



# **Andhra Pradesh Electricity Regulatory Commission**

4<sup>th</sup> & 5<sup>th</sup> Floors, Singareni Bhavan, Red Hills, Lakdi-ka-pul,  
Hyderabad 500 004.

## **TARIFF ORDER**

### **Retail Supply Tariffs for FY 2013-14**

In the Supply Areas of  
Central Power Distribution Company of A.P. LTD.  
(APCPDCL)  
Eastern Power Distribution Company of A.P. LTD.  
(APEPDCL)  
Northern Power Distribution Company of A.P. LTD.  
(APNPDCL)  
Southern Power Distribution Company of A.P. LTD.  
(APSPDCL)

**30<sup>th</sup> March, 2013**

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**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION  
HYDERABAD**

***Present***

**Sri A.Raghotham Rao, Chairman  
Sri C.R.Sekhar Reddy, Member  
Sri R.Ashoka Chari, Member**

Dated 30<sup>th</sup> March, 2013

**O.P. No.01 of 2013**

Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)

**O.P. No.02 of 2013**

Southern Power Distribution Company of Andhra Pradesh Limited (APSPDCL)

**O.P. No.03 of 2013**

Northern Power Distribution Company of Andhra Pradesh Limited (APNPDCL)

**O.P. No.04 of 2013**

Central Power Distribution Company of Andhra Pradesh Limited (APCPDCL)

**... Applicants**

The filings for approval of Aggregate Revenue Requirement (ARR) and Tariff proposals for the Retail Supply Business for FY 2013-14, made on 5<sup>th</sup> January, 2013, by the four (4) Distribution companies (DISCOMs) of Andhra Pradesh, which were admitted by the Commission and assigned O.P. Numbers 01 of 2013 to 04 of 2013 respectively vide the Commission letters dated 08.01.2013, came up for public hearing before several consumers, the representatives of various consumer organizations, political parties and other stakeholders at Vijayawada (APSPDCL) on 19-02-2013, at Visakhapatnam (APEPDCL) on 21-02-2013, at Warangal (APNPDCL) on 23-02-2013 and at Hyderabad (APCPDCL) on 25-02-2013, and having stood over for consideration till this day, the Commission, in exercise of the power vested in it by the Electricity Act, 2003 and Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity Regulation 4 of 2005); hereby passes this common order.

## ORDER CHAPTER-I INTRODUCTION

1. The four (4) Distribution Companies (hereinafter referred to as the 'Distribution Licensees' or 'Licensees' or 'DISCOMs') namely, the Eastern Power Distribution Company of A.P. Limited (hereinafter, 'APEPDCL' or 'EPDCL'), the Southern Power Distribution Company of A.P. Limited (hereinafter, 'APSPDCL' or 'SPDCL'), the Northern Power Distribution Company of A.P. Limited (hereinafter, 'APNPDCL' or 'NPDCL') and the Central Power Distribution Company of A.P. Limited (hereinafter, 'APCPDCL' or 'CPDCL') have filed applications for approval of their Aggregate Revenue Requirement (ARR) and Tariff proposals for the Retail Supply Business for FY 2013-14 on 5<sup>th</sup> January, 2013, which were admitted by the Commission and assigned O.P. numbers 01 of 2013 to 04 of 2013 respectively vide the Commission letters dated 08.01.2013.
2. These applications were brought in the public domain through publication of Public Notice in newspapers on 9<sup>th</sup> January, 2013 seeking objections / suggestions from the interested consumers and stakeholders by 8<sup>th</sup> February, 2013.
3. In pursuance of Public Notice, several consumers, representatives of various consumer organizations, political parties and other stakeholders (Total 266 registered Objectors) raised objections which were replied to by the Licensees. The objections/suggestions raised by the general public and/or their representatives and the arguments advanced by the Licensees in writing as well as during the course of public hearings held on 19.02.2013 at Vijayawada (SPDCL); on 21.02.2013 at Visakhapatnam (EPDCL); on 23.02.2013 at Warangal (NPDCL); and on 25.02.2013 at Hyderabad (CPDCL) and also the views of State Advisory Committee (SAC) have been taken note of.

### **FILINGS FOR DETERMINATION OF RETAIL SUPPLY TARIFF**

4. The Commission issued Regulation 4 of 2005 on 14-11-2005 laying down the Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity. This Regulation introduced Multi-Year-Tariff (MYT) framework and accordingly, each distribution licensee has to make the filings for its Aggregate Revenue Requirement (ARR) along with its Proposals For

Tariff (PFT) with the Commission for determination of tariff for (a) Wheeling and (b) Retail Supply of Electricity for a period of 5 years (called Control period). The second control period covers the years 2009-10 to 2013-14. The wheeling tariffs were determined for the control period of 5 years, namely 2009 to 2014.

5. However as regards the determination of Retail Supply Tariff for the 5 year control period, the Licensees expressed their inability to make a filing for retail supply business for a period of 5 years from 2009-10 to 2013-14, as per MYT framework and instead sought the approval of the Commission to file ARR and PFT on annual basis for the years 2009-10, 2010-11, 2011-12 and 2012-13. The same were permitted by the Commission and accordingly the filings were made and the Retail Supply Tariff was determined for the financial years 2009-10, 2010-11, 2011-12 and 2012-13.
6. Since the Retail tariff for the 1<sup>st</sup> four years of the current control period have already been issued, the present exercise is confined to determination of Retail tariff for the last year of the second control period, namely FY 2013-14. The filings for fixation of retail tariff have therefore been made by the Licensees for the tariff year 2013-14 only and are the subject matter of the present tariff determination.

#### **DELAY IN FILINGS OF ARR/TARIFF PROPOSALS**

7. The Licensees were to file their annual ARR and tariff proposals for the year 2013-14 by 30<sup>th</sup> November 2012 so that 120 days are available to the Commission as per statute to determine the tariff for the FY 2013-14 commencing from 1<sup>st</sup> April, 2013. The Licensees, however did not file the ARR and tariff proposals by 30<sup>th</sup> November, 2012 explaining that the delay was due to certain unavoidable circumstances viz., delay in receipt of information of power/fuel availability, and cost thereof, from various sources, in finalization of power purchase cost projections which have material impact on the overall ARR and the measures to be adopted by the licensees in addressing it. Licensees sought extension of time, from time to time and the Commission has granted time upto 5<sup>th</sup> January, 2013 vide letter dated 01.01.2013 (*Annexure C*).



## FILINGS OF ARR/TARIFF PROPOSALS

8. The Licensees filed the Aggregate Revenue Requirement (ARR) and Tariff Proposals for their Retail Supply Business for FY 2013-14 on 5<sup>th</sup> January, 2013.

## REVENUE REQUIREMENT AND REVENUE DEFICIT

9. The four (4) Licensees, based on their estimates of Aggregate Revenue Requirement (ARR) and anticipated annual revenues from different consumer categories, arrived at a total revenue deficit of ₹ 5885.02 Crs. for FY 2013-14 as detailed in Table 1 . Licensees made no mention about the ways and means to fill the revenue gap. The task of filling up the revenue deficit/gap was left to the Commission.

**Table 1 : Revenue requirement and deficit as filed by Licensees (₹ Crs.)**

Sl.	DESCRIPTION	CPDCL	EPDCL	NPDCL	SPDCL	Total
i)	Energy Requirement (MU)	45948.01	17097.14	15552.77	24937.44	<b>103535.36</b>
ii)	Aggregate Revenue Requirement	20714.87	8968.13	6940.06	12564.40	<b>49187.46</b>
iii)	Revenue from Current Tariffs (Net of incentives)	14524.27	6046.18	2852.47	7011.53	<b>30434.45</b>
iv)	Non - Tariff Income	40.89	49.51	21.20	36.02	<b>147.62</b>
v)	<b>Total Revenue (i+ii+iii)</b>	<b>14565.16</b>	<b>6095.69</b>	<b>2873.67</b>	<b>7047.55</b>	<b>30582.07</b>
vi)	Revenue Deficit(-)/ Surplus(+) at Current Tariff	-6149.71	-2872.44	-4066.39	-5516.85	<b>-18605.39</b>
vii)	Revenue changed through proposed tariffs	5661.56	2851.34	1133.93	3073.54	<b>12720.36</b>
viii)	Net Déficit/Surplus	-488.15	-21.10	-2932.46	-2443.31	<b>-5885.02</b>

## TARIFF PROPOSALS FILED

10. The Licensees introduced tariff rationalisation across all categories and proposed the following tariff structure:

### LT-I (Domestic)

- LT-I(A) and LT-I(B) sub categories merged into single category as LT-I
- Non-telescopic tariff structure proposed in place of the existing telescopic tariff structure.
- Proposed Energy Charges:
  - 0-50 slab - ₹ 1.45/unit
  - 0-100 slab - ₹ 2.60/unit
  - 0-200 slab - ₹ 5.65/unit
  - 0-300 slab - ₹ 6.15/unit
  - 0-500 slab - ₹ 6.50/unit
  - 0->500 slab - ₹ 7.00/unit

➤ **LT-II (Non- Domestic /Commercial)**

- LT-II(A) and LT-II(B) sub-categories merged into single sub category LT-II(A).
- LT-II(C) (Advertisements and Hoardings) is renamed as LT-II(B) (Advertisements and Hoardings).
- Proposed Fixed charges at ₹ 50/kVA/month for all consumers in this category.
- Proposed Energy Charges:  
LT-II(A):
  - 0-50 Slab - ₹ 5.40/Unit
  - 51-100 Slab - ₹ 7.35/Unit
  - >100 Slab - ₹ 8.35/UnitLT-II(B): - ₹ 10.40/unit.

➤ **LT-III (Industrial)**

- All sub-categories in LT-III(A) except Pisciculture and Prawn culture with connected load below 10 HP; Sugar cane crushing merged into single category LT-III.
- Sub-category in LT-III(A) Pisciculture and Prawn culture below 10 HP and Sugar cane crushing moved to LT-IV (Specific Purpose).
- LT-III(B) (Industrial-SSI units) moved to HT-I(A) (Industrial, 11 kV) category.
- Proposed Demand Charges - ₹ 100/kVA/month
- Proposed Energy Charges - ₹ 6.20/unit

**LT-IV (Specific purpose)**

- Created new category LT-IV (Specific Purpose) by merging certain categories which currently enjoying cross subsidy or subsidy.
- All existing sub-categories in LT-IV (Cottage Industries, Dhobhighats) and other following sub-categories moved to LT-IV (Specific Purpose).
- LT-III(A) (Pisciculture and Prawn culture below 10 HP of CL and Sugar cane crushing)
- LT-V(C) (Salt farming & Rural Horticulture Nurseries upto 15 HP) and
- LT-VII(B) (Religious Places with CL <1 kW)
- Proposed Demand Charges - ₹ 20/kVA/month
- Proposed Energy Charges - ₹ 4.07/unit

➤ **LT-V (Agricultural)**

- LT-V(C) moved to LT-IV (Specific Purpose)
- No tariff change for this category

➤ **LT-VI (Street lighting and PWS Schemes)**

- Existing LT-VI(A) Street lighting of minor and major Panchayats and LT-VI(B) PWS Schemes of minor and major Panchayats merged into single sub-category LT-VI(A) Panchayats.
- Existing LT-VI(A) Street lighting of Nagarpalikas, Municipalities & Corporations and LT-VI(B) PWS Schemes of Nagarpalikas, Municipalities & Corporations merged into single sub-category LT-VI(B) Nagarpalikas Municipalities & Corporations
- LT-VI(A) Street Lighting and PWS Schemes (Panchayats)
  - Proposed Demand Charges - ₹ 30/kVA/month
  - Proposed Energy Charges - ₹ 5.24/unit
- LT-VI(B) Street Lighting and PWS schemes (Municipalities, Nagarpalikas and Corporations)
  - Proposed Demand Charges - ₹ 30/kVA/month
  - Proposed Energy Charges - ₹ 5.74/unit

➤ **LT-VII (General Purpose)**

- LT-VII(B) (Religious Places) moved to LT-IV (Specific Purpose).
- Proposed Demand Charges - ₹ 20/kVA/month
- Proposed Energy Charges - ₹ 5.90/unit

➤ **LT-VIII (Temporary Supply)**

- LT-VIII(A) & LT-VIII(B) merged into single category LT-VIII (Temporary supply).
- Proposed Demand Charges - ₹ 20/kVA/month
- Proposed Energy Charges - ₹ 8.80/unit

➤ **HT-I (Industrial)**

- All sub-categories under HT-I (Industry-General, Lights & Fans, Colony Consumption and Seasonal Industries) merged into a single category HT-I (Industrial).
- Tariff as applicable to HT-I (Industrial) is proposed to HT-I(B) Ferro Alloys.
- LT-III(B) (Industrial) merged with HT-I (Industrial).
- Proposed Demand Charge: ₹ 400/kVA/month.
- Proposed ToD Tariff: Additional 30% of the Energy Charges.

- Proposed Energy Charge:
  - 132 kV : ₹ 5.37/unit
  - 33 kV : ₹ 5.91/unit
  - 11 kV : ₹ 6.49/unit
- **HT-II (Others)**
  - Proposed Demand Charge: ₹ 400/kVA/month.
  - Proposed ToD Tariff: Additional 30% of the Energy Charges.
  - Proposed Energy Charge:
    - 132 kV : ₹ 6.50/unit
    - 33 kV : ₹ 6.82/unit
    - 11 kV : ₹ 7.61/unit
- **HT-III (Aviation)**
  - Proposed tariff as applicable to HT-II (Others) category.
- **HT-IV (Lift Irrigation & Agriculture)**
  - HT-IV(A)(Govt. Lift Irrigation), HT-IV(B)(Agriculture) and HT-IV(C)(CPWS) merged into single category HT-IV (Irrigation & Agriculture).
  - No Demand Charges Proposed.
  - Proposed Energy Charges - ₹ 5.61/unit for all voltage levels.
- **HT-V (Railway Traction)**
  - No Demand Charges Proposed
  - Proposed Energy Charges - ₹ 6.90/unit
- **HT-VI (Townships and Residential Colonies)**
  - Proposed Demand Charges - ₹ 400/kVA/month
  - Proposed Energy Charges - ₹ 6.40/unit
- **HT-VII (Green Power)**
  - Introduced Demand Charges - ₹ 400/kVA/month
  - Proposed Energy Charges - ₹ 10.30/unit
- **HT-VIII (Rural Electricity Co-operatives)**
  - Anakapalli (EPDCL) - ₹ 2.65/unit
  - Cheepurupalli (EPDCL) - ₹ 2.10/unit
  - Sircilla (NPDCL) - ₹ 1.53/unit
  - Kuppam (SPDCL) - ₹ 0.64/unit
- **HT-IX (Temporary)**
  - Proposed Demand Charges - ₹ 400/kVA/month
  - Proposed Energy Charges - ₹ 10.30/unit

## **OTHER TARIFF PROPOSALS**

11. Licensees proposed to modify 'Minimum Charges as 'Minimum Energy Charges' for LT-I and LT-II categories of consumers.

## **NON-TARIFF PROPOSALS**

12. Licensees proposed for realization of actual Distribution losses and Agricultural sales.

## **CROSS SUBSIDY SURCHARGE FOR FY 2013-14**

13. The licensees filed a proposal for determination of cross-subsidy surcharge for Open Access transactions along with ARR filing for FY 2013-14. The licensees adopted the methodology stated in the National Tariff Policy for determination of the cross-subsidy surcharge.

## **PROCESSING OF THE PROPOSALS FILED BY THE DISCOMS**

14. The ARR filings and Tariff applications for Retail Supply Business for FY 2013-14 submitted by the Distribution Licensees were scrutinized and found to be generally in order as required under the APERC (Conduct of Business) Regulations, 1999. The Commission admitted the filings and the same were taken on record by assigning the following Original Petition (O.P.) numbers:

O.P. No. 01 of 2013 for APEPDCL  
O.P. No. 02 of 2013 for APSPDCL  
O.P. No. 03 of 2013 for APNPDCL  
O.P. No. 04 of 2013 for APCPDCL

## **NOTIFICATION CALLING FOR OBJECTIONS/SUGGESTIONS**

15. The Licensees, as directed by the commission, published a Public Notice in two English and two Telugu newspapers (in Telugu), on 09.01.2013 as shown in Annexure-D<sub>1</sub> & D<sub>2</sub> informing the general public that the Licensees have filed before the Commission their ARR and Tariff proposals in respect of their retail sale of electricity for FY 2013-14 and copies of their filings together with supporting materials were available in the offices of the Chief General Manager/RAC of the respective Licensees at their headquarters and also with all the Superintending Engineer/Operation circles. The filings were also made available on the websites of the Licensees as well as the Commission. This was to facilitate inspection/perusal/purchase of the ARR filings and tariff proposals by interested person(s). Interested person(s) and

stakeholders were requested to file their objections/suggestions on the ARR filings and Tariff proposals by 8<sup>th</sup> February, 2013. A copy was also required to be marked to APERC for record.

#### COMMUNICATION SENT TO GOAP

16. The Commission, in its letter dated 07.02.2013 addressed to the Principal Secretary to Government, Energy Department, informed the GoAP that the Commission intends to conduct public hearings (duly furnishing the schedule of the Public Hearings) on ARR filings and Tariff proposals of DISCOMs for FY 2013-14 as proposed in the Public Notices. In this letter, the Government was informed that the Government may make a statement before the Commission on the proposals of the Licensees at respective places of Public Hearings.

#### RESPONSE TO PUBLIC NOTICE

17. In response to the Public Notice, a large number of objections/ suggestions have been received by the Commission both in writing as well as during public hearings. The objections have been received from various organised trade bodies & associations, industries, organisations like Railways, political representatives & leaders, individual activists who have acquired certain experience and expertise in this area, NGOs, individuals, consumer organisations, farmer bodies and awareness groups. The complete list of registered objectors who have taken time and made suggestions is given in **Annexure E**. The details regarding number of objections / suggestions received, are given at Table 2.

**Table 2: Number of Objections / Suggestions Received**

Discom	CPDCL	EPDCL	NPDCL	SPDCL	Total
Objections/Suggestions pertains to individual Discom	47	19	19	46	<b>131</b>
Common Objections/ Suggestions for APCPDCL & APNPDCL	2	-	2	-	<b>2</b>
Common Objections/ Suggestions for APEPDCL & APSPDCL	-	1	-	1	<b>1</b>
Objections pertains to all the DISCOMs	132				<b>132</b>
<b>Total</b>	<b>181</b>	<b>152</b>	<b>153</b>	<b>179</b>	<b>266</b>

18. The Licensees were also directed to arrange their written replies to all the objectors by 15<sup>th</sup> February, 2013, before the scheduled public hearing of the concerned Licensee. The replies were also to be posted on their respective websites and the copies of these replies were to be made available to the

Commission also. The Commission invited all the Objectors who have filed their objections/suggestions to attend the Public Hearings.

#### **PUBLIC HEARINGS**

19. The ‘Schedule of Public Hearings’ as given in Table 3 was informed to the Licensees, all the Objectors, Government of Andhra Pradesh and was also adequately publicized through press release.

**Table 3 : Schedule of Public Hearings on ARRs/Tariff Filings by Licensees**

<b>Licensee</b>	<b>Date</b>	<b>Time</b>	<b>Place</b>	<b>Venue</b>
SPDCL	19.02.13	10:30 hrs to 13:30 hrs and 14:30 hrs to 17:00 hrs	Vijayawada	Siddhartha College
EPDCL	21.02.13		Visakhapatnam	Andhra Medical College Alumini Association Hall
NPDCL	23.02.13		Warangal	Zilla Parishad Hall, Warangal
CPDCL	25.02.13		Hyderabad	The FAPCCI, Federation House,11-6-841, Red Hills, Hyderabad.

20. The Commission organised four Public Hearings, one in each Licensee’s area as detailed in Table 3. During the hearings, the Licensees (DISCOMs) 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 petitions/suggestions were also considered. At the end, as per the directions of the Commission, the respective Licensees have responded on the issues raised by the objectors during the hearing.
21. The Commission would like to place on record its appreciation for the awareness and public spirit exhibited in the form of large number of letters / suggestions / objections received. While all the views and opinions expressed and objections / suggestions made by the consumers / objectors may not have been specifically reflected in this order, the Commission has made every effort to capture the spirit and essence of the objections / suggestions and made earnest attempts to respond to them.
22. The Objections received on the ARR and Tariff filings have been dealt in the respective chapters while dealing with the issue/topic of the subject. The gist of objections/suggestions, replies given by the Licensees along with the views

and directions of the Commission, wherever required, are also given at appropriate places in the respective chapters.

#### **MEETING OF STATE ADVISORY COMMITTEE (SAC)**

23. As part of the tariff exercise, a meeting of the State Advisory Committee (SAC) was held on 1<sup>st</sup> March, 2013 to elicit views on the ARR and Tariff proposals of Licensees. The suggestions made by the members of SAC were also considered by the Commission while finalizing the Tariff Order.

#### **OBJECTIONS /SUGGESTIONS ON ARR/TARIFF FILINGS**

24. **Objections/Suggestions regarding expansion of abbreviations: Sri. R.H.N. Sharma** has expressed that, the expansion of abbreviations used in the ARR filings should be enclosed along with the ARR filings.

**Licensee's Response:** The filings are made with suitable language and words as per practice in vogue.

**Commission's View:** Use of abbreviations should be kept to the minimum required. An index of expansion of abbreviations would be very useful to the concerned.

25. **Objections/Suggestions regarding errors in format of ARR filings: Sri.V. Venkataramaiah and others** have stated that in APCPDCL filings, on page No. 114 Form 3 for 2011-12 the last two columns are a repetition of the columns 3 and 4. On page No.120, figures in column 3 of Format 10 are the same as that of Format 9. The sales forecast for the FY 2013-14 provided on page No. 40 and in Form 3 on page Nos. 195 and 196 do not tally with information provided in Form 7 on pages 280-282. The additional data provided do not throw any light on such of these errors. Similar is the case with other DISCOMs. We request the Commission to direct the DISCOMs to file correct information.

**Licensee's Response:** With respect to sales data shown in Form 3 and Form 7 the deviation is due to the reason that the sales shown in Form 3 are in kWh and the sales shown in Form 7 are billed units which include kWh and kVAh units. There is typographical error in entering the values in columns 7 & 8 of Format 3 and column 3 of Format 9 & 10 and the correct values are enclosed in the replies.



**Commission's View:** It is desirable to avoid errors in filings. Greater care should be exercised before making filings.

26. **Objections/Suggestions regarding ARR filings in Telugu:** Sri. A. Muniramaiah and others have stated that, the ARR summary should be made available in Telugu.

**Licensee's Response:** This matter is under purview of Hon'ble Commission.

**Commission's View:** The DISCOMs should make efforts to provide the summary of filings in Telugu version also, which is currently being given in English.

27. **Objections/Suggestions regarding opportunity in public hearings:** Sri. P. Muniratnam and others have stated that, to conduct the Public hearings at places where the Objections are more and requested to provide 20 minutes time for presenting their voice.

**Licensee's Response:** This matter is under purview of Hon'ble Commission.

**Commission's View:** The Public Hearings are being held at one venue in each DISCOM area. All the Districts covered by the respective DISCOMs are being covered on rotation basis. The Public Hearings have been held in all the Districts of the State in recent years, by rotation and many districts have held host to Public Hearings more than once.

28. **Objections/Suggestions regarding delay in filings:** Sri. R.Venkaiah and others have stated that, the DISCOMs are filing their proposals according to the convenience of the state government. The sooner the commission restores the normal practice the better for the power sector in the state.

**Licensees' Response:** The delay is mainly due to the difficulties in arriving at energy availability and Power Procurement cost from CGS stations. However every effort would be made to file ARR in time in future.

**Commission's View:** Delay in filings causes difficulties not only to the objectors and consumers but also to the Commission. The Licensees should

endeavor to make the filings within the stipulated limit of 120 days before the commencement of ensuing financial year.

29. **Objections / Suggestions regarding cost of ARR filings in Telugu:** Sri. P. Muniratnam and others have stated that, Complete ARR filings in Telugu shall be issued for ₹ 100/- only.

**Licensees' Response:** The suggestion will be examined in the next year.

**Commission's View:** The Licensees may take a decision expeditiously.

30. **Objections/Suggestions regarding tour advance for public hearings:** Sri. K.Devarajula Naidu and others have stated that, T.A. may be given if public hearing is conducted at distant places.

**Licensees' Response:** This matter is under purview of Hon'ble Commission.

**Commission's View:** The suggestion is not implementable in practice due to financial and other practical reasons. The Commission is endeavoring to have the Public Hearings as nearer to the consumers as possible by having them in different districts of each DISCOM on annual rotation basis.

31. **Objections/Suggestions regarding filing of ARR on MYT principles:** M/s. Ferro Alloys Producers' Association and others have stated that, before filing the tariff petition, the Petitioner ought to have sought an express approval from this Hon'ble Commission to file the Tariff Petition on annual basis for the current filings tariff year 2013-14. No such express or implied permission has been sought by the Petitioner. The earlier permission accorded by the Commission at the time of tariff order 2009-10 to file the ARR for 2009-10 on an annual basis is applicable for the tariff year 2009-10 only and this limited permission granted for one year cannot be stretched for filing Tariff Petition during each year within the control period. Thus, the MYT Regulations stand clearly breached by the Petitioner. Even presuming without admitting that this Hon'ble Commission has got inherent powers to waive or exempt the MYT principles, the same should be done in a transparent manner and in the manner known to law.

**Licensees' Response:** The Licensee had filed applications before the Hon'ble Commission every year from 2009-10 to 2012-13 to file the ARR for the Retail

Supply Business for each of those years from 2009-10 to 2012-13 only due to uncertainty in availability of power on various counts and permission was granted by the Hon'ble Commission every year to file the ARR for Retail Supply Business for the corresponding year only. As the FY 2013-14 is the last year of the second control period, the Licensee has filed the ARR for the Retail Supply Business for that year only.

**Commission's View:** The Commission has accorded permission to the licensees to file the ARRs for the first four years of the MYT period 2009-14. Since only one tariff year namely 2013-14 is left in the current MYT period, there is no necessity to give specific permission for FY 2013-14, since the MYT period is anyway coming to an end by 31-03-2014 and the question of making a filing for period beyond 01-04-2014 as part of the present filing does not arise.

32. **Objections/Suggestions regarding availability of filing books of all DISCOMs:** Sri. K. Rajendra Reddy and others have stated that, a comparative study of ARRs of different DISCOMs will be of great help to assess the performance of DISCOMs. At present only the ARR copies of that particular DISCOM are made available. Copies of all DISCOMs may be made available for those who ask for them. For this purpose a procedure may be evolved through which consumers may get ARRs of other DISCOMs also.

**Licensees' Response:** Suggestion is noted. The true copy of ARR of all the DISCOMs is made available in the websites of respective DISCOMs and APERC.

**Commission's View:** The required data is available on the websites of the respective DISCOMs and can be accessed by the consumers.

33. **Objections/Suggestions regarding prior intimation of dates of public hearing:** Sri. Rajendra Reddy and others have stated that, the Hon'ble commission is requested to intimate the petitioners regarding details of Public Hearing well in advance to enable them to make travel arrangements and the Objectors should be given sufficient time to express their views. The Secretary should be instructed not to persuade the speakers to cut short their speech. Public hearing shall be conducted in planned and meaningful manner for 2 days if necessary for 3 days.

**Licensees' Response:** This matter is under purview of Hon'ble Commission.

**Commission's View:** Adequate notice of Public Hearings together with dates and venues thereof is being given by the Commission every year.

34. **Objections/Suggestions regarding recoveries from theft of power under Non-Tariff Income (NTI):** Sri. R.H.N. Sharma and others have stated that, the amount from recoveries from theft of power and malpractices is not shown in page 61 of ARR filings stating that it is not appropriate to consider these recoveries under NTI. But the amounts realized from theft and malpractices for FY 2011-12 and 2012-13 up to September were shown at page 136 of ARR. It is not understood these amounts are not covered under NTI.

**Licensee's Response:** The data furnished at page no. 61 of ARR filing book is projections for FYs: 2012-13 & 2013-14. Recoveries from theft of power are not included in the projections as the ARR filing forecasts are made based on the assumption that there will be no theft or malpractice. Whereas the data furnished at page no. 136 of ARR filing book pertains to previous 18 months actuals (2011-12 & 2012-13 upto September). This data is provided in order to inform the public/ objectors about the actual performance of the Licensee.

35. **Commission's View:** Commission agrees with the view of the licensees.

#### **PROCESSING OF TARIFF PROPOSALS FILED BY DISCOMS**

36. The Commission has examined the requirement of sales volumes filed by the Licensees, in the light of the objections /suggestions raised by various persons in writing and during public hearings and determined the required sales volumes to different consumers categories for FY 2013-14 as indicated in Table 4.

**Table 4: APERC Approved Sales for FY 2013-14 (MU)**

Consumer Category	Licensee				All licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
LT-I: Domestic	6941.57	3680.89	2460.63	4914.58	17997.67
LT-II: Non Domestic /Commercial	2222.81	838.81	537.05	1222.15	4820.83
LT-III: Industrial	994.15	530.39	230.11	941.70	2696.35
LT-IV: Cottage Industries	18.67	2.29	7.06	30.27	58.29
LT-V: Agricultural	8073.90	1714.80	3955.61	4481.59	18225.90
LT-VI: Local Bodies	922.60	313.12	402.10	436.99	2074.81
LT-VII: General	79.88	43.19	31.97	55.01	210.05

Consumer Category	Licensee				All licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
LT-VIII: Temporary	1.26	0.88	0.03	1.77	3.94
HT-I: Industrial	12609.29	4630.42	1250.26	5269.46	23759.43
HT-II: Others	1804.77	561.63	100.19	530.97	2997.57
HT -III: Airports, Bus Stations and Railway Stations	64.82	1.00	00	1.02	66.84
HT-IV: Irrigation and Agriculture	439.30	196.68	383.64	59.55	1079.17
HT-V: Railway Traction	163.38	604.63	438.95	641.37	1848.33
HT-VI: Townships and Colonies	108.96	34.76	130.53	49.03	323.28
HT-VII: Green Power	0.00	0.00	0.00	0.00	0.00
Rural Elec. Cooperatives	0.00	239.94	686.39	287.80	1214.13
Temporary	4.94	20.22	0.00	0.00	25.16
Total	34450.30	13413.65	10614.52	18923.27	77401.75

37. The Commission has examined the power purchase requirement filed by the Licensees, in the light of the objections /suggestions raised by various persons in writing and in person during public hearings and determined the power purchase requirement of the licensees for FY 2013-14 as indicated in Table 5.

**Table 5 : Sales and Power Purchase Requirement for FY 2013-14 (MkWh)**

Licensee	Filings by Licensees		Approved by APERC	
	Sales	Purchase	Sales	Purchase
CPDCL	38551.29	45948.01	34135.49	40458.83
EPDCL	14945.04	17097.14	13228.15	15126.49
NPDCL	12979.05	15552.77	10605.28	12642.09
SPDCL	21160.31	24937.44	18443.52	21620.28
All Licensees	<b>87635.69</b>	<b>103535.36</b>	<b>76412.44</b>	<b>89847.69</b>

38. The Commission, in the light of the objections/suggestions raised by various persons in writing and during public hearings, has examined the power purchase cost based on the above mentioned power purchase requirement and computed the power purchase cost at ₹ 30829.82 Crs., as indicated in Table 6.

**Table 6 : Power Purchase Cost (₹ Crs.)**

Power Purchase Cost	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensee(s)	17927.82	7767.89	5690.30	10752.37	42138.40
Approved by the Commission	13841.27	5344.53	4160.39	7483.62	30829.82

39. The Commission has analyzed the Aggregate Revenue Requirement filed by the Licensees in the light of the objections/suggestions raised by various persons in writing and during public hearings on revenue requirement and determined the Aggregate Revenue Requirement for different consumer categories for FY 2013-14 as indicated in Table 7.

**Table 7 : Revenue Requirement (₹ Crs.)**

ARR/Cost Item	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Distribution	1699.70	809.79	890.88	1273.30	4673.67
Power Purchase	13841.27	5344.53	4160.39	7483.62	30829.82
Transmission	649.53	228.35	222.85	325.09	1425.83
SLDC Charges	19.18	6.74	6.58	9.60	42.11
PGCIL Charges	195.76	67.15	67.45	94.65	425.00
ULDC Charges	12.52	4.29	4.31	6.05	27.18
Interest on Consumer Security Deposits	180.37	76.87	41.48	90.66	389.38
Supply Margin	11.69	5.62	7.23	15.38	39.92
Others expenses	0.15	0.00	0.58	0.00	0.73
Revenue Requirement	16610.16	6543.35	5401.76	9298.35	37853.63

40. The Commission has prepared a Full Cost Recovery Tariff Schedule to recover the approved revenue requirement of ₹ 37853.63 Crs. for FY 2013-14 as indicated in Table 8.

**Table 8 : Full Cost Recovery Tariff Schedule**

Consumer Category	Fixed Charge (₹ /Month)	Energy Charge (₹ /Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
<b>LT-I:DOMESTIC (Telescopic)</b>					
<b>LT I(A):Upto 50 Units/Month</b>		2.08	1.70	3.98	2.57
<b>LT I(B):Above 50 Units/Month</b>					
First 50		3.23	2.85	5.13	3.72
51-100		3.88	3.50	5.78	4.37
101-150		4.88	4.50	6.78	5.37
151-200		5.63	5.25	7.53	6.12
201-250		6.38	6.00	8.28	6.87
251-300		6.88	6.50	8.78	7.37
301-400		7.38	7.00	9.28	7.87
401-500		7.88	7.50	9.78	8.37
Above 500		8.38	8.00	10.28	8.87
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>					
<b>LT II(A):Upto 50 Units/Month</b>	50/kW	5.40	5.40	5.40	5.40
<b>LT II(B):Above 50 Units/Month</b>					

Consumer Category	Fixed Charge (₹ /Month)	Energy Charge (₹ /Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
First 50	50/kW	6.00	6.00	6.00	6.00
51-100	50/kW	6.75	6.75	6.75	6.75
101-300	50/kW	7.50	7.50	7.50	7.50
301-500	50/kW	8.00	8.00	8.00	8.00
Above 500	50/kW	8.50	8.50	8.50	8.50
<b>LT II(C):ADVERTISEMENT HOADINGS</b>	50/kW	10.40	10.40	10.40	10.40
<b>LT-III:INDUSTRY</b>					
Industries	50/HP	5.45	5.45	5.45	5.45
Seasonal Industries (off season)	50/HP	6.12	6.12	6.12	6.12
Pisciculture/Prawn culture	20/HP	4.00	4.00	4.00	4.00
Sugarcane crushing	20/HP	4.00	4.00	4.00	4.00
Poultry farms	50/HP	5.00	5.00	5.00	5.00
Mushroom & Rabbit Farms	50/HP	5.00	5.00	5.00	5.00
Floriculture in Green House	50/HP	5.00	5.00	5.00	5.00
<b>LT-IV:COTTAGE INDUSTRIES</b>					
Cottage Industries	20/HP	3.12	3.12	3.12	3.12
Agro Based Activity	20/HP	3.12	3.12	3.12	3.12
<b>LT-V:AGRICULTURE</b>					
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES</b>					
Corporate Farmers & IT Assesses		3.74	3.01	6.56	4.95
Wet Land Farmers (Holdings >2.5 acre)	525/HP *	1.74	1.01	4.56	2.95
Dry Land Farmers (Connections > 3 nos.)	525/HP *	1.74	1.01	4.56	2.95
Wet Land Farmers (Holdings <= 2.5 acre)		1.24	0.51	4.06	2.45
Dry Land Farmers (Connections <= 3 nos.)		1.24	0.51	4.06	2.45
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES</b>					
Corporate Farmers & IT Assesses		4.74	4.01	7.56	5.95
Wet Land Farmers (Holdings >2.5 acre)	1050/HP *	2.24	1.51	5.06	3.45
Dry Land Farmers (Connections > 3 nos.)	1050/HP *	2.24	1.51	5.06	3.45
Wet Land Farmers (Holdings <= 2.5 acre)	525/HP *	1.74	1.01	4.56	2.95
Dry Land Farmers (Connections <= 3 nos.)	525/HP *	1.74	1.01	4.56	2.95
<b>LT-V(C):OTHERS</b>					
Salt farming units with CL upto 15HP	20/HP	3.07	3.07	3.07	3.07
Rural Horticulture Nurseries	20/HP	3.07	3.07	3.07	3.07
<b>LT-VI:STREET LIGHTING AND PWS</b>					
<b>LT-VI(A):STREET LIGHTING</b>					0.00

Consumer Category	Fixed Charge (₹ /Month)	Energy Charge (₹ /Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
Panchayats	30/kW	4.74	4.74	4.74	4.74
Municipalities	30/kW	5.24	5.24	5.24	5.24
Municipal Corporations	30/kW	5.74	5.74	5.74	5.74
<b>LT-VI(B):PWS SCHEMES</b>					0.00
Panchayats	30/HP	3.74	3.74	3.74	3.74
Municipalities	30/HP	4.74	4.74	4.74	4.74
Municipal Corporations	30/HP	5.24	5.24	5.24	5.24
<b>LT-VII:GENERAL</b>					
<b>LT-VII(A):GENERAL PURPOSE</b>	20/kW	5.90	5.90	5.90	5.90
<b>LT-VII(B):RELIGIOUS PLACES</b>	20/kW				
<b>LT-VIII: TEMPORARY SUPPLY</b>	20/kW	8.80	8.80	8.80	8.80
<b>HT-I:INDUSTRY</b>					
<b>HT-I(A):GENERAL</b>					
11 kV	300/kVA	5.25	5.25	5.25	5.25
33 kV	300/kVA	4.82	4.82	4.82	4.82
132 kV & Above	300/kVA	4.42	4.42	4.42	4.42
<b>LIGHTS AND FANS</b>					
11 kV		5.25	5.25	5.25	5.25
33 kV		4.82	4.82	4.82	4.82
132 kV & Above		4.42	4.42	4.42	4.42
<b>INDUSTRIAL COLONIES</b>					
11 kV		5.20	5.20	5.20	5.20
33 kV		5.20	5.20	5.20	5.20
132 kV & Above		5.20	5.20	5.20	5.20
<b>SEASONAL INDUSTRIES (OFF SEASON)</b>					0.00
11 kV	300/kVA	6.42	6.42	6.42	6.42
33 kV	300/kVA	5.80	5.80	5.80	5.80
132 kV & Above	300/kVA	5.55	5.55	5.55	5.55
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>					
11 kV		6.25	6.25	6.25	6.25
33 kV		5.82	5.82	5.82	5.82
132 kV & Above		5.42	5.42	5.42	5.42
<b>HT-I(B):FERRO ALLOY UNITS</b>					
11 kV		5.09	5.09	5.09	5.09
33 kV		4.66	4.66	4.66	4.66
132 kV & Above		4.26	4.26	4.26	4.26
<b>HT-II:OTHERS</b>					
11 kV	300/kVA	6.42	6.42	6.42	6.42
33 kV	300/kVA	5.80	5.80	5.80	5.80



Consumer Category	Fixed Charge (₹ /Month)	Energy Charge (₹ /Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
132 kV & Above	300/kVA	5.55	5.55	5.55	5.55
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>					
11 kV		7.42	7.42	7.42	7.42
33 kV		6.80	6.80	6.80	6.80
132 kV & Above		6.55	6.55	6.55	6.55
<b>HT-III:AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>					
11 kV	300/kVA	6.10	6.10	6.10	6.10
33 kV	300/kVA	5.53	5.53	5.53	5.53
132 kV & Above	300/kVA	5.24	5.24	5.24	5.24
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>					
11 kV		7.10	7.10	7.10	7.10
33 kV		6.53	6.53	6.53	6.53
132 kV & Above		6.24	6.24	6.24	6.24
<b>HT-IV:IRRIGATION, AGRICULTURE AND CPWS</b>					
Government LIS		4.89	4.89	4.89	4.89
Agriculture		4.89	4.89	4.89	4.89
CPWS		3.91	3.91	3.91	3.91
<b>HT-V:RAILWAY TRACTION</b>		5.88	5.88	5.88	5.88
<b>HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES</b>	50/kVA	5.20	5.20	5.20	5.20
<b>HT-VII:GREEN POWER</b>		10.30	10.30	10.30	10.30
<b>HT-VIII:TEMPORARY</b>					
<b>RURAL ELECTRIC CO-OPERATIVES</b>					
Anakapally		0.00	1.32	0.00	0.00
Chipurupally		0.00	0.55	0.00	0.00
Sircilla		0.00	0.00	0.86	0.00
Kuppam		0.00	0.00	0.00	0.34
* Equivalent flat rate tariff per Year					

#### COMMUNICATION RECEIVED FROM GOAP

41. In response to the Commission's letter dated 07-02-2013, the Principal Secretary to Government, Energy Department, GoAP, vide letter No.823/Pr.II(1)/2013-1 dated 12.03.2013, informed that "Government of Andhra Pradesh have decided to provide subsidy amount of ₹ 5500 Crs. in

accordance with Section 65 of the Electricity Act, 2003 for the tariff proposal of DISCOMs submitted for Financial Year 2013-14”.

42. Taking into consideration the amount of ` 5500 Cr., indicated in GoAP. letter No.823/Pr.II(1)/2013-1, dated 12-03-2013, as subsidy u/s 65 of Electricity Act, 2003 for the tariff proposals of the DISCOMs, the Commission modified the rates for LT-V (Agriculture) and for Domestic consumers with consumption below 50 units/month (LT-I) to reflect the respective rates contained in the tariff filings and prepared the Retail Supply Tariff Schedule for FY 2013-14 as indicated in Table 9.

**Table 9 : Retail Supply Tariff Schedule**

Consumer Category	Fixed Charge (₹ /Month)	Energy Charge (₹ /Unit)
<b>LT-I:DOMESTIC (Telescopic)</b>		
<b>LT I(A):Upto 50 Units/Month</b>		1.45
<b>LT I(B):Above 50 Units/Month</b>		
First 50		2.60
51-100		3.25
101-150		4.25
151-200		5.00
201-250		5.75
251-300		6.25
301-400		6.75
401-500		7.25
Above 500		7.75
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>		
<b>LT II(A):Upto 50 Units/Month</b>	50/kW	5.40
<b>LT II(B):Above 50 Units/Month</b>		
First 50	50/kW	6.00
51-100	50/kW	6.75
101-300	50/kW	7.50
301-500	50/kW	8.00
Above 500	50/kW	8.50
<b>LT II(C):ADVERTISEMENT HOARDINGS</b>	50/kW	10.40
<b>LT-III:INDUSTRY</b>		
Industries	50/kW	5.45
Seasonal Industries (off season)	50/kW	6.12
Pisciculture/Prawn culture	20/kW	4.00
Sugarcane crushing	20/kW	4.00
Poultry farms	50/kW	5.00
Mushroom & Rabbit Farms	50/kW	5.00
Floriculture in Green House	50/kW	5.00
<b>LT-IV:COTTAGE INDUSTRIES</b>		
Cottage Industries	20/kW	3.12
Agro Based Activity	20/kW	3.12
<b>LT-V:AGRICULTURE</b>		
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES</b>		
Corporate Farmers & IT Assesses		2.50
Wet Land Farmers (Holdings >2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections > 3 nos.)	525/HP *	0.50
Wet Land Farmers (Holdings <= 2.5 acre)		0.00

Consumer Category	Fixed Charge	Energy Charge
	(₹ /Month)	(₹ /Unit)
Dry Land Farmers (Connections <= 3 nos.)		0.00
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES</b>		
Corporate Farmers & IT Assesses		3.50
Wet Land Farmers (Holdings >2.5 acre)	1050/HP *	1.00
Dry Land Farmers (Connections > 3 nos.)	1050/HP *	1.00
Wet Land Farmers (Holdings <= 2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections <= 3 nos.)	525/HP *	0.50
<b>LT-V(C):OTHERS</b>		
Salt farming units with CL upto 15HP	20/HP	3.07
Rural Horticulture Nurseries	20/HP	3.07
<b>LT-VI:STREET LIGHTING AND PWS</b>		
<b>LT-VI(A):STREET LIGHTING</b>		
Panchayats	30/kW	4.74
Municipalities	30/kW	5.24
Municipal Corporations	30/kW	5.74
<b>LT-VI(B):PWS SCHEMES</b>		
Panchayats	30/HP	3.74
Municipalities	30/HP	4.74
Municipal Corporations	30/HP	5.24
<b>LT-VII:GENERAL</b>		
<b>LT-VII(A):GENERAL PURPOSE</b>	20/kW	5.90
<b>LT-VII(B):RELIGIOUS PLACES</b>	20/kW	4.07
<b>LT-VIII: TEMPORARY SUPPLY</b>	20/kW	8.80
<b>HT-I:INDUSTRY</b>		
<b>HT-I(A):GENERAL</b>		
11 kV	300/kVA	5.25
33 kV	300/kVA	4.82
132 kV & Above	300/kVA	4.42
<b>LIGHTS AND FANS</b>		
11 kV		5.25
33 kV		4.82
132 kV & Above		4.42
<b>INDUSTRIAL COLONIES</b>		
11 kV		5.20
33 kV		5.20
132 kV & Above		5.20
<b>SEASONAL INDUSTRIES</b>		
11 kV	300/kVA	6.42
33 kV	300/kVA	5.80
132 kV & Above	300/kVA	5.55
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		6.25
33 kV		5.82
132 kV & Above		5.42
<b>HT-I(B):FERRO ALLOY UNITS</b>		
11 kV		5.09
33 kV		4.66
132 kV & Above		4.26
<b>HT-II:OTHERS</b>		
11 kV	300/kVA	6.42
33 kV	300/kVA	5.80
132 kV & Above	300/kVA	5.55
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		7.42

Consumer Category	Fixed Charge	Energy Charge
	(₹ /Month)	(₹ /Unit)
33 kV		6.80
132 kV & Above		6.55
<b>HT-III: AIRPORTS, BUS STATIONS AND RAILWAY STATIONS</b>		
11 kV	300/kVA	6.10
33 kV	300/kVA	5.53
132 kV & Above	300/kVA	5.24
<b>TIME OF DAY TARIFFS (6 PM to 10 PM)</b>		
11 kV		7.10
33 kV		6.53
132 kV & Above		6.24
<b>HT-IV: IRRIGATION, AGRICULTURE AND CPWS</b>		
Government LIS		4.89
Agriculture		4.89
CPWS		3.91
<b>HT-V: RAILWAY TRACTION</b>		5.88
<b>HT-VI: TOWNSHIPS AND RESIDENTIAL COLONIES</b>	50/kVA	5.20
<b>HT-VII: GREEN POWER</b>		10.30
<b>HT-VIII: TEMPORARY</b>	1.5 times of corresponding HT category	
<b>RURAL ELECTRIC CO-OPERATIVES</b>		
Anakapally		1.32
Chipurupally		0.55
Sircilla		0.86
Kuppam		0.34
* Equivalent flat rate tariff per Year		

43. The Commission worked out the Licensee-wise utilization of the subsidy amount u/s 65 of Electricity Act, 2003 for FY 2013-14, for finalizing the Retail Tariff Schedule for FY 2013-14, at ₹ 5490.81 Crs. as per the break-up indicated in Table 10.

**Table 10: Licensee-wise utilization of the subsidy amount u/s 65 of Electricity Act, 2003 for FY 2013-14**

Category	Subsidy Required ₹ Crs.)				
	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
LT-I: DOMESTIC	437.86	93.04	621.35	552.29	1704.54
LT-V: AGRICULTURAL	999.83	86.79	1604.14	1095.50	3786.26
<b>Total</b>	<b>1437.69</b>	<b>179.83</b>	<b>2225.49</b>	<b>1647.79</b>	<b>5490.81</b>

44. The Commission addressed a letter to GoAP. Vide Lr.No.APERC/Secy/S-361-RSTO-2013-14/2012-13, dated 18-03-2013 informing that the Commission after examining the projected sales, the percentage of losses in the system, the availability of power, the cost of power purchases, the proposed tariffs, the extent of cross subsidy existing in the proposed tariffs and the objections and suggestions received from the consumers and general public, had

determined the Revenue Requirement for FY 2013-14 at ₹ 37853.63 Crs. as against an amount of ₹ 49187.45 Crs. filed by the four (4) DISCOMs.

45. In this letter the GoAP was informed that the Commission had prepared a Full Cost Recovery Tariff Schedule (FCRTS) (Table 8) to enable recovery of determined revenue requirement. The Government was further informed that, the Commission had prepared a Retail Supply Tariff Schedule for FY 2013-14 (Table 9) by taking note of the amount of ₹ 5500 Crs. indicated in GoAP letter dated 12.03.2013 as subsidy u/s 65 of Electricity Act, 2003 for the tariff proposals of the DISCOMs. The GoAP was informed that in this Retail Tariff Schedule, the rates for LT-V (Agriculture) and for LT-I(A) (Domestic consumers with consumption below 50 units/month) had been fixed at the rates of tariff filings.
46. The Commission informed the GoAP that the utilization of the subsidy amount for FY 2013-14 u/s 65 of the Electricity Act, 2003 would be ₹ 5,490.81 Crs. (Table 10) against ₹ 5500 Crs. indicated by GoAP and that the Commission was proposing to issue the Tariff Order for FY 2013-14 incorporating the rates as mentioned in the Retail Supply Tariff Schedule (Table 9).
47. The GoAP was further informed that if the GoAP wished to further reduce any of the tariffs of the Retail Supply Tariff Schedule then the consequential additional subsidy would have to be borne by the GoAP and that a communication u/s 65 of the Electricity Act, 2003 would have to be sent by GoAP, to enable the Commission to release the Tariff Order for FY 2013-14 as per the rates indicated at Annexure-V (Table 9) enclosed to the letter.
48. In response to the Commission's letter dated 18.03.2013, the State Government vide letter No.823/Pr.II(1)/2013 dated 23.03.2013 of the Principal Secretary to Government, Energy Department, issued directions u/s 108 of the Electricity Act, 2003 to make uniform supply tariff for all categories of consumers across all DISCOMs of the State for FY 2013-14 in the public interest. In the said letter, GoAP has also requested the Commission for the following:
  - a) To provide alternative fuel cost (either RLNG or any other liquid fuel like Naphtha which cost around ₹ 12.50 per unit) with due cost recovery through the tariff order, since there will not be any supply of Reliance KG Basin gas starting from 1<sup>st</sup> April, 2013 (KG Basin gas

contributed nearly 5000 MU to the Grid in the 11 months ending February).

- b) To accommodate the higher cost of power procurement from all available short-term sources like last year.
  - c) To indicate the specific action to be taken by the DISCOMs for arranging alternate supply on the event of any deficits in hydel generation (the Commission has considered nearly 3,500 units of extra hydel generation than production in 2012-13).
49. Further, the DISCOMs vide letter No.CGM (Comml.)/ SE (IPC)/DE (RAC) /D.No.5004/13, dated 26.03.2013 submitted the following points for consideration of the Commission.
- a. That the DISCOMs have received the data relevant to short-term purchase cost, through bids in the short-term tender which varies between ₹ 5.14/unit to ₹ 7.98/unit. Even the exchange rates of short-term have been phenomenally varied than the price arrived at earlier.
  - b. Quantum of power to be made available for FY 2013-14 has been arrived based on data of 2012-13 which is on restricted supply, hence for FY 2013-14 the quantum of power may be assessed on unrestricted supply basis.
50. The important points that emerge from the GoAP letter No.823/Pr.II(1)/2013 dated 23.03.2013 above cited and the letter of the DISCOMs dated 26.03.2013 are the following:
- a. There is a need to revisit the issue of procurement of power through RLNG atleast partially to manage the power supply situation during the summer months which is otherwise likely to be very critical.
  - b. There is a need to revisit the fixation of average price for market purchases in view of the reasons adduced in the DISCOMs letter dated 26.03.2013.
51. The Commission has undertaken a thorough re-scrutiny of the facts and figures relating to the filings in the light of the consumers' objections / suggestions, above suggestions of GoAP and above mentioned requests of DISCOMs and has re-determined the retail supply tariffs for FY 2013-14 as indicated in the following chapters.

## CHAPTER-II SALES FOR FY 2013-14

### INTRODUCTION

52. In this chapter, the Commission has examined the requirement of sales volumes filed by the Licensees, in the light of the objections /suggestions raised by various persons in writing and during public hearings and determined the required sales volumes to different consumers categories for FY 2013-14.

### FILING DETAILS

#### SALES

53. The four Licensees forecast the sale of energy to different consumer categories in their respective licensed supply areas at 87635 MU during FY 2013-14. The Licensees stated that they have followed both trend and end user methods, and forecasted the sales volumes for FY 2013-14. The forecasted sales to different consumer categories as filed by the Licensees are given in Table 11.

**Table 11 : Sales forecast as per Filings for FY 2013-14 (MU)**

Consumer Category	Licensee				All licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
LT-I: Domestic	8506.74	4110.83	3413.93	6047.36	22078.86
LT-II Non Domestic/Commercial	2629.12	878.47	625.20	1361.27	5494.06
LT-III: Industrial	1449.00	626.48	332.41	1203.78	3611.67
LT-IV: Cottage Industries	19.26	2.63	8.25	27.31	57.46
LT-V: Agricultural	9631.76	2007.55	5032.65	5440.37	22112.33
LT-VI: Local Bodies	966.19	316.00	453.21	485.85	2221.26
LT-VII: General	87.42	43.62	37.11	57.01	225.17
LT-VIII: Temporary	2.52	1.18	0.00	0.52	4.23
HT-I: Industrial	11945.00	5189.53	1235.71	5092.40	23462.64
HT-II: Others	2078.42	620.05	100.84	422.16	3221.47
HT-III:Aviation	61.37	0.98	0.00	1.00	63.35
HT-IV: Irrigation and Agriculture	828.60	218.05	434.69	150.47	1631.82
HT-V: Railway Traction	180.00	620.33	441.53	526.60	1768.47
HT-VI: Townships and Res. Colonies	132.41	37.43	129.03	23.92	322.78
HT-VII: Green Power	0.00	0.00	0.00	0.00	0.00
HT-VIII: RESCOS	0.00	259.34	734.49	320.27	1314.10
HT-IX: Temporary	33.48	12.54	0.00	0.00	46.03
<b>Total</b>	<b>38551.29</b>	<b>14945.04</b>	<b>12979.05</b>	<b>21160.31</b>	<b>87635.69</b>

## **OBJECTIONS /SUGGESTIONS ON SALES TO AGRICULTURE**

54. During the public hearings, a number of participants, particularly those belonging to / representing the farming community expressed their points of view on the following important issues concerning supply of electricity to the Agriculture sector.
55. **Objections/Suggestions regarding estimation of LT Agriculture Consumption:** Sri. Samineni Rama Rao and others have stated that, AP DISCOMs have estimated that around 23 % of total consumption is agriculture. But around 5 lakh agriculture services are not in use. As there are no separate meters for agriculture DTRs, DISCOMs are showing more agriculture consumption. Hence, Hon'ble Commission is requested to direct the DISCOMs to calculate the agriculture consumption by providing meters on each agriculture distribution transformer.

During the year 2013-14, LT agriculture categories are expected to consume 22,112 MU accounting for 21.36% of the total power to be supplied in the state. But this consumption estimate is not reliable as it is based on false assumptions. Each Discom presented a different explanation though claiming to follow the method prescribed by the commission. There is no uniformity among the DISCOMs in explaining the estimation of agriculture consumption. The Commission may direct the DISCOMs to provide district/circle wise data on number of agricultural connections, number of DTRs servicing them, number of sample DTRs, number of valid DTR readings, and the related agriculture consumption estimate.

The DISCOM is using consumption estimate based on 2001 year census, whereas 2011 census data is available. This has a significant impact on consumption estimates and all the consequential effects on the correctness of the ARR/Tariff, Cost of Service (CoS), cross subsidy trajectory mandate of relevant Acts & NTP and the obvious need from A.P. Government for an appropriate subsidy estimate for their policy decisions.

The Petitioners have not yet fully implemented the Commission approved new methodology and thus the sales for LT Category -V (Agriculture) for FY 2013-14 has not been projected as per the same. It would not be appropriate to consider the sales projection made by the licensees as it seems to be on higher side and requires a detailed examination. Till the time the new methodology is being implemented by the licensees, no additional sales to



the agricultural sector may be considered. Non- implementation of new methodology is a clear violation of Commission's directive.

**Licensees' Response:** The licensees have used the Commission approved method for forecasting Agricultural sales and they are in the process of moving to the new ISI methodology of forecasting Agricultural sales. The licensees replied that they are making all efforts to implement ISI methodology.

In each Discom sample agriculture DTRs are chosen and meters will be fixed on LV side of the DTR. The consumption recorded in the Meter on LV side of sample DTRs in that mandal is taken and the designated LT line losses (based on the type, configuration, and length of the lines under these DTRs) are deducted to get actual energy consumed by pump-sets. The specific consumption per HP/month is arrived and this will be made applicable to all un-metered services by multiplying specific consumption and connected load in HP to arrive at total agriculture consumption. All the calculations are submitted to Hon'ble APERC every month. This statistical basis for estimation is approved by the Hon'ble Commission.

**Commission's View:** The Commission is of the view that there is no alternative except for complete metering of agricultural services for proper consumption estimate. In the absence of agricultural metering, the Licensees have to follow the methodology prescribed by the Commission for estimation of agricultural consumption.

56. **Objections/Suggestions regarding supply hours for LT Agriculture:** Sri. **Gade Diwakar and others** have stated that, seven hours supply is not being maintained for the agriculture sector anywhere in the state. There should be similar policy for all the agriculture consumption (Lift Irrigation maintained by Govt or Societies). Requested for 20 hours power supply to agriculture sector.

**Licensees' Response:** Licensees have replied that as per GoAP policy seven hours supply is given to agriculture sector. The suggestion of 20 hours power supply to agriculture sector cannot be implemented now due to the huge deficit between demand and supply of electricity.

**Commission's View:** The Commission in the tariff order is indicating the figure of approved agricultural sales volume for each Licensee. The Licensees are expected to restrict the supplies to the approved agricultural sales volume.

57. **Objections/Suggestions regarding fixing of capacitors:** Sri Bonthala Chandra Reddy and others have expressed that, EPDCL has proved that they can overcome from load reliefs and the financial losses to some extent by reducing the distribution losses. Other DISCOMs shall take the similar steps for reduction of losses. Also the distribution losses can be reduced by 15 to 20% by installation of capacitors. It is requested to direct the DISCOMs for fixing of capacitors.

**Licensee's Response:** CPDCL has replied that "Till now 1075 Nos., 2 MVAR capacitor banks and 927 Nos. 600 KVA capacitor banks are installed in CPDCL. All power factors are being monitored at 33 KV level regularly. In CPDCL the average power factor is 0.96". NPDCL has replied that in "Rythusadassu" awareness is being created among farmers regarding the benefits for installing capacitor banks. The new service will be released only when capacitor bank and other DSM measures are strictly followed".

**Commission's View:** The suggestion of the Objectors is noted by the Commission. The stipulation regarding installation of capacitors of adequate rating, for availing free power, is already prescribed by the Commission in earlier tariff orders. In the present tariff order also, the Commission proposes to prescribe such a stipulation. The Commission commends the initiative taken by NPDCL in conducting "Rythusadassulu" for creating awareness among farmers regarding the benefits for installing capacitor banks.

58. **Objections/Suggestions regarding metered sales:** Sri Sivaramakrishna and others have expressed that, metered sales are to be increased year after year by strengthening the distribution system and arresting theft of energy. A concrete program to increase metered sales and reduce loss level has to be derived involving all the concerned by fixing the responsibility. The distribution losses have not been projected on a circle-wise basis by CPDCL and CPDCL should be directed to reduce losses on feeder-wise basis. The CPDCL should show more interest in arresting the energy that is being pilfered

and hundred percent metering should be adhered to for arriving at correct estimation of distribution losses.

**Licensee's Response:** CPDCL has replied that it is taking steps to increase the metered sales over the next 3-4 years. Meter sales are increasing year by year and CPDCL is putting in efforts to increase it further to achieve the target. During the last two years due to power cuts and R & C measures, the metered sales are not improved as per the target fixed by APERC. Further the DISCOM has released 55420 new agriculture services during 2011-12. Hence the agriculture consumption is increased.

**Commission's View:** The DISCOMs have not achieved the targeted metered sales during FY 2011-12 & 2012-13. The reduction in targeted metered sales may be partly due to imposing of power cuts by DISCOMs and implementation of R & C orders, due to shortage of power supply. However, the DISCOMs should make efforts in curbing the theft of energy and thereby reducing the commercial losses and increasing the metered sales.

59. **Objections/Suggestions regarding allocation of power to CPDCL:** Sri T. Harish Rao, MLA and others have expressed that, the demand in APCPDCL is increasing every year by 10 to 15%. As the generation is not raised to the expectation level and by not allocating the power as per the field requirements, CPDCL and NPDCL are not able to provide the supply to agriculture sector and the farmers in these areas are not getting sufficient power supply. In the CPDCL region the population growth is higher due to migration of people from different areas. Due to non allocation of power as per the growth in the demand the people in the area of CPDCL are suffering more. Hence APERC/Govt is requested to re-allocate the power as per requirement of the DISCOMs.

**Licensee's Response:** CPDCL has replied that it has already requested the Government to consider the re-allocation of percentages.

**Commission's View:** The Allocation of power from APGENCO stations is under the purview of GoAP. The DISCOMs may pursue the matter with the GoAP., appropriately.

60. **Objections/Suggestions regarding allocation of power to NPDCL:** Sri T. Harish Rao, MLA and others have expressed that, in the past when IT

industries have come up in Hyderabad city, some part of the allocated power of all others DISCOMs was transferred to CPDCL to meet the demand. Later in 2012, the allocated portions given to CPDCL were returned back to all other DISCOMs except NPDCL. Lot of injustice was done to NPDCL in allocation of power.

**Licensee's Response:** The CMD, NPDCL during the public hearing held on 23-02-2013 has replied that the matter will be taken up in the APPCC meeting.

**Commission's View:** The CMD, APNPDCL may pursue the matter with APPCC suitably.

61. **Objections/Suggestions regarding adoption of DSM measures:** Sri Sarampally Mallareddy and others have stated that, it is said that estimation of agricultural consumption is based on three factors. Assumption of savings in consumption due to installation of capacitors on existing pump-sets. How much power is saved due to installation of capacitors on existing pump-sets. Assumption of consumption towards new services being released and considering savings due to adoption of complete DSM measures including capacitors, ISI Motors and HDPE pipes on these services (ARR P.40). Details regarding assumption of consumption towards new services being released and considering savings due to adoption of complete DSM measures including Capacitors, ISI Motors and HDPE pipes may please be provided.

**Licensee's Response:** Savings at DISCOM level is to be analyzed. The Government of Andhra Pradesh declared a modified agriculture policy in January 2005 aimed towards incentivizing Demand Side Management in the agriculture sector. New services shall be released with DSM measures only. The average consumption per HP is arrived as 119.82 units. Based on the quantum of new services released corresponding energy projections is made.

**Commission's View:** The DISCOMs are directed:

*To provide the information on energy saving arrived due to installation of capacitors on existing pump-sets within three months to the Commission with a copy of the same on their websites.*

62. **Objections/Suggestions regarding unauthorized agriculture loads:** Sri D.Ramaswami Reddy and others have opined that, many unauthorized agricultural additional loads were existing and pilferage of power for

agriculture use was taking place. (ARR P.40). Has anybody prevented the Licensee from taking necessary steps to remove services with additional loads? Why not the Licensee take appropriate steps to check pilferage of power?

**Licensee's Response:** Contents are noted and "regularization of unauthorized additional loads" and "removal of directly tapped services" is being done.

**Commission's View:** The suggestion of the objector on removal of unauthorized Agriculture services and thereby reducing the pilferage of power is noted by the Commission. The DISCOMs are directed;

*To take necessary steps for removal/ regularisation of un-authorized agricultural services.*

## COMMISSION ANALYSIS AND CONCLUSIONS

63. For the tariff year 2012-13 the Commission had approved a total sales volume of 77401.75 MU with the DISCOM-wise break-up indicated in Table 12.

**Table 12: Sales Volumes Approved in Tariff Order 2012-13 (MU)**

Categories	Sales Volumes Approved in Tariff Order 2012-13			
	CPDCL	EPDCL	NPDCL	SPDCL
LT-I: Domestic	6941.57	3680.89	2460.63	4914.58
LT-II: Non-Domestic/Commercial	2222.81	838.81	537.05	1222.15
LT-III: Industrial	1270.23	602.62	314.08	1026.28
LT-IV: Cottage Industries	18.67	2.29	7.06	30.27
LT-V: Agricultural	8073.90	1714.80	3955.61	4481.59
LT-VI: Local Bodies	922.60	313.12	402.10	436.99
LT-VII: General	79.88	43.19	31.97	55.01
LT-VIII: Temporary	1.26	0.88	0.03	1.77
HT-I: Industrial	12333.22	4558.18	1166.29	5184.89
HT-II: Others	1869.59	562.63	100.19	531.99
HT-IV: Irrigation and Agriculture	439.30	196.68	383.64	59.55
HT-V: Railway Traction	163.38	604.63	438.95	641.37
HT-VI: Townships and Res. Colonies	108.96	34.76	130.53	49.03
HT-VII: Green Power	0.00	0.00	0.00	0.00
HT-VIII: Rural Elec. Cooperatives	0.00	239.94	686.39	287.80
HT-IX: Temporary	4.94	20.22	0.00	0.00
<b>Total</b>	<b>34450.30</b>	<b>13413.65</b>	<b>10614.52</b>	<b>18923.27</b>

64. The sales for FY 2012-13, based on actuals for the first half year and projected quantities for second half year, likely to be achieved is indicated in Table 13.

**Table 13: Sales Volumes achieved during FY 2012-13 (Actuals for first half year and projected quantities for second half year) (MU)**

Categories	Sales Volumes achieved during FY 2012-13 (Actuals for first half year and projected quantities for second half year)			
	CPDCL	EPDCL	NPDCL	SPDCL
LT-I: Domestic	6229.13	3142.05	2282.61	4312.78
LT-II: Non-Domestic/Commercial	2049.93	685.25	448.81	995.39
LT-III: Industrial	1170.75	485.31	289.05	880.43
LT-IV: Cottage Industries	17.66	2.39	7.16	25.57
LT-V: Agricultural	9173.10	1911.95	4747.35	5181.47
LT-VI: Local Bodies	817.07	276.10	386.78	433.60
LT-VII: General	77.07	38.97	31.32	51.18
LT-VIII: Temporary	2.39	0.99	0.00	0.60
HT-I: Industrial	9107.41	3756.59	999.90	3567.55
HT-II: Others	1646.98	425.60	77.01	314.65
HT-III: Aviation	63.46	0.65	0.00	1.02
HT-IV: Irrigation and Agriculture	450.65	203.27	288.28	60.51
HT-V: Railway Traction	165.71	602.61	429.68	532.36
HT-VI: Townships and Res. Colonies	120.98	32.66	127.58	24.99
HT-VII: Green Power	0.00	0.00	0.00	0.00
HT-VIII: Rural Elec. Cooperatives	0.00	234.98	626.61	285.51
HT-IX: Temporary	32.00	12.79	0.00	0.00
<b>Total</b>	<b>31124.29</b>	<b>11812.18</b>	<b>10742.14</b>	<b>16667.61</b>

65. From the above tables, it is seen that the actual sales in the first half of FY 2012-13 together with the projected volumes for the second half of the year FY 2012-13, are less than the sales approved in the tariff order of the FY 2012-13, for all categories except for agriculture sales. The agriculture sales for the year FY 2012-13 computed on the above basis are more than the approved quantity of the Tariff order.
66. The Commission has examined the sales forecast by the licensees for FY 2013-14 for different consumer categories and found that the sales projections of all categories are on the high side.
67. In the absence of metering, the agriculture sales furnished by the licensees for the FY 2012-13 are only an “assessed quantity” which cannot be accepted as the basis for determining the requirement for FY 2013-14.

## DETERMINATION OF SALES VOLUMES FOR ALL CATEGORIES (EXCEPT AGRICULTURE SALES) FOR FY 2013-14

68. The sales achieved during the FY 2012-13 are less (except agriculture) compared to the approved sales in the Tariff Order. Taking into consideration of sales achieved for all categories (except agriculture) during the previous financial year, and considering the availability of power during the FY 2013-14 and also considering the natural growth for all categories over the previous year, it would be reasonable to limit the sales volume of FY 2013-14 to the approved sales figure for FY 2012-13.

**Table 14: APERC Approved Sales Volumes for FY 2013-14 (MU) (Except LT & HT Agriculture & RESCOs)**

Consumer Category	Licensee				All licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
LT-I: Domestic	6941.57	3680.89	2460.63	4914.58	17997.67
LT-II: Non Domestic /Commercial	2222.81	838.81	537.05	1222.15	4820.83
LT-III: Industrial	1270.23	602.62	314.08	1026.28	3213.20
LT-IV: Cottage Industries	18.67	2.29	7.06	30.27	58.29
LT-VI: Local Bodies	922.60	313.12	402.10	436.99	2074.81
LT-VII: General	79.88	43.19	31.97	55.01	210.05
LT-VIII: Temporary	1.26	0.88	0.03	1.77	3.94
HT-I: Industrial	12333.22	4558.18	1166.29	5184.89	23242.58
HT-II: Others	1804.77	561.63	100.19	530.97	2997.57
HT-III Aviation	64.82	1.00	00	1.02	66.84
HT-V: Railway Traction	163.38	604.63	438.95	641.37	1848.33
HT-VI: Townships and Colonies	108.96	34.76	130.53	49.03	323.28
HT-VII: Green Power	0.00	0.00	0.00	0.00	0.00
HT-IX: Temporary	4.94	20.22	0.00	0.00	25.16
Total	25937.11	11262.22	5588.88	14094.33	56882.55

## DETERMINATION OF SALES VOLUMES FOR LT-V: AGRICULTURE

69. The sales forecast to LT-V- Agricultural consumer category made by DISCOMs is mostly based on DTR meter reading data and not based on Commission approved methodology. In view of uncertainty with regard to actual agricultural consumption due to lack of agricultural metering, the failure of the Licensees to implement the methodology prescribed by the Commission even after 2 years of the Commission prescribing the same, the overall power deficit scenario and severe criticism from objectors that the projection of

agricultural sales filed by Licensees is too high, the Commission has decided to approve the sales to LT-V Agriculture at 18226 MU for FY 2013-14. The details are given in Table 15. The Licensees are directed;

*To follow the new methodology approved by the Commission in the next Tariff filing for Retail Supply of Electricity without fail. Each Licensee shall file monthly progress report with the Commission on the implementation of new methodology while keeping a copy on their websites.*

**Table 15: Sales Volume to LT-V: Agriculture (MU) for FY 2013-14**

Sales Volume	Licensee				Total for All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensees	9631.76	2007.55	5032.65	5440.37	22112.33
Approved by APERC	8073.90	1714.80	3955.61	4481.59	18225.90

#### **DETERMINATION OF SALES VOLUMES FOR HT-IV: IRRIGATION AND AGRICULTURE FOR FY 2013-14**

70. The sales forecast to HT-IV-Irrigation and agriculture consumer category relies mostly on anticipation of coming up of different lift irrigation schemes. However, the actual sales volumes to this category are lower in recent past years compared with the estimates made by the Licensees. This issue has been analyzed in detail in the Tariff Order issued for FY 2011-12. Since much uncertainty exists with regard to the coming up of many lift irrigation schemes, the Commission has fixed the sales volume to this category at 1079.17 MU for all Licensees for FY 2013-14. The details are given in Table 16.

**Table 16: Sales to HT-IV: Irrigation and Agriculture (MU) for FY 2013-14**

Sales Volume	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensees	828.6	218.05	434.69	150.47	1631.82
Approved by APERC	439.30	196.68	383.64	59.55	1079.17

#### **DETERMINATION OF SALES VOLUMES FOR RESCOS FOR FY 2013-14**

71. The method followed for fixation of sales to all LT categories for Licensees is adopted for fixation of sales to all LT categories in supply areas of Rural Electric Co-operative Societies (RESCOs) are adopted and gross sales volume for each RESCO has been fixed. These gross sales volumes are lower compared with the filings made by the Licensees. The details are given in Table 17.



**Table 17: Sales Volume to HT-VIII: RESCOs (MU) for FY 2013-14**

Sales Volume	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensees	--	259.34	734.49	320.27	1314.10
Filed by RESCOs	--	256.39	744.60	340.75	1341.74
Approved by APERC	--	239.94	686.39	287.80	1214.13

**DETERMINATION OF SALES VOLUMES FOR FY 2013-14**

72. Based on the above analysis, the Commission has determined the sales volumes for all the consumer categories and RESCOs for FY 2013-14 as indicated in Table 18.

**Table 18: APERC Approved Sales for FY 2013-14 (MU)**

Consumer Category	Licensee				All licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
LT-I: Domestic	6941.57	3680.89	2460.63	4914.58	17997.67
LT-II: Non Domestic /Commercial	2222.81	838.81	537.05	1222.15	4820.83
LT-III: Industrial	1270.23	602.62	314.08	1026.28	3213.20
LT-IV: Cottage Industries	18.67	2.29	7.06	30.27	58.29
LT-V: Agricultural	8073.90	1714.80	3955.61	4481.59	18225.90
LT-VI: Local Bodies	922.60	313.12	402.10	436.99	2074.81
LT-VII: General	79.88	43.19	31.97	55.01	210.05
LT-VIII: Temporary	1.26	0.88	0.03	1.77	3.94
HT-I: Industrial	12333.22	4558.18	1166.29	5184.89	23242.58
HT-II: Others	1804.77	561.63	100.19	530.97	2997.57
HT –III:Aviation	64.82	1.00	00	1.02	66.84
HT-IV: Irrigation and Agriculture	439.30	196.68	383.64	59.55	1079.17
HT-V: Railway Traction	163.38	604.63	438.95	641.37	1848.33
HT-VI: Townships and Colonies	108.96	34.76	130.53	49.03	323.28
HT-VII: Green Power	0.00	0.00	0.00	0.00	0.00
Rural Elec. Cooperatives	0.00	239.94	686.39	287.80	1214.13
Temporary	4.94	20.22	0.00	0.00	25.16
Total	34450.30	13413.65	10614.52	18923.27	77401.75

## CHAPTER-III

### POWER PURCHASE REQUIREMENT FOR FY 2013-14

#### INTRODUCTION

73. In this chapter, the Commission has examined the power purchase requirement filed by the Licensees in the light of the objections /suggestions raised by various persons in writing and during public hearings and determined the power purchase requirement of the licensees for FY 2013-14.

#### FILING DETAILS

#### POWER PURCHASE

74. The Licensees have, while applying the transmission and distribution losses, computed the power purchase requirement for FY 2013-14 at 103535 MU. The power purchase quantity derived in this manner (sales+losses=requirement), is the key basis for ARR filings. The power purchase requirement quantity as per filings for each Licensee is given in Table 19.

**Table 19: Power Purchase Quantity filed by Licensees in MU (Million kWh)**

	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
<b>Power Purchase Quantity</b>	45948.01	17097.14	15552.77	24937.44	<b>103535.36</b>

#### OBJECTIONS /SUGGESTIONS ON POWER PURCHASE REQUIREMENT

75. **Objections/Suggestions regarding T & D losses adopted by DISCOMs:** M/s Shiva Spinning Mills Association & others have stated that, the CPDCL losses of 13.19% and Transco losses of 4.02% for the financial year 2013-14 is not at all justifiable and therefore requested to consider the losses declared by Central Power Research Institute (CPRI) or any other Central Government statutory Authority. As per CPRI, losses should not be more than 3 %.

The additional power purchase on account of actual losses that are more than the approved losses cannot be passed on to the consumers either in the form of FSA or tariff increase in the year FY2013-14.

CPDCL has to arrest the loss of power in distribution by arresting unauthorized use of power, prompt supply of meters and replacing of bad lines and aged conductors.

The losses shown in FY 2012-13 are continued even for FY 2013-14 by the CPDCL. DISCOMs are showing reduction in distribution losses by increasing the un-metered agriculture sales. DISCOMs are not putting any effort to reduce the losses. There are 50% losses in Old City. A committee to perform field survey may be appointed by the Hon'ble Commission.

The burden on the consumers could be reduced by bringing down T&D losses and improving energy conservation. But there are no concerted attempts in this direction.

Once the loss trajectory has been approved by APERC, deviation should not be permitted by APERC.

**Licensee's Response:** Licensees have replied that they have considered the Distribution losses as approved in the revised loss trajectory in the Tariff Order 2010-11 in calculation of Power purchase requirement in the ARR filing and the Transmission losses as approved in the MYT Transmission Tariff Order 2009-10 to 2013-14.

The licensees have replied that they are undertaking several energy conservation and loss reduction activities. AP has one of the lowest T&D losses in the whole country and the licensee is taking steps to bring down these losses further. The steps taken by the licensees have led to a loss reduction by almost 50% during the past decade.

The actual losses of the licensee are more than the approved losses. The Distribution licensee has considered Agricultural sales as approved by the Hon'ble Commission for the ARR filings prior to FY 2013-14. The additional power requirement due to higher losses and additional agricultural sales will have to be purchased at a marginal cost of ₹10.00/Unit or as applicable by the licensee. The above cost has not been considered/ captured while determining the FSA due to non inclusion of cost in formula as per the existing regulation. Similarly, Regulation 4 of 2005 does not cover the mechanism to recover additional cost incurred by the Licensee. By not recognizing this huge cost by the Hon'ble Commission, Licensees are losing

around 10 times of their current Return on Equity. In the light of the above, Licensee has requested the Hon'ble Commission to devise an appropriate mechanism to recover the additional cost either through FSA or true-up mechanism.

**Commission's View:** The Commission is considering the revised losses approved in the Commission's review petition orders in R.P.No.6 of 2010 in O.P.No.17 of 2008, R.P.No.7 of 2010 in O.P.No.18 of 2008 and R.P.No.8 of 2010 in O.P.No.19 of 2008 for arriving the power purchase quantity in tariff determination. However, while determining FSA, the power purchase quantity approved in the tariff order, or actual sales (metered sales plus agricultural sales approved in tariff order) grossed up with approved losses whichever is less is considered.

The observation of the consumers regarding commercial losses are genuine and the Commission also recognises the importance of reduction of commercial losses. The DISCOMs cannot be a silent spectator towards commercial losses. As the volume of Demand (usage of power) goes up, the impact of power loss (commercial loss) in terms of cash losses would be very high. The DISCOMs are directed;

*to take stringent action to reduce commercial loss, particularly theft of energy. The DISCOMs shall prepare an action plan to curb theft of energy. The DISCOMs shall submit an action taken report on quarterly basis to the Commission.*

#### **DETERMINATION OF POWER PURCHASE REQUIREMENT FOR FY 2013-14**

76. The power purchase requirement for each Licensee is computed by grossing up the approved sales at a particular voltage with the percentage loss, as approved in the MYT Order for FY 2009-14 as amended up to date for Transmission or Distribution Network, for that voltage level to arrive at the energy input for the next higher voltage level (Annexure G). On the power purchase volumes from CGS (excluding NTPC Simhadri plant, since it is directly connected to APGRID), additional loss of 4.60 percent has been considered towards loss in PGCIL network in computing the power purchase requirement. The sales and power purchase requirement, as filed and as approved by the Commission, are given in Table 20. The details of sales are given in Annexures J<sub>1</sub> to J<sub>5</sub>.

**Table 20 : Sales and Power Purchase Requirement for FY 2013-14 (MkWh)**

Licensee	Filings by Licensees		Approved by APERC	
	Sales	Purchase	Sales	Purchase
CPDCL	38551.29	45948.01	34135.49	40498.79
EPDCL	14945.04	17097.14	13228.15	15140.19
NPDCL	12979.05	15552.77	10605.28	12655.85
SPDCL	21160.31	24937.44	18443.52	21639.60
All Licensees	<b>87635.69</b>	<b>103535.36</b>	<b>76412.44</b>	<b>89934.43</b>
<p>The approved sales of 77401.75 MU (shown in Table-18) for revenue calculation, consists of both MkWh and MkVAh units. The approved sales to arrive at power purchase quantity are 76412.44 MkWh (Shown in Table-20).</p> <p>The Commission directed the Licensees to install tri-vector meters capable of recording kVAh consumption for all 20 HP and above industrial services and for all 10 kW and above LT II services. The Commission also directed to do kVAh based energy billing for all such services provided with tri- vector meters.</p> <p>On account of reactive power drawal from the system, the kVAh units would be more than kWh units. The difference in units of 981.31 MU (i.e., 77401.75MU - 76412.44MU) are on account of kVAh based billing and due to drawal of reactive power by the consumers. At unity power factor, the kWh and kVAh units are equal, which can be achieved by installation of capacitors by the consumers.</p>				

## CHAPTER-IV ANALYSIS OF POWER PURCHASE COST

### LICENSEES' FILINGS ON AVAILABILITY OF ENERGY

77. Licensees have projected an availability of 103535.36 MU from different sources of power, including 3051.84 MU from Medium Term (MT) and 13753.27 MU from Short Term sources, for FY 2013-14. They have projected 42341.95 MU from APGENCO thermal stations, 3753.96 MU from APGENCO Hydel Stations, 14270.23 MU from CGS-SR stations, 10148.79 MU from NTPC Simhadri, 5270.19 MU from IPPs operating with Natural Gas as fuel, 1132.96 MU from Hinduja Power Plant, 6007.97 MU from new IPPs operating with RLNG as fuel.

### OBJECTIONS /SUGGESTIONS ON POWER PURCHASE COST

78. **Objections/Suggestions regarding availability of APGENCO hydel generation:** Sri M. Venugopala Rao and others have stated that, during the last one decade, generation of hydel power in the State ranged from the lowest of 2959 MU to the highest of 9566 MU per annum. Against the projected 6407 MU, the revised availability of hydel power during the current financial year is 3500 MU only, while the projected availability for 2013-14 is 3754 MU. This drastic reduction in availability of hydel power, as a result of inadequate rainfall and resultant shortage of water in the reservoirs in the State, the average fixed cost per unit of hydel power is increasing. As a result, the tariff to be paid to AP Genco for hydel power is increasing from ₹ 1.79 per unit in 2011-12 to ₹ 3.34 in 2012-13 and to ₹ 3.46 per unit in 2013-14. The projected availability of hydel power during 2013-14 may vary, depending on inflows into reservoirs in the State.

**Licensee's Response:** Hydro availability as approved for FY 12-13 was 6,407 MU but the revised estimates for hydro energy estimated for FY 12-13 is 3,547 MU. As against the approved Hydro availability for H1FY 2012-13 of 3264 MU, the actual availability was only 1336 MU. Considering the unpredictable nature of monsoon and also the fact that low reservoir levels are expected to continue for 2-3 years, the licensees have projected a realistic estimate of Hydro availability of 3754 MU for FY 2013-14. The lower availability projection has led to higher fixed cost per unit.

**Commission's View:** After taking into the consideration of APGENCO projected figures and designed energy of the stations the Commission has determined 7057 MU expecting normal monsoon against 3754 MU filed by licensees. As a result, the fixed cost per unit of generation will be lesser than the projected figure of the licensees' filing.

79. **Objections/Suggestions regarding deviation of projected CODs of APGENCO stations:** M/s Ferro Alloys Association and others have expressed that, there are deviations in the projected commissioning dates which have led to lower procurement estimates from APGENCO stations, thereby leading to higher bilateral purchases to meet the demand and consequential higher weighted average power purchase cost. Further requested the Hon'ble Commission to conduct a prudence check with regard to the commissioning dates of the new stations and accordingly the generation from new stations may be accounted for in the energy availability for FY 2013-14.

**Licensee's Response:** Based on the information obtained from the APGENCO the following plants have been assumed to be commissioned in FY 2013-14:  
Damodaram Sanjeevaiah Thermal power plant unit I (800 MW) in Sep 2013  
Damodaram Sanjeevaiah Thermal power plant unit II (800 MW) in Jan 2014  
Kakatiya Thermal Power Plant Stage II (600 MW) in Feb 2014.

**Commission's View:** Commission has critically examined the progress of construction of new plants. After taking a realistic view of the rate of progress of the projects, the Commission has considered probable date of commissioning of Damodaram Sanjeevaiah Thermal power plant unit-I (800 MW) as January 2014. The Commission has also considered that power from Damodaram Sanjeevaiah Thermal power plant unit II (800 MW) and Kakatiya Thermal Power Plant Stage II (600 MW) will not be available during tariff year 2013-14. The Commission has reckoned the power availability accordingly.

80. **Objections/Suggestions regarding 50% allocation in CGS stations located in state:** Dr. K. Narayana and others have opined that, according to the new norms the state where a unit of CGS is located will get 50% of the capacity as its share. Based on this available capacity from Simhadri- II shall be reckoned as 500MW but not 384MW.

**Licensee's Response:** The matter is being pursued at the Government level.

**Commission's View:** Allocation of energy from CGS stations comes within the purview of Gol. Licensee may continue its efforts with Gol through GoAP, for higher allocation.

81. **Objections/Suggestions regarding fixed and variable cost of Hinduja Power Plant:** Sri M.Thimma Reddy and others have expressed that, the DISCOMs have shown that they would purchase 1133 MU from Hinduja plant at a cost of ₹ 371 Crs., contending that "it has been presumed that the power plant would be commissioned in FY 2013-14." The State Government has directed the DISCOMs to enter into a "continuation agreement to the PPA of 1998 with M/s HNPCL," they have explained. When the so-called continuation agreement is still pending and the Commission's consent to the same is to be sought, the DISCOMs have considered the fixed and variable costs for Hinduja power plant "to be same as the costs for NTPC Simhadri stage II." This projection seems speculative, for, the DISCOMs have not explained whether HNPCL has agreed to the tariff on par with that of NTPC's Simhadri stage II.

**Licensee's Response:** M/s. HNPCL has sought certain support from GoAP so as to achieve scheduled commissioning of the Project commencing in July, 2013. In response, GoAP clarified to M/s. HNPCL that Government reiterates its interest in purchasing 100% power through DISCOMs from the said Project, as already contemplated in the restated PPA entered into between erstwhile APSEB and M/s. HNPCL in 1998 based on the MoU in 1992 on the broad conditions mentioned in the PPA signed in 1998, except to the extent they may stand modified due to impact of change in laws/rules and regulatory standards guiding such power projects post 1998. In this background, GoAP agrees to facilitate the implementation of power project to achieve the timeline for schedule commissioning. The Government has also decided to direct the DISCOMs as the successor entities of erstwhile APSEB to enter into a continuation agreement to the PPA of 1998 with M/s. HNPCL to this effect. As per the above decision of GoAP, DISCOMs will take further necessary action.

**Commission's View:** The commission has not considered availability of energy from M/s.HNPCL (Hinduja) during FY 2013-14, since this project is



not expected to attain Commercial date of Operation (COD) during FY 2013 - 14.

82. **Objections/Suggestions regarding basis for availability of short-term power and ITS cost:** M/s. FAPSIA and others have stated that, DISCOMs have considered ₹ 5.11 per unit for short-term purchases. They have not explained whether they have called for tenders and finalised the same. whether the competitive bidding procedure, which has been followed for short-term power purchases over and above the tariff order purchase quantities, has been vetted by the Commission or not.

**Licensee's Response:** The actual average cost of bilateral purchases during H1 FY 2012-13 was ₹ 5.11/unit. Hence, DISCOM's have considered the same price for bilateral purchases in FY 13-14 both in terms of quantum and price. Licensees are procuring short term power through Competitive bidding process through e-procurement and exchanges only.

As per the directives envisaged in Tariff Order, Licensees have been regularly submitting information on additional power procurement and deviations therein.

**Commission's View:** The DISCOMs vide Lr. No. CGM (Comml) /SE(IPC) / DE(RAC)/D.No.5004/13, Dt.26-03-2013, have submitted additional information as follows:

*"The DISCOMs have received the data relevant to short term purchase cost, through bids in the short term tenders. Even the exchange rates of short term have been phenomenally varied than the price arrived earlier. As per the said date for the short term power rates purchases have been quoted between ₹ 5.14 / unit to ₹7.98/ unit. Therefore, the Hon'ble Commission is required to factor the same in the Retail supply tariff order to be passed. Further, it is to submit that the quantum of power to be made available has been arrived at on the data of 2012-13. Therefore, the quantum of power availability has to be arrived considering the unrestricted supply besides growth in demand. The afore said information could not be submitted earlier, as those were received at a later point of time i.e., after public hearings."*

The Commission has examined the cost of short term purchases prevailing in the country, specially in southern region due to corridor constraint i.e connectivity to NEW grid, and also examined the rates at which the DISCOMs have purchased power under short term procurement during FY 2012-13.

The Commission after taking into consideration of additional data submitted, is of the view to adopt the cost of short term purchases at ₹ 6/- per unit while determining the ARR. The Commission in this order is proposing to stipulate that procurement of short term purchases shall have to be made based on the guidelines issued by the MoP of Gol on short term purchases.

83. **Objections/Suggestions regarding high cost power: M/s Shiva Spinning Mills and others** have expressed that, (i) The power purchase quantity of 43 MU proposed from others is working out to ₹ 14.65 per kWh and (ii) 6008 MU proposed from RLNG is working out to ₹ 10 per kWh which are very high cost when compare to others average cost therefore the same need not to purchase and to be excluded before finalising the tariff.

**Licensee's Response:** To meet the energy requirement of 103,535 MU, DISCOMs planned to purchase the power from M/s Srivathsa Power Projects Ltd and by utilising the idle capacities from new IPP's viz., 220 MW GVK extension, 370 MW GMR Vemagiri, 464 MW Gowthami and 444 MW Konaseema which are currently operating at around very low PLF's due to reduced RIL D-6 gas supplies. RLNG would be utilized in these idle capacities to meet the energy deficits in the state.

M/s LVS Power Ltd and M/s Srivathsa Power Projects Ltd are considered as others stations. The variable cost of the LVS Power Ltd station has been assumed as ₹ 11.33/kWh and the fixed cost payable by DISCOMS to this generator is ₹ 39 Crs. for FY 2013-14. Since the variable cost is very high for LVS, the DISCOMs have not made any power purchases from this station. DISCOMs are purchasing 43.40 MU from M/s. Srivathsa Power Projects Ltd. at a variable cost of ₹ 2.51 per kWh.

**Commission's View:** (i) The quantity of 43 MU shown as proposed purchase from "others" in the filings of the licensees is entirely to be drawn from M/s. Srivathsa Power Projects Ltd., at a fixed cost of ₹ 0.95 per unit and a variable cost of ₹ 2.51 per unit i.e., a total cost of ₹ 3.46 per unit.

The balance fixed cost ₹ 38.93 Crs., out of the ₹ 43 Crs., shown as fixed cost towards "others" in the filings of the licensees actually pertains to M/s. LVS Power Ltd., from whom no energy is proposed to be drawn due to high cost

thereof but to whom the said fixed cost has to be paid as per the order of the Hon'ble Supreme Court.

Hence, it is incorrect to state that the quantity of 43MU is working out to ₹14.65/unit. The inevitable outgo due to M/s. LVS should be treated separately and not as part of purchases from M/s. Srivathsa for the purpose of calculating the per unit cost of purchase. The issue of RLNG is dealt in detail in the next item.

84. **Objections/Suggestions regarding procurement of power from new IPPS using Regassified Liquefied Natural Gas (RLNG):** Sri K.Raghu and others have stated that, (i) The procurement of power from new IPPs using RLNG which is costly. During 2012-13, neither the DISCOMs projected purchase of power generated using RLNG, nor did the Commission permit it. Now, for the year 2013-14, the DISCOMs have arbitrarily proposed to purchase 6008 MU from the four new gas-based power projects by asking them to generate it using RLNG. This whimsical proposal of the DISCOMs ignores the abnormal additional burden that would be imposed on the consumers, if the Commission permits it, for purchasing and selling the RLNG-based power. During the current financial year, on an application made by the DISCOMs, the Commission has permitted them to purchase and supply high cost power generated with RLNG to those consumers willing to bear the total cost on no-profit, no-loss basis under its order on expensive power supply scheme. The CMD of AP Transco is reported to have told media people that power supply for seven hours a day to agriculture would be ensured by getting power generated by using RLNG. In other words, during 2012-13, no additional burden on account of purchasing RLNG-based power is proposed to be imposed on all consumers either in the form of tariff hike or through FSA; nor did the Commission permit it. Selling and purchasing high cost power is voluntary. If such high cost power is supplied to agriculture, the entire cost should be borne by the Government, following its policy of free supply of power to agriculture. The position relating to RLNG power should be the same during 2013-14, as it is during 2012-13. Therefore, the Commission should not permit the DISCOMs to purchase 6008 MU of RLNG power, as proposed by them, during 2013-14 and impose the additional burden on consumers in the form of the proposed tariff hike.

(ii) To direct the DISCOMs to use entire spare capacity available from old IPPs first for generation based on R-LNG and only then use spare capacities from new IPPs. After using entire spare capacity available from old IPPs, entire spare capacity (100% PLF) available from each of new IPPs shall be used considering least cost option, without limiting generation to PLF limit (80% PLF). Accordingly para 5(1)(o) and 5(1)(p) of Expensive Power Purchase Scheme (EPPS) approved by APERC vide its proceedings No. APERC/Secy/22/2012-13 dt: 03-01-2013 shall also be amended. DISCOMs have not stated how they propose to procure R-LNG from international market. This may please be clarified.

**Licensee's Response:** (i) Due to the severe power crisis in the State and based on the request of willing consumers for purchase of expensive power, Hon'ble Commission permitted DISCOMs to supply high cost power generated with RLNG to supply to the willing consumer on no-profit, no-loss basis. However, the response of the consumer is only to an extent of 54 MW by about 400 consumers. GoAP have sanctioned ₹300 crs to purchase RLNG for one month period to supply to the Rabi season demand. DISCOMs requested M/s GAIL to implement the RLNG supplies to IPPs. The RLNG supplies are expected to commence from 18.02.2013 and about 400 MW (10 MU/day) additional power is expected to be available with RLNG. After generation with RLNG, the applicable expensive power rate would be applied to the willing consumers without burdening common consumer.

(ii) While dispatching the energy schedule, DISCOMs will consider all these options and schedule the IPP's optimally. They would do a detailed cost benefit analysis of the usage of R-LNG for the new as well as the old IPP's by considering the parameters of fixed cost/unit, difference in SHR etc. Payment to the new IPP's for the production of power from RLNG is only based on the actual generation and not based on normative generation. So, DISCOMs have not considered any payment to be done for the idle capacity of the IPP's.

**Commission's View:** The proposals of DISCOMs for Generating power using RLNG through existing gas based IPPs have been examined in detail in the light of the following:

- Availability of power from approved stations i.e. APGENCO (Thermal), CGS stations and Non Conventional Energy Sources (NCEs)

- Lesser availability of power from IPPs as compared to the projection of the licensees, in view of the letter received in March, 2012 from MoP of Gol, regarding potential reduction in availability of natural gas, from D-6 (Reliance) of KG basin.
- Lesser availability of power based on tenders called for and received by DISCOMs under Medium and Short-term Procurements.
- Wide gap between demand and supply at present even after enforcement of R & C measures.
- Depletion of water levels in the main reservoirs affecting hydel generation during the summer of 2013.

The State has been suffering from acute shortage of power since September, 2011. The demand supply gap is gradually increasing and the position may become even more difficult in the ensuing summer months (April to July 2013). In order to maintain the stability of grid, imposition of further restrictions on supply to industry and other categories may become necessary. To avoid the above situation, the Commission is of the view that generation of power using RLNG through the existing gas based IPPs is absolutely necessary, during the period of 4 months starting from April 2013 to July' 2013.

The Commission will examine the need to relax the R & C measures in force, depending upon the demand and supply conditions, to certain extent to the industrial consumers.

DISCOMs shall stop purchase of power from the gas based IPPS using RLNG, if the generation at major hydel stations improves considerably.

85. **Objections/Suggestions regarding loss due to sale of IPPS power in market:** Sri G. Malyadri & others has questioned that, how much millions of Units have the DISCOMs lost due to permitting the IPPs in 2008 to sell their power from expansions of their units?

**Licensee's Response:** The Hon'ble Commission has cancelled the PPAs with IPPs to sell 80% of power to state utilities and 20% at open market vide order dated 05-12-2009. Hence no further examination is required as the entire power is supplied to DISCOMs.

**Commission's View:** Vide its order dated 05-12-2009 the Commission has rejected the proposal to permit the four IPPs to sell 20% of their power in the

open market. Hence, the question of loss of generated power of the four IPPs does not arise.

86. **Objections/Suggestions regarding selling Penna Cements Power in market:** Sri Bonthala Chandra Reddy & others have expressed that, DISCOMs have entered PPA with Penna cements for 60 MW of power from March, 2010. Penna cements is allowed to sell power to market. Is it not true that when the capacity is 90 MW only they can sell their power to market? This may be rectified.

**Licensee's Response:** Not furnished.

**Commission's View:** DISCOMs are directed to look into the issue in detail and submit a report to the Commission by 30<sup>th</sup> June, 2013.

87. **Objections/Suggestions regarding requirement of power in Telangana:** Sri T. Harish Rao, M.L.A, has stated that, the Generation cost of RTPP is ₹ 5.12 per unit, whereas at RTS the rate is ₹ 2.80 per unit. The requirement of power is in Telangana (i.e. Telangana is load centre), coal is in Telangana and the project is located at RTPP which is in Seemandhra. The cost of losses including line loss is ₹ 2500 Crs., who will bear the cost.

The Govt. has sanctioned three power plants recently. One at VTPS, one at Krishnapatnam and another at KTS. The KTS plant will not materialise since it require forest clearance. Instead of KTS this can be re located at RTS where land and water are available. The plants proposed at Shankarpally RR dist, Nedurupally, Karimnagar not approved by Govt. so far. No justification is done to Telangana.

**Licensees' Response:** Not furnished.

**Commission's View:** Establishment of new power plants by GENCO comes in the purview of GoAP.

88. **Objections/Suggestions regarding shankarapally project:** Sri M. Kodanda Reddy has opined that, Shankarapally power plant shall be taken up exclusively for Hyderabad city to avoid power cuts in Ranga Reddy District.

**Licensees' Response:** Not furnished.

**Commission's View:** setting up new power plants for exclusive usage does not come within the purview of the Commission.

89. **Objections/Suggestions regarding additional generation from APGENCO during 1996-2012:** Sri G. Malyadri has asked for the details of additional generation achieved in APGENCO during 1996-2004 and 2004-2012 and the budget allocations.

**Licensees' Response:** This is not in the purview of the licensee.

**Commission's View:** The objector may approach APGENCO for such information.

90. **Objections/Suggestions regarding Financial Support to APGENCO:** Sri Gali. Muddu Krishnama Naidu and others have stated that, APGENCO may be supported with the financial arrears of ₹ 5700 Crs.

**Licensee's Response:** Not furnished.

**Commission's View:** The matter is not under the purview of the Commission.

#### **ESTIMATION OF AVAILABILITY OF POWER FROM DIFFERENT SOURCES**

91. The station wise energy availability from different sources for FY 2013-14 has been examined by the Commission in the light of the objections received. The Commission, after careful consideration of the energy required to be procured from different sources for FY 2013-14, has pegged the same at 89934.43 MU including purchases of 10094.66 MU from market sources, as against a quantum of 103535.36 MU filed by the Licensees. The Commission estimated the availability of Hydel energy at 7056.61 MU based on APGENCO's projected quantity as per design energy, as against 3753.96 MU filed by Licensees. The Commission has examined the availability of gas from KG basin based on Ministry of Power, Government of India letter dated 14<sup>th</sup> March, 2012 and actual energy availability trend from gas stations in the current year. Accordingly, the availability from such IPPs have been estimated at 3858.87 MU as against 5270.19 MU filed by the Licensees.
92. The Commission further examined the construction / commissioning status of all new stations and their expected Commercial Operation Date (COD), and

estimated the availability of energy from these new APGENCO stations as given below:

- a. Damodar Sanjeevaiah Thermal Power Project (DSTPP), Krishnapatnam Unit-I (800 MW) is expected to attain Commercial Operation (COD) during January, 2014, instead of September, 2013 filed by the Licensees, and Unit-II (800 MW), is expected to attain Commercial Operation (COD) during June, 2014 instead of January, 2014 filed by the DISCOMs.
  - b. Kakatiya Thermal Power Project (KTPP) Stage II (600 MW) is not expected to be commissioned during FY 2013-14.
  - c. Lower Jurala Hydel Project(240 MW): Unit-I(40 MW) is expected to be commissioned in the month of July, 2013, whereas Unit-II(40 MW) and Unit-III(40 MW) are scheduled to be commissioned at an interval of 4 months after Unit-I is commissioned.
  - d. The Commission estimated the energy availability from DSTPP for this year at 1373.52 MU and from Lower Jurala Project at 113.14 MU.
93. Estimated purchases from Medium Term and Short Term sources proposed by the licensees were considered as purchases from Market Sources over and above the availability of energy estimated from all approved stations considered under Merit Order Dispatch.
94. DISCOMs have proposed to procure 6007.97 MU from four new IPPs using RLNG as fuel.
95. The proposals of DISCOMs for Generating power using RLNG through existing gas based IPPs has been examined in detail in the light of the following:
- i. availability of power from approved stations i.e. APGENCO (Thermal and Hydel power), CGS stations and Non Conventional Energy Sources ( NCEs).
  - ii. availability of power from IPPs in view of gradual reduction in supply of natural gas from the D-6 (Reliance ) of KG basin. And in view of the letter received from MoP of Gol.
  - iii. availability of power based on the tenders called for and received by DISCOMs under Medium and Short term Procurements.
  - iv. gap between demand and supply existing at present even after enforcement of R & C measures.
96. Commission also observed that generation from Hydro Electric Power Stations has been reducing drastically during summer season and the demand supply



gap is expected to further increase which may necessitate the imposition of further restriction of supply to industry and other categories of consumers. To avoid the above situation, the Commission decided that generation of power using RLNG through existing gas based IPPs is absolutely necessary during the period starting from April, 2013 to July, 2013. There is an addition of 2431 MU from this source. The Commission directs the DISCOMs;

*to stop procurement of power from the gas based IPPS using RLNG as and when the generation from major hydel stations picks up and/or a cheaper source of power from market sources becomes available.*

97. Commission also noted that there is a need to relax the R & C measures in force, to certain extent to industrial consumers, depending upon the demand and supply conditions.
98. Commission has not considered availability of energy to the tune of 1132.96 MU from M/s HNPCL (Hinduja) during FY 2013-14, since this project is not expected to attain Commercial date of Operation (COD) during FY 2013-14. In case it attains COD during the year 2013-14 and PPA is consented, the power availability from this project will enable reduction in purchases from comparatively costlier market sources.
99. Keeping in view the total energy requirement of 89934.43 MU and availability of 79839.77 MU inclusive of 2431.21 MU from RLNG based IPPs, the Commission has allowed purchase of 10094.66 MU from market sources which includes both medium term and short term sources. Such purchases shall be made within the maximum ceiling rates prescribed in this order for such purchases and the short term purchases shall be made subject to short term procurement guidelines issued by MoP, Gol.
100. The details of energy availability from various generating sources are given in Table 21.

**Table 21 : Source-wise Availability for FY 2013-14(MU)**

Sources of Energy	Filings by Licensees (MU)	Approved by APERC (MU)
<b>APGENCO</b>		
a) Thermal stations	42341.95	35958.21
b) Hydel stations	3753.96	7056.61
CGS-SR	14270.23	16044.54
NTPC-Simhadri	10148.79	10695.00
APGPCL	287.56	278.70

Sources of Energy	Filings by Licensees (MU)	Approved by APERC (MU)
IPPs	5270.19	3858.87
<b>OTHERS</b>		
a) Non-Conventional	3473.23	3473.23
b) Mini Power plants	43.40	43.40
c) Hinduja	1132.96	0.00
d) Medium term	3051.84	0.00
e) RLNG based IPPS	6007.97	2431.21
f) Market sources	13753.27	10094.66
<b>TOTAL</b>	<b>103535.36</b>	<b>89934.43</b>

101. Station wise break-up of availability from different sources as filed by the Licensees and as approved by the Commission are given in Annexures F<sub>1</sub> & F<sub>2</sub> respectively.

#### POWER PURCHASE COST

102. Licensees have filed power purchase cost of ₹ 42138.40 Crs. for the energy requirement of 103535.36 MU at an average power purchase cost of ₹4.07/kWh. The average power purchase cost as per the filing in respect of APGENCO thermal stations has been projected at ₹ 3.81/kWh, from gas-based IPPs at ₹ 3.24/kWh, from RLNG based IPPS at ₹ 10.00 and from CGS-SR stations at ₹ 2.61/kWh.
103. **Objections/Suggestions regarding APGENCO tariffs:** M/s Ferro Alloys Association has expressed that, the Order on Generation tariffs based on the Generation Regulation is yet to be passed by the Commission and hence basis of determination of fixed costs is not available. Also, details with regard to basis for the estimation of fixed costs by APGENCO are not provided in the tariff filings by the licensees and hence this needs detailed examination.

**Licensee's Response:** The fixed costs for existing stations FY 14 have been considered as per the projections of APGENCO for FY 2013-14. During the year 2012-13 APERC has approved the fixed cost of APGENCO based on the information provided by APGENCO in its application for determination of Generation tariffs and updates on subsequent information in accordance with Regulation 1 of 2008.

**Commission's View:** Disposal of O.Ps regarding determination of generation tariffs of APGENCO stations will be done during this financial year. Pending the same, the fixed cost of APGENCO Power Stations for FY 2013-14 is being

provisionally determined based on the filings of the licensees subject to corrections to be carried out upon the disposal of the respective O.Ps.

104. **Objections/Suggestions regarding fixed cost of APGENCO stations: Sri B.Karunakar Reddy and others** have stated that, the fixed costs of VTPS-IV, RTPP-II, RTPP-III, KTPS- VI, Kakatiya- I, Damodaram Sanjeevaiah-I and Simhadri-II of NTPC are 40-120% more than the fixed cost of Ultra Mega power plant at Mundra in Gujarat set up by Tatas.

**Licensees' Response:** Hon'ble CERC has issued bench marking capital costs as on Feb 2011 after examining all cost elements in power projects. APGenco projects are within the bench marking capital costs issued by CERC. The fixed costs for APGENCO projects are computed as per APERC regulations on cost plus basis. Whereas the UMPP Mundra project was selected under competitive bidding. As UMP Projects have deemed export benefits and are exempted from Customs duty and other taxes, the fixed cost of UMP Projects are less when compared to normal Projects. However the UMP projects have foreign exchange variation risk. The APGENCO Projects tariff is for a specific year and UMPP Mundra tariff is levelised tariff. Hence both projects are of different nature and cannot be compared. U MPP Mundra already urged Ministry of Power for tariff hike since the project is unviable with the tariff quoted.

**Commission's View:** The Objectors view will be examined under regulation 1 of 2008, by the Commission at the time of determination of tariff, for the APGENCO stations of VTPS-IV, RTPP-II, RTPP-III, KTPS- VI, Kakatiya-I and Damodaram Sanjeevaiah-I. Regarding determination of tariff of Simhadri-II, it is under the purview of CERC.

105. **Objections/Suggestions regarding CAG report on expenditure in RTPP-II, VTPS-IV and Kakatiya-I Plants: Sri M. Thimma Reddy and others** have stated that, in CAG report in the year 2010, excess spending in VTPS-IV was ₹ 350 Crs., in RTPP - II it was ₹ 308 Crs. (18.78%) and in the case of Kakatiya - I it was ₹ 555.48 Crs. (26.74%) . There was delay of 8 to 15 months in operationalising of these plants. But DISCOMs did not bother to recover liquidated damages from the contractor. And requested the commission to see that this additional expenditure is not allowed and see that fixed cost burden is reduced.

**Licensee's Response:** APGENCO projects are planned in early 2000 and DPRs are prepared at that time. But the implementation has taken place in last 4 years partly on account of restructuring of APSEB also. The capital costs are to be compared with bench marking capital costs notified by CERC in their draft notification dated 17.9.2010. APGENCO is fixing project completion targets i.e. 36 months on best effort basis, whereas CERC regulations provides for 44 months. There is no much cost implications since the orders for BTG and BOP are on firm price basis.

**Commission's View:** The CAG report will be kept in view at the time of determination of tariff for RTPP-II, VTPS-IV and Kakatiya-I of APGENCO Stations i.e., while disposing the O.P.No. 15 of 2009 filed by APGENCO.

106. **Objections/Suggestions regarding fixed cost of multi-purpose hydel plants:** Sri V. Venkataramaiah and others have expressed that, some mini hydel plants are multi-purpose plants and it is apparent that the costs to be borne by the irrigation and drinking water departments have been shifted to the energy department.

The Srisailem left bank power house has become a curse on the people of the state. Every year more than ₹ 500 Crs. is being allocated as fixed cost for this plant. A mechanism shall be evolved to insulate the electricity consumers from this burden.

**Licensee's Response:** The cost per kWh depends upon hydrological conditions when there is a good hydrology the cost per kWh will come down and vice versa. In recent years there is poor hydrology due to failure of monsoons resulted higher cost. DISCOMs estimated hydel generation conservatively based on 2012-13 generation. Hence the cost per kWh is on higher side.

**Commission's View:** While disposing the OP No. 15 of 2009 FILED BY APGENCO the cost of generation of the hydel stations covered by the O.P, will be determined.

While determining the tariff for Hydro stations based on water from multi-purpose reservoirs, the proportionate cost of such reservoirs is considered along with the cost of Hydro Station.

While determining the Tariff for Srisailem left bank power house, the power plant cost is only considered. This plant is meant for pumped storage. The power is generated during the peak hours to avoid procuring costly power, and pump the water back to the reservoir during the off-peak hours utilising the surplus power available during off-peak hours.

107. **Objections/Suggestions regarding fixed cost of LVS: Sri B. Ganga Rao and others** have stated that, regarding LVS almost same fixed cost is being paid from the beginning. In fact the fixed cost shall decline every year because of depreciation. Usually all fixed cost will be recovered within 10 years and after that it will become negligible. But in the present case it is constant. According to the filings the fixed cost payable to this 36.8 MW plant during FY 2013 is ₹ 38 Crs. and during FY 2014 it is ₹ 39 Crs. Compared to this Srivathsa Power Project is being paid ₹ 4.027 Crs. during FY 2013 and ₹ 4.073 Crs. during FY 2014 for its 17.2 MW plant.

**Licensee's Response:** The licensees have considered the fixed costs as per the projections made by the company and as per PPA provisions.

**Commission's View:** The Fixed cost of the LVS plant is being allowed as per the order of the Hon'ble Supreme Court.

108. **Objections/Suggestions regarding escalation on variable cost: Sri D.V.Krishna and others** have stated that, the 10% escalation on variable cost of APGENCO Thermal plants for FY 2013-14 over actual variable cost during H1 2012-13 is unprecedented and the same shall not be accepted. DISCOMs have stated that the variable costs for APGENCO Thermal plants for FY 2013-14 have been considered at 10% escalation over actual variable costs during H1 2012-13. Increasing dependence on imported coal to bridge fuel shortfall is considered as the main reason for escalation in costs. However it is learnt that in the recent bidding conducted by APGENCO for imported coal, the rate quoted by the L1 bidder is around ₹ 4500/MT compared to ₹ 5600/MT for the current year. And requested the commission to take into account this, while finalizing the variable cost to be adopted for APGENCO thermal stations.

**Licensee's Response:** Until FY 2012-13, the licensee had considered the actual costs incurred during the first half of the preceding year without any escalations. But, in actual the variable cost was higher than the costs estimated during the filings. This resulted in passing on the additional cost

through FSA. The licensees intend to minimize FSA in the coming years. Hence, realistic projections of variable costs of APGENCO and CGS Thermal stations has been considered by taking into account the quantum of imported coal that is expected to be used in these stations. Based on the past experience to bring realistic cost 10% escalation was estimates during 2013-14 when compared with 2012-13 first Half year. It will help in minimizing FCA or negative FCA in case of escalation is less than 10%. However the billing will be only on actuals.

**Commission's View:** The Commission is not allowing the escalation sought by the licensees.

109. **Objections/Suggestions regarding variable costs of new APGENCO plants:** Sri Japapu Ram Reddy and others have stated that, the GENCO's thermal plants located at the same place are going to pay different coal prices. While KTPs D unit' variable cost stands at ₹ 1.52 per unit it is going to be ₹ 2.53 in the case of VIth unit. Similarly, in the case of VTPS while first three units' variable cost stands at ₹ 2.73 per unit that of fourth unit's variable cost is going to be ₹ 3.44 per unit. Attempts shall be made to bring down variable cost of new units.

**Licensee's Response:** APGENCO is using indigenous coal from M/s MCL at Dr NTTPS. The average cost of coal per MT is ₹ 2920 where as mix of MCL coal and washed coal is being used at Dr NTTPS Stage IV as Stage IV Boiler is designed for coal with GCV of 4050 kcal/kWh. Some times APGENCO is forced to blend imported coal also to meet the shortfall of coal arised due to short supplies from M/s MCL based on MoP directions. The average cost of coal per MT is Rs 4700. Hence there is a variation in the variable cost between Dr NTTPS and DR NTTPS IV. Similarly for KTPS VI APGENCO is using imported coal and e-auction coal since supplies from M/s MCL yet to start. Therefore the landed cost per MT for KTPS VI is ₹ 3620 per MT against ₹ 1570 Per MT of KTPS V. Since Boilers are designed for indigenous coal, the specific consumption of coal is not coming down despite using higher calorific value of imported coal with higher prices, though very competitive compared with other generating utilities like NTPC etc.

**Commission's View:** The reply furnished by the DISCOMs is found to be satisfactory.

110. **Objections/Suggestions regarding cost of power from VTPS-IV: M/s Andhra Pradesh Spinning Mills Association** has expressed that, the cost of purchases from NTPC (SR) is ₹ 2.23 for 2012-13 and ₹ 2.24 for 2013-14. Whereas VTPS stage IV, a more recent and modern plant the cost incurred is estimated at ₹ 4.88/unit. This may be compared with cost per unit is ₹ 3.31 in VTPS I, II, and III.

**Licensee's Response:** The annual fixed costs for all APGENCO existing stations have been considered as per the projections of APGENCO for FY 2013-14. The variable costs of APGENCO stations for FY 2013-14 have been considered at 10% escalation over actual variable costs during H1 of 2012-13.

**Commission's View:** The fixed cost of later erected power stations is always likely to be higher than that of the earlier stations due to escalation in prices of machinery etc. As regards variable costs, the imported coal component of VTPS stage IV is also a factor. In any case, the fixed cost being taken now is subject to correction as and when the generation tariff of this plant is determined by the Commission.

111. **Objections/Suggestions cost of power purchase from CGS stations: M/s. Ferro Alloys Producers Association and others** have expressed that, the power procurement cost based on escalation in the variable costs over and above the actual variable cost is not in line with the Regulations. Generation cost from central stations is governed by CERC Tariff Regulations and should be considered accordingly. Variable costs may not be considered on the presumptive basis of the licensees and may be based on actual. Any variation in fuel price is adjusted through FSA mechanism.

**Licensee's Response:** The tariff proposals submitted by the Licensee have taken a realistic escalation of 10% in the increase in power purchase cost from the CGS stations considering the overall inflation scenario in the country. By considering a realistic estimate of the power purchase cost, the licensee envisages Zero or Minimal FSA for FY 2013-14. Incorporating the cost in the proposed tariff has an advantage of informing a consumer well in advance about his energy expenses.

**Commission's View:** The Commission is not allowing the escalation sought by the Licensees.

112. **Objections/Suggestions regarding projection of PP cost: Sri M. Venugopala Rao and others** have opined that, for the year 2012-13, against the availability of 93,913 MU projected by the DISCOMs, the Commission permitted 90,402 MU only. As per the estimates revised by the DISCOMs, availability during 2012-13 would come down to 82,924 MU only, leaving a reduction of 7478 MU. As a result, the cost of power purchase should come down. However, the DISCOMs have revised the cost of power purchase to ₹30259 Crs. for 82,924 MU against the cost of ₹ 28024 Crs. permitted by the Commission for purchasing 90,402 MU. Even while claiming hefty fuel surcharge adjustment (FSA) amounts for the first two quarters, and probably for the last two quarters, too, of the current financial year, they have increased the cost of power purchase by ₹ 2235 Crs. for purchasing the quantum of power reduced by 7478 MU. On the basis of projected availability, as determined by the Commission in its tariff order, the DISCOMs got the consent of the Commission for tariff hikes and subsidy of the Government for a quantum of 7478 MU which is neither purchased, nor sold, by the DISCOMs. Similar elements of speculation in the projections of the DISCOMs for the year 2013-14 cannot be ruled out.

**Licensee's Response:** The following reasons have contributed to an increase in the Power Purchase cost for FY 2012-13 as against the approved values. Hydro availability as approved for FY 2012-13 was 6,407 MU but the actual hydro energy estimated for FY 2012-13 is 3547 MU. Due to reduction in hydro energy availability, DISCOM's had to purchase the same from expensive sources of power. The bilateral power purchase price as approved was ₹ 4.17/kWh, but the actual price at which short term power was purchased was around ₹ 5.11/kWh. Quantum of power purchased from bilateral sources has been projected at 12,756 MU against the approved value of 12449 MU. The approved average power purchase cost from AGENCO stations for FY 2012-13 was ₹ 3.02/Unit while the projected average power purchase cost from APGENCO stations has been revised to ₹ 3.72/Unit costs. Revenue loss to the licensees due to the reduction in sales has also increased the revenue deficit. Unlike last year, the power purchase cost projections have factored in an escalation of 10% on the actual cost incurred for the first half of FY 2012-13 which are expected to be much more realistic projections.

**Commission's View:** The sales quantity and power purchase (PP) quantity approved in the tariff order for FY 2012-13 are based on estimated quantities.



The Power purchase cost arrived in the above mentioned tariff order is based on the previous years' purchase cost. The actuals may differ from the estimated quantities and PP cost, based on several un-controllable factors such as non-availability of projected Hydro generation, reduction of gas in KG basin, procurement of imported coal to meet the shortage in domestic coal and market fluctuations. The variation in power purchase cost will be passed on to the end users in the form of FSA as per regulation 1 of 2003. The Commission will determine the tariff for the year 2013-14 taking all known factors into consideration. However, the actuals are bound to differ.

113. **Objections/Suggestions regarding public hearing to fix the costs of gas based plants:** Sri M. Venugopal Rao, Sri M. Sridhar Reddy and others have expressed that, public hearing shall be done for fixation of costs to gas based plants also and also requested to encourage the non-conventional energy projects.

**Licensees' Response:** Not furnished.

**Commission's View:** (i) The old gas based IPPs i.e GVK, Spectrum, Lanco and BSES , the PPAs have been entered into by erstwhile APSEB. After unbundling of APSEB, the PPAs have been transferred to the successor entities of APSEB i.e at present DISCOMs.

(ii) For the new gas based IPPs such as GVK extension, Konaseema, Vemagiri and Gouthami the Commission consented the PPAs on 12-4-2003 after conducting public hearing.

(iii) The Electricity Act, 2003 provides for encouragement of power purchase from renewable sources. Accordingly, the Commission has fixed 5 percent of total energy requirement to be purchased by the Licensees and other users from such sources under the RPPO Regulation 1 of 2012.

#### **ELEMENT OF "OTHER COST" IN POWER PURCHASE COST**

114. **Objections/Suggestions regarding element of "Other Cost" in Power Purchase Cost:** M/s Shiva Spinning Mills has expressed that, ₹ 271 Crs. claimed as other cost to be excluded. Out of the 10 generating stations only 3 generating stations are claiming the other cost and 7 generating stations are not claiming the other cost why? Out of ₹ 271 Crs., ₹ 238 Crs. claimed by AP Genco, ₹ 24 Crs. claimed by IPPs and ₹ 9 Crs. claimed by others. And

requested to exclude the same before finalising the tariff as the same is not justifiable. Also requested for furnishing the details of total quantity of fuel to be purchased, total proposed fuel cost to be paid, total spares cost proposed, O &M Cost and finance cost for each station.

**Licensee's Response:** As per the RST formats, the cost components for power purchase cost consist of fixed cost, variable cost, incentive, Income Tax and other cost, if any. The DISCOMs have not claimed any amount under the item, "other cost" for FY 2013-14 in the said format.

**Commission's View:** As per the RST form 1.4 Power Purchase & Procurement cost (for regulated Business), the costs for power purchase consist of fixed cost, variable cost, incentive, Income Tax and other cost only. The DISCOMs have not claimed the other cost for the FY 2013-14 in the said format. While determining the power purchase cost, the Commission will not consider the item "other costs" except fixed, variable, incentives & Income Tax cost.

115. **Objections/Suggestions regarding purchasing power from M/s. GMR and Lanco:** Sri T. Harish Rao, M.L.A, and others have stated that, DISCOMs are purchasing power at ₹ 2.80 per unit from gas based plants in AP and purchasing power at higher rates from market than prescribed by the APERC. Due to purchasing the power from GMR and LANCO at ₹ 5.60 and ₹ 5.70 per unit, consumers are burdening thousands of Crs. of rupees of FSA. CEA has also written a letter regarding these purchases. Action may be taken against the responsible persons and recovery of the excess payments on the purchases may be done. ? What do the DISCOMs propose to recover the excess amount running into hundreds of Crs. of Rupees paid to these projects against the price of about ₹3.10 per unit at which other gas-based projects, including Lanco and Vemagiri of the GMR group, are supplying under PPAs?

**Licensees' Response:** MOP&NG, GOI during 2009 has been allocated RIL D-6 gas to M/s GMR barge and M/s Lanco stage II as per the then policy of EGOM to allocate Natural Gas to projects ready to generate power with estimated KG D-6 production of 80 MMSCMD by 2011. Lanco Stage-II was recommended by the then Energy Minister, GoAP for allocation of gas. The aforesaid merchant plants were commissioned in 2010. Since then supplying part of the capacity to DISCOMs intermittently under short term contract. Currently these two projects are supplying power to DISCOMs to the extent of gas availability under short term contract. In