.28	0.00	0.65	120.00	0.05	26.88	4.99	0.00	26.65	31.87	26.65	58.52	120.00	4.88
HT VI	Townships and Residential Colonies															
	11 kV	11.06	60.74	151.68	0.54	89.54	0.06	22.13	7.34	11.06	22.14	40.53	22.14	62.66	89.54	7.00
	33 kV	1.31	38.89	28.12	0.29	51.18	0.06	14.25	4.70	1.31	12.02	20.26	12.02	32.28	51.18	6.31
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT	Temporary Supply	1.40	7.72	151.68	0.20	32.76	0.06	7.62	0.93	1.40	8.09	9.96	8.09	18.04	32.76	5.51
HT	RESCOs	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
<b>Total</b>		<b>2354.84</b>	<b>13522.87</b>	<b>145.11</b>	<b>208.23</b>	<b>34100.59</b>	<b>0.06</b>	<b>7678.93</b>	<b>1634.05</b>	<b>2354.84</b>	<b>8493.93</b>	<b>11667.82</b>	<b>8493.93</b>	<b>20161.75</b>	<b>34100.59</b>	<b>5.91</b>

## ANNEXURE 9: TSNPDCL – COST OF SERVICE

Consumer Category	Generation Cost						Transmission - Inter-State			Transmission - Intra-State			
	Demand			Energy			Demand			Demand			
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	
	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MU	Rs./kWh	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MW	Rs./kVA/Month	
<b>LT Categories</b>													
LT I (A&B)	Domestic	1180.68	720.29	1365.98	915.91	3179.67	2.88	39.21	720.29	45.37	66.31	720.29	76.71
LT II (A, B & C)	Non-Domestic/Commercial	286.11	174.67	1365.01	198.39	682.10	2.91	9.51	174.67	45.37	16.08	174.67	76.71
LT III (A&B)	Industrial	70.70	59.27	994.05	78.44	251.58	3.12	3.23	59.27	45.37	5.46	59.27	76.71
LT IV (A&B)	Cottage Industries & Dhobighats	2.24	2.08	900.05	2.42	7.93	3.05	0.11	2.08	45.37	0.19	2.08	76.71
LT V (A&B)	Irrigation & Agriculture	502.01	1906.91	219.38	1680.95	5989.69	2.81	103.81	1906.91	45.37	175.54	1906.91	76.71
LT VI (A&B)	Local Bodies, Street Lighting & PWS	119.86	72.72	1373.50	92.83	283.99	3.27	3.96	72.72	45.37	6.69	72.72	76.71
LT VII (A&B)	General Purpose	20.56	12.73	1346.55	15.50	48.61	3.19	0.69	12.73	45.37	1.17	12.73	76.71
LT VIII (A&B)	Temporary Supply	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
<b>HT Categories</b>													
HT I	Industry Segregated												
	11 kV	88.97	279.49	265.29	134.99	533.82	2.53	15.22	279.49	45.37	25.73	279.49	76.71
	33 kV	38.03	57.05	555.52	46.09	183.98	2.50	3.11	57.05	45.37	5.25	57.05	76.71
	132 kV	159.18	150.18	883.28	173.85	695.18	2.50	8.18	150.18	45.37	13.82	150.18	76.71
HT I(B)	Ferro Alloys												
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT II	Others												
	11 kV	20.34	65.67	258.11	32.60	128.90	2.53	3.58	65.67	45.37	6.05	65.67	76.71
	33 kV	4.91	9.70	421.97	4.64	18.51	2.50	0.53	9.70	45.37	0.89	9.70	76.71
	132 kV	0.75	14.86	42.19	0.76	3.03	2.50	0.81	14.86	45.37	1.37	14.86	76.71
HT III	Airports, Railways and Bus Stations												
	11 kV	3.73	2.15	1444.57	1.96	7.73	2.53	0.12	2.15	45.37	0.20	2.15	76.71
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT IV(A&B)	Lift Irrigation & Agriculture												
	11 kV	17.76	29.77	497.08	21.09	83.41	2.53	1.62	29.77	45.37	2.74	29.77	76.71
	33 kV	31.01	63.12	409.46	36.24	144.67	2.50	3.44	63.12	45.37	5.81	63.12	76.71
	132 kV	478.40	1088.34	366.31	506.41	2025.04	2.50	59.25	1088.34	45.37	100.19	1088.34	76.71
HT V(A)	Railway Traction	67.90	120.52	469.45	92.14	368.47	2.50	6.56	120.52	45.37	11.09	120.52	76.71
HT V(B)	HMR	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT VI	Townships and Residential Colonies												
	11 kV	3.48	3.99	726.85	3.08	12.18	2.53	0.22	3.99	45.37	0.37	3.99	76.71
	33 kV	7.25	8.73	692.68	10.47	41.80	2.50	0.48	8.73	45.37	0.80	8.73	76.71
	132 kV	21.37	21.46	829.65	26.28	105.09	2.50	1.17	21.46	45.37	1.98	21.46	76.71
HT	Temporary Supply	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT	RESCOs	99.94	127.84	651.46	208.57	824.81	2.53	6.96	127.84	45.37	11.77	127.84	76.71
	<b>Total</b>	<b>3225.18</b>	<b>4991.52</b>	<b>538.44</b>	<b>4283.60</b>	<b>15620.20</b>	<b>2.74</b>	<b>271.74</b>	<b>4991.52</b>	<b>45.37</b>	<b>459.49</b>	<b>4991.52</b>	<b>76.71</b>

Consumer Category		Distribution Demand			Retail Supply Energy			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS
		Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Demand - G	Demand - T	Demand - D	Energy	Demand	Energy			
														Rs. Crore	MW	Rs./kVA/Month
															Rs. Crore	MU
<b>LT Categories</b>																
LT I (A&B)	Domestic	320.43	720.29	370.72	15.37	3179.67	0.05	1180.68	105.52	320.43	931.28	1606.62	931.28	2537.90	3179.67	7.98
LT II (A, B & C)	Non-Domestic/Commercial	77.70	174.67	370.72	3.33	682.10	0.05	286.11	25.59	77.70	201.71	389.40	201.71	591.11	682.10	8.67
LT III (A&B)	Industrial	26.37	59.27	370.72	1.32	251.58	0.05	70.70	8.68	26.37	79.76	105.75	79.76	185.51	251.58	7.37
LT IV (A&B)	Cottage Industries & Dhobighats	0.92	2.08	370.72	0.04	7.93	0.05	2.24	0.30	0.92	2.46	3.47	2.46	5.93	7.93	7.48
LT V (A&B)	Irrigation & Agriculture	848.30	1906.91	370.72	28.21	5989.69	0.05	502.01	279.35	848.30	1709.16	1629.67	1709.16	3338.83	5989.69	5.57
LT VI (A&B)	Local Bodies, Street Lighting & PWS	32.35	72.72	370.72	1.56	283.99	0.05	119.86	10.65	32.35	94.39	162.87	94.39	257.26	283.99	9.06
LT VII (A&B)	General Purpose	5.66	12.73	370.72	0.26	48.61	0.05	20.56	1.86	5.66	15.76	28.09	15.76	43.85	48.61	9.02
LT VIII (A&B)	Temporary Supply	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
<b>HT Categories</b>																
HT I	Industry Segregated															
	11 kV	115.70	279.49	344.97	2.27	533.82	0.04	88.97	40.94	115.70	137.25	245.62	137.25	382.87	533.82	7.17
	33 kV	10.51	57.05	153.47	0.77	183.98	0.04	38.03	8.36	10.51	46.86	56.90	46.86	103.76	183.98	5.64
	132 kV	0.00	150.18	0.00	2.92	695.18	0.04	159.18	22.00	0.00	176.76	181.18	176.76	357.94	695.18	5.15
HT I(B)	Ferro Alloys															
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT II	Others															
	11 kV	27.18	65.67	344.97	0.55	128.90	0.04	20.34	9.62	27.18	33.14	57.15	33.14	90.29	128.90	7.00
	33 kV	1.79	9.70	153.47	0.08	18.51	0.04	4.91	1.42	1.79	4.72	8.12	4.72	12.83	18.51	6.93
	132 kV	0.00	14.86	0.00	0.01	3.03	0.04	0.75	2.18	0.00	0.77	2.93	0.77	3.70	3.03	12.20
HT III	Airports, Railways and Bus Stations															
	11 kV	0.89	2.15	344.97	0.03	7.73	0.04	3.73	0.32	0.89	1.99	4.93	1.99	6.92	7.73	8.95
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT IV(A&B)	Lift Irrigation & Agriculture															
	11 kV	12.33	29.77	344.97	0.35	83.41	0.04	17.76	4.36	12.33	21.45	34.45	21.45	55.89	83.41	6.70
	33 kV	11.62	63.12	153.47	0.61	144.67	0.04	31.01	9.25	11.62	36.85	51.88	36.85	88.73	144.67	6.13
	132 kV	0.00	1088.34	0.00	8.50	2025.04	0.04	478.40	159.44	0.00	514.91	637.84	514.91	1152.75	2025.04	5.69
HT V(A)	Railway Traction	0.00	120.52	0.00	1.55	368.47	0.04	67.90	17.66	0.00	93.69	85.55	93.69	179.24	368.47	4.86
HT V(B)	HMR	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT VI	Townships and Residential Colonies															
	11 kV	1.65	3.99	344.97	0.05	12.18	0.04	3.48	0.58	1.65	3.13	5.71	3.13	8.84	12.18	7.26
	33 kV	1.61	8.73	153.47	0.18	41.80	0.04	7.25	1.28	1.61	10.65	10.14	10.65	20.78	41.80	4.97
	132 kV	0.00	21.46	0.00	0.44	105.09	0.04	21.37	3.14	0.00	26.72	24.51	26.72	51.23	105.09	4.88
HT	Temporary Supply	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT	RESCOs	52.92	127.84	344.97	3.50	824.81	0.04	99.94	18.73	52.92	212.07	171.59	212.07	383.66	824.81	4.65
<b>Total</b>		<b>1547.93</b>	<b>4991.52</b>	<b>258.43</b>	<b>71.88</b>	<b>15620.20</b>	<b>0.05</b>	<b>3225.18</b>	<b>731.24</b>	<b>1547.93</b>	<b>4355.47</b>	<b>5504.35</b>	<b>4355.47</b>	<b>9859.82</b>	<b>15620.20</b>	<b>6.31</b>

## ANNEXURE 10: BOTH THE DISCOMS – COST OF SERVICE

Consumer Category		Generation Cost						Transmission - Inter-State			Transmission - Intra-State		
		Demand			Energy			Demand			Demand		
		Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS
		Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MU	Rs./kWh	Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MW	Rs./kVA/Month
<b>LT Categories</b>													
LT I (A&B)	Domestic	4018.19	2992.35	1119.02	3008.35	11473.60	2.62	148.59	2992.35	41.38	231.48	2992.35	64.46
LT II (A, B & C)	Non-Domestic/Commercial	1157.74	875.17	1102.39	854.06	3239.23	2.64	43.23	875.17	41.16	67.00	875.17	63.80
LT III (A&B)	Industrial	307.87	246.11	1042.45	306.89	1123.97	2.73	12.22	246.11	41.38	19.04	246.11	64.47
LT IV (A&B)	Cottage Industries & Dhobighats	4.83	4.09	984.00	4.85	17.18	2.82	0.21	4.09	42.78	0.34	4.09	68.76
LT V (A, B & C)	Irrigation & Agriculture	1211.01	5515.95	182.96	3724.40	14262.02	2.61	277.55	5515.95	41.93	437.91	5515.95	66.16
LT VI (A&B)	Local Bodies, Street Lighting & PWS	355.68	263.76	1123.75	275.23	981.35	2.80	13.16	263.76	41.56	20.58	263.76	65.03
LT VII (A&B)	General Purpose	47.80	34.82	1143.85	34.82	123.66	2.82	1.76	34.82	42.03	2.78	34.82	66.48
LT VIII (A&B)	Temporary Supply	0.87	0.69	1052.42	0.54	2.17	2.50	0.03	0.69	40.12	0.05	0.69	60.58
<b>HT Categories</b>													
HT I	Industry Segregated												
	11 kV	839.23	1913.68	365.45	940.98	3867.08	2.43	93.88	1913.68	40.88	144.53	1913.68	62.94
	33 kV	693.66	1227.69	470.85	780.04	3403.25	2.29	59.46	1227.69	40.36	90.35	1227.69	61.33
	132 kV	555.08	841.92	549.42	580.54	2567.66	2.26	41.48	841.92	41.05	64.11	841.92	63.46
HT I(B)	Ferro Alloys												
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	22.60	27.35	688.68	29.97	138.35	2.17	1.32	27.35	40.12	1.99	27.35	60.58
HT II	Others												
	11 kV	378.72	992.74	317.91	404.58	1672.47	2.42	48.20	992.74	40.46	73.44	992.74	61.65
	33 kV	205.43	314.56	544.24	158.62	690.72	2.30	15.20	314.56	40.28	23.05	314.56	61.08
	132 kV	20.38	63.91	265.80	19.49	89.51	2.18	3.17	63.91	41.34	4.93	63.91	64.33
HT III	Airports, Railways and Bus Stations												
	11 kV	5.38	4.01	1117.32	3.15	12.76	2.47	0.21	4.01	42.93	0.33	4.01	69.23
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	11.56	11.35	848.70	11.82	54.57	2.17	0.55	11.35	40.12	0.83	11.35	60.58
HT IV(A&B)	Lift Irrigation & Agriculture												
	11 kV	34.17	90.06	316.17	46.96	190.88	2.46	4.52	90.06	41.85	7.12	90.06	65.91
	33 kV	50.51	136.92	307.40	66.24	276.25	2.40	6.99	136.92	42.54	11.18	136.92	68.02
	132 kV	692.22	2386.81	241.68	878.44	3742.49	2.35	121.76	2386.81	42.51	194.58	2386.81	67.94
HT V(A)	Railway Traction	88.24	259.83	283.01	123.73	514.27	2.41	13.27	259.83	42.55	21.22	259.83	68.06
HT V(B)	HMR	26.88	41.28	542.76	25.99	120.00	2.17	1.99	41.28	40.12	3.00	41.28	60.58
HT VI	Townships and Residential Colonies												
	11 kV	25.61	64.73	329.68	24.67	101.72	2.43	3.14	64.73	40.44	4.78	64.73	61.57
	33 kV	21.50	47.61	376.31	22.19	92.98	2.39	2.35	47.61	41.08	3.63	47.61	63.54
	132 kV	21.37	21.46	829.65	26.28	105.09	2.50	1.17	21.46	45.37	1.98	21.46	76.71
HT	Temporary Supply	7.62	7.72	822.75	7.89	32.76	2.41	0.37	7.72	40.12	0.56	7.72	60.58
HT	RESCOs	99.94	127.84	651.46	208.57	824.81	2.53	6.96	127.84	45.37	11.77	127.84	76.71
<b>Total</b>		<b>10904.12</b>	<b>18514.39</b>	<b>490.79</b>	<b>12569.29</b>	<b>49720.79</b>	<b>2.53</b>	<b>922.72</b>	<b>18514.39</b>	<b>41.53</b>	<b>1442.56</b>	<b>18514.39</b>	<b>64.93</b>

Consumer Category		Distribution Demand			Retail Supply Energy			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS
		Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Demand - G	Demand - T	Demand - D	Energy	Demand	Energy			
		Rs. Crore	MW	Rs./kVA/Month	Rs. Crore	MU	Rs./kWh	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore	Rs. Crore			
<b>LT Categories</b>																
LT I (A&B)	Domestic	909.65	2992.35	253.33	67.95	11473.60	0.06	4018.19	380.07	909.65	3076.30	5307.91	3076.30	8384.21	11473.60	7.31
LT II (A, B & C)	Non-Domestic/Commercial	259.37	875.17	246.97	19.81	3239.23	0.06	1157.74	110.23	259.37	873.87	1527.34	873.87	2401.21	3239.23	7.41
LT III (A&B)	Industrial	74.82	246.11	253.35	7.06	1123.97	0.06	307.87	31.26	74.82	313.95	413.95	313.95	727.91	1123.97	6.48
LT IV (A&B)	Cottage Industries & Dhobighats	1.45	4.09	294.54	0.10	17.18	0.06	4.83	0.55	1.45	4.95	6.83	4.95	11.78	17.18	6.86
LT V (A, B & C)	Irrigation & Agriculture	1784.26	5515.95	269.56	79.56	14262.02	0.06	1211.01	715.46	1784.26	3803.96	3710.73	3803.96	7514.69	14262.02	5.27
LT VI (A&B)	Local Bodies, Street Lighting & PWS	81.89	263.76	258.74	6.14	981.35	0.06	355.68	33.74	81.89	281.37	471.31	281.37	752.68	981.35	7.67
LT VII (A&B)	General Purpose	11.39	34.82	272.61	0.75	123.66	0.06	47.80	4.53	11.39	35.56	63.73	35.56	99.29	123.66	8.03
LT VIII (A&B)	Temporary Supply	0.18	0.69	216.11	0.01	2.17	0.06	0.87	0.08	0.18	0.56	1.14	0.56	1.70	2.17	7.80
<b>HT Categories</b>																
HT I	Industry Segregated															
	11 kV	413.16	1913.68	179.91	22.52	3867.08	0.06	839.23	238.41	413.16	963.50	1490.80	963.50	2454.30	3867.08	6.35
	33 kV	50.00	1227.69	33.94	19.22	3403.25	0.06	693.66	149.81	50.00	799.25	893.48	799.25	1692.74	3403.25	4.97
	132 kV	0.00	841.92	0.00	13.14	2567.66	0.05	555.08	105.59	0.00	593.68	660.67	593.68	1254.35	2567.66	4.89
HT I(B)	Ferro Alloys															
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	27.35	0.00	0.75	138.35	0.05	22.60	3.30	0.00	30.72	25.90	30.72	56.62	138.35	4.09
HT II	Others															
	11 kV	195.93	992.74	164.47	9.90	1672.47	0.06	378.72	121.64	195.93	414.48	696.30	414.48	1110.77	1672.47	6.64
	33 kV	12.07	314.56	31.98	3.95	690.72	0.06	205.43	38.26	12.07	162.57	255.76	162.57	418.33	690.72	6.06
	132 kV	0.00	63.91	0.00	0.48	89.51	0.05	20.38	8.10	0.00	19.97	28.49	19.97	48.46	89.51	5.41
HT III	Airports, Railways and Bus Stations															
	11 kV	1.23	4.01	255.35	0.06	12.76	0.05	5.38	0.54	1.23	3.22	7.14	3.22	10.36	12.76	8.12
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	11.35	0.00	0.30	54.57	0.05	11.56	1.37	0.00	12.12	12.93	12.12	25.05	54.57	4.59
HT IV(A&B)	Lift Irrigation & Agriculture															
	11 kV	23.30	90.06	215.59	1.00	190.88	0.05	34.17	11.65	23.30	47.96	69.11	47.96	117.07	190.88	6.13
	33 kV	14.11	136.92	85.90	1.36	276.25	0.05	50.51	18.16	14.11	67.60	82.79	67.60	150.39	276.25	5.44
	132 kV	0.00	2386.81	0.00	17.85	3742.49	0.05	692.22	316.34	0.00	896.28	1008.56	896.28	1904.85	3742.49	5.09
HT V(A)	Railway Traction	0.00	259.83	0.00	2.34	514.27	0.05	88.24	34.49	0.00	126.07	122.73	126.07	248.80	514.27	4.84
HT V(B)	HMR	0.00	41.28	0.00	0.65	120.00	0.05	26.88	4.99	0.00	26.65	31.87	26.65	58.52	120.00	4.88
HT VI	Townships and Residential Colonies															
	11 kV	12.71	64.73	163.58	0.59	101.72	0.06	25.61	7.92	12.71	25.27	46.24	25.27	71.51	101.72	7.03
	33 kV	2.92	47.61	51.09	0.47	92.98	0.05	21.50	5.98	2.92	22.66	30.40	22.66	53.06	92.98	5.71
	132 kV	0.00	21.46	0.00	0.44	105.09	0.04	21.37	3.14	0.00	26.72	24.51	26.72	51.23	105.09	4.88
HT	Temporary Supply	1.40	7.72	151.68	0.20	32.76	0.06	7.62	0.93	1.40	8.09	9.96	8.09	18.04	32.76	5.51
HT	RESCOs	52.92	127.84	344.97	3.50	824.81	0.04	99.94	18.73	52.92	212.07	171.59	212.07	383.66	824.81	4.65
<b>Total</b>		<b>3902.77</b>	<b>18514.39</b>	<b>175.66</b>	<b>280.10</b>	<b>49720.79</b>	<b>0.06</b>	<b>10904.12</b>	<b>2365.29</b>	<b>3902.77</b>	<b>12849.40</b>	<b>17172.17</b>	<b>12849.40</b>	<b>30021.57</b>	<b>49720.79</b>	<b>6.04</b>



**BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY REGULATORY COMMISSION (TSERC)**  
D.No. 11-4-660, 5th Floor, Singareni Bhavan, Red Hills, HYDERABAD - 500 004.



**SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSSPDCL)**

**PUBLIC NOTICE**

- Notice is hereby given to all that the Distribution Company viz. Southern Power Distribution Company of Telangana Limited (TSSPDCL) holding Distribution and Retail Supply License No. 13/2000, has, on 15-12-2017, filed before the Telangana State Electricity Regulatory Commission (TSERC) the filings of aggregate Revenue Requirement (ARR) on 15.12.2017 and subsequently on 21.12.2017 filed the Tariff proposals for the Retail Supply business for the FY 2018-19 and cross subsidy surcharge & additional surcharge proposals for FY 2018-19. These filings have been taken on record by the Hon'ble Commission in O.P.No. 21 of 2017.
- Copies of the ARR filings and Tariff proposals including cross subsidy surcharge and additional surcharge referred above are available in the Office of the Chief General Manager (IPC & RAC), TSSPDCL, Corporate Office Ground Floor, Mint compound, Hyderabad-500063 and the Superintending Engineer, Operation circles of the distribution company at Banjara Hills, Hyderabad (south), Hyderabad (Central), Medchal, Cybercity, Habsiguda, Secunderabad, Rajendra Nagar, Saroornagar, Vikarabad, Mahabubnagar, Gadwal, Nagarkurnool, Wanaparthy, Medak, Siddipet, Sangareddy, Nalgonda, Yadadri and Suryapet. Interested persons may inspect/peruse the said filings of ARR and Tariff proposals including cross subsidy surcharge proposals and additional surcharge proposals and take note thereof during office hours at any of the said offices free of cost. These proposals are also available on [www.tsspdcl.com](http://www.tsspdcl.com) and the same may be accessed at [www.tserc.gov.in](http://www.tserc.gov.in). A copy of these filings can be obtained from the above offices from 30.12.2017 onwards on payment of Rs.200/- (by cash). Also a summary of ARR and Tariff proposals which includes cross subsidy surcharge and additional surcharge proposals in English or Telugu can be separately obtained on payment of Rs.10/- (by cash).
- Objections/suggestions if any, on the ARR filings and Tariff/Charges proposals including cross subsidy surcharge and additional surcharge proposals by the Distribution Company, together with supporting material may be sent to the Chief General Manager (IPC & RAC), TSSPDCL, Corporate Office, Ground Floor, Mint compound, Hyderabad-500063 in person or through Registered Post so as to reach on or before 23-01-2018 by 5 pm. A copy of the same must also be filed with the Commission Secretary, TSERC, at the address mentioned above. The objections/suggestions should be duly signed and should carry full name and postal address of the person(s) sending the objections/suggestions. If the objections/suggestions are filed on behalf of any organization or any category of consumers, it should be clearly mentioned. If the objector also wants to be heard in person it may also be specifically mentioned. The Objection/Suggestion should accompany the following statement as an overleaf-

Name & full address of the Objector	Brief details of Objection(s)/Suggestion(s)	Objections against ARR, Tariff proposals and cross subsidy surcharge & Additional Surcharge proposals of TSSPDCL	Whether copy of objection & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)
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- The Tariffs and Charges for Retail Supply to consumers and cross subsidy surcharge and additional surcharge proposed by the Discom for FY 2018-19 are indicated in the **Schedule-I** below.
- Telangana State Electricity Regulatory Commission intends to conduct a Public Hearing at Hyderabad on 08.02.2018 (Monday) from 10.30 hrs. onwards.  
Date : 28.12.2017  
Place : Hyderabad

**CHAIRMAN & MANAGING DIRECTOR**  
SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED



**NORTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSNPDCL)**

**PUBLIC NOTICE**

- Notice is hereby given to all that the Distribution Company viz. Northern Power Distribution Company of Telangana Limited (TSNPDCL) holding Distribution and Retail Supply License No. 14/2000, has, on 15-12-2017, filed before the Telangana State Electricity Regulatory Commission (TSERC), the filings of Aggregate Revenue Requirement (ARR) on 15.12.2017 & subsequently on 21.12.2017 filed the Tariff proposals for the Retail Supply business for the FY 2018-19 and cross subsidy surcharge & additional surcharge proposals for FY 2018-19. These filings have been taken on record by the Hon'ble Commission in O.P.No. 22 of 2017.
- Copies of the ARR filings and Tariff proposals including cross subsidy surcharge and additional surcharge referred above are available in the Office of the Chief General Manager (IPC & RAC) at Warangal (TSNPDCL, H.No. 2-5-312, Vidyut Bhavan, Nakkalagutta, Hanamkonda-506001) and the Superintending Engineer, Operation circles of the distribution company at Warangal Urban, Warangal Rural, Mahabubabad, Jayashankar (Bhupalpally), Jangam, Karimnagar, Jagtial, Peddapati, Khammam, Bhadradi (Kothagudem), Nizamabad, Kamareddy, Adilabad, Nirmal, Mancheril and Komaram Bheem (Asifabad). Interested persons may inspect/peruse the said filings of ARR and Tariff proposals including the cross subsidy surcharge proposals and additional surcharge proposals and take note thereof during office hours at any of the said offices free of cost. These proposals are also available on [www.tsnpdcl.in](http://www.tsnpdcl.in) and the same may be accessed at [www.tserc.gov.in](http://www.tserc.gov.in). A copy of these filings can be obtained from the above offices from 30.12.2017 onwards on payment of Rs.200/- (by cash). Also a summary of ARR and Tariff proposals which includes cross subsidy surcharge and additional surcharge proposals in English or Telugu can be separately obtained on payment of Rs.10/- (by cash).
- Objections/suggestions if any, on the ARR filings and Tariff/Charges proposals including the cross subsidy surcharge and additional surcharge proposals by the Distribution Company, together with supporting material may be sent to the Chief General Manager (IPC & RAC) H.No. 2-5-312, Vidyut Bhavan, Nakkalagutta, Hanamkonda-506001 in person or through Registered Post so as to reach on or before 23-01-2018 by 5 pm. A copy of the same must also be filed with the Commission Secretary, TSERC, at the address mentioned above. The objections/suggestions should be duly signed and should carry full name and postal address of the person(s) sending the objections/suggestions. If the objections/suggestions are filed on behalf of any organization or any category of consumers, it should be clearly mentioned. If the objector also wants to be heard in person it may also be specifically mentioned. The Objection/Suggestion should accompany the following statement as an overleaf-

Name & full address of the Objector	Brief details of Objection(s)/Suggestion(s)	Objections against ARR, Tariff proposals and cross subsidy surcharge & Additional Surcharge proposals of TSNPDCL	Whether copy of objection & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)
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- The Tariffs and Charges for Retail Supply to consumers and cross subsidy surcharge and additional surcharge proposed by the Discom for FY 2018-19 are indicated in the **Schedule-I** below.
- Telangana State Electricity Regulatory Commission intends to conduct a Public Hearing at Kamareddy on 08.02.2018 (Thursday) from 10.30 hrs. onwards.  
Date : 28.12.2017  
Place : Warangal

**CHAIRMAN & MANAGING DIRECTOR**  
NORTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

**SCHEDULE-I**

"Proposed Aggregate Revenue Requirement"				LT-VI (B) : PWS SCHEMES				HT-III: AIRPORTS, BUS STATIONS AND RAILWAY STATIONS			
DISCOM	Rs. Crores	TSSPDCL	TSNPDCL	Panchayats	kWh/kVAh	32/HP	5.00	11 kV	kVAh	390/kVA	7.50
		23,519.88	12,255.40	Municipalities	kWh/kVAh	32/HP	6.10	33 kV	kVAh	390/kVA	6.85
				Municipal Corporations	kWh/kVAh	32/HP	6.60	132 kV & Above	kVAh	390/kVA	6.45
		35,774.28									
Retail Supply Tariff/Charges to various consumers (LT & HT) under retail supply business for FY 2018-19.				LT-VII (A) : GENERAL PURPOSE				TIME OF DAY TARIFFS (6 PM TO 10 PM) AND (6 AM TO 10 AM)			
Consumer Category/ Sub Category/ Slab Structure (Units)				Energy Unit				11 kV			
Proposed Tariff				Fixed Demand Charges Rs/Month				33 kV			
Energy Unit				Energy Charges Rs/Unit				132 kV & Above			
LT-I DOMESTIC				LT-VII (B) : WHOLLY RELIGIOUS PLACES				Energy Charges to Normal Tariff			
LT-I (A) Up to 100 Units/Month				Load Upto 2kW				TIME OF DAY INCENTIVES (10 PM TO 6 AM)			
0-50				kWh				11 kV			
51-100				kWh				33 kV			
LT-I (B) (i) Above 100 & up to 200 Units/Month				Load Above 2kW				132 kV & Above			
0-100				kWh				11 kV			
101-200				kWh				33 kV			
LT-I (B) (ii) Above 200 Units/Month				LT-VIII : TEMPORARY SUPPLY				HT-IV: IRRIGATION & CPWS			
0-200				kWh				11 kV			
201-300				kWh				33 kV			
301-400				kWh				132 kV & Above			
401-800				kWh				LIGHTS AND FANS			
Above 800				kWh				11 kV			
LT-II NON DOMESTIC/ COMMERCIAL				INDUSTRIAL COLONIES				HT-V: RAILWAY TRACTION			
LT II (A) : Up to 50 Units/Month				11 kV				HT-V(A) : RAILWAY TRACTION			
0-100				kWh/kVAh				33 kV			
101-300				kWh/kVAh				HT-V(B) : HMR (TSSPDCL)			
301-500				kWh/kVAh				11 kV			
Above 500				kWh/kVAh				33 kV			
LT II (C) : Advertisement Hoardings				132 kV & Above				HT-VI : Townships & Residential Colonies (All Voltages)			
0-50				kWh/kVAh				11 kV			
51-100				kWh/kVAh				33 kV			
101-200				kWh/kVAh				132 kV & Above			
LT II (D) : Haircutting Salons having consumption up to 200 Units/Month				SEASONAL INDUSTRIES				HT-VII: TEMPORARY			
0-50				kWh/kVAh				11 kV			
51-100				kWh/kVAh				33 kV			
101-200				kWh/kVAh				132 kV & Above			
LT-III: INDUSTRIES				HT 1A Optional Category with Load upto 150 kVA				RESCO-SIRICILLA (TSNPDCL)			
Industry				11 kV				11 kV			
Seasonal Industries (off season)				kWh/kVAh				33 kV			
Pisciculture/Prawn culture				kWh/kVAh				132 kV & Above			
Sugarcane crushing				kWh/kVAh				11 kV			
Poultry Farms				kWh/kVAh				33 kV			
Mushroom, Rabbit, Sheep & Goat Farms				kWh/kVAh				132 kV & Above			
LT-IV: COTTAGE INDUSTRIES				HT-II(B): FERRO ALLOY UNITS				CROSS SUBSIDY SURCHARGE PROPOSALS FOR OPEN ACCESS CONSUMERS FOR FY 2018-19			
Cottage Industries				11 kV				Categories			
Agro Based Activity				kWh				TSSPDCL			
LT-V: AGRICULTURE				33 kV				TSNPDCL			
LT-V(A): AGRICULTURE (DSM MEASURES MANDATORY)				132 kV & Above				HIGH TENSION			
Corporate Farmers				kWh				HT Category at 11 kV			
Other than Corporate Farmers				kWh				HT-I Industrial			
LT-V (B) : OTHERS				TIME OF DAY TARIFFS (6 PM TO 10 PM) AND (6 AM TO 10 AM)				HT-II - Others			
Horticulture Nurseries with CL up to 15HP				11 kV				HT - III Airports, Busstations & Rly. Stn.			
0-50				kWh				HT - IV A Irrigation & CPWS			
51-100				kWh				HT - VI - Townships & Residential Colonies			
101-200				kWh				HT - VII - Temporary			
LT-VI : STREET LIGHTING AND PWS SCHEMES				TIME OF DAY INCENTIVES (10 PM TO 6 AM)				HT Category at 33 kV			
LT-VI (A) : STREET LIGHTING				11 kV				HT-I Industrial			
Panchayats				kWh				HT-II - Others			
Municipalities				kWh				HT - III Airports, Busstations & Rly. Stn.			
Municipal Corporations				kWh				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
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				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
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				32/kW				HT-II - Others			
				32/kW				HT - III Airports, Busstations & Rly. Stn.			
				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI - Townships & Residential Colonies			
				32/kW				HT Category at 132 kV & Above			
				32/kW				HT-I Industrial			
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				32/kW				HT - IV A Irrigation & CPWS			
				32/kW				HT - VI -			

**ANNEXURE 12: LIST OF ACRONYMS**

Agl	Agriculture/Agricultural
APERC	Andhra Pradesh Electricity Regulatory Commission
APGPCL	Andhra Pradesh Gas Power Corporation Limited
ARR	Aggregate Revenue Requirement
ATE/APTEL	Appellate Tribunal for Electricity
CAG	Comptroller and Auditor General of India
CERC	Central Electricity Regulatory Commission
CGRF	Consumer Grievance Redressal Forum
CGS	Central Generating Station
CL	Connected Load/Contracted Load
CMD	Contracted Maximum Demand
CoD	Commercial Operation Date
CoS	Cost of Service
CPWS	Composite Protected Water Supply
CSPDCL	Chhattisgarh State Power Distribution Company Ltd.
CUF	Capacity Utilisation Factor
D-to-D	Discom to Discom
DISCOMs	Distribution Companies, Distribution Licensees, Licensees
DPS	Delayed Payment Surcharge
DSM	Demand Side Management
DSTPP	Damodaram Sanjeevaiah Thermal Power Project
DTR	Distribution Transformer
EHT	Extra High Tension
ERC	Electricity Regulatory Commission
FCRTS	Full Cost Recovery Tariff Schedule
FPT	Filing for Proposed Tariff
FRP	Financial Restructuring Plan
FSA	Fuel Surcharge Adjustment
FY	Financial Year
GAIL	Gas Authority of India Limited
GCV	Gross Calorific Value
GoTS	Government of Telangana State
GoI	Government of India
HT	High Tension
I&CAD	Irrigation & Command Area Development
JNNSM	Jawaharlal Nehru National Solar Mission
kVA	kilo Volt Ampere

kW	kilo Watt
LT	Low Tension
MoP	Ministry of Power
MoU	Memorandum of Understanding
MU	Million Units
MYT	Multi Year Tariff
NPCIL	Nuclear Power Corporation of India Ltd.
NLC	Neyveli Lignite Corporation
NTPC	National Thermal Power Corporation
PGCIL	Power Grid Corporation of India Ltd.
PoC	Point of Connection
POSOCO	Power System Operation Corporation Ltd
PPA	Power Purchase Agreement
RST	Retail Supply Tariff
RSTS	Retail Supply Tariff Schedule
SLDC	State Load Dispatch Centre
TPCIL	Thermal Powertech Corporation India Ltd.
TSERC	Telangana State Electricity Regulatory Commission
TSGENCO	Telangana State Power Generation Corporation Ltd.
TSNPDCL	Northern Power Distribution Company of Telangana Limited
TSSPDCL	Southern Power Distribution Company of Telangana Limited
TSTRANSCO	Transmission Corporation of Telangana Ltd.
UDAY	Ujjwal Discom Assurance Yojana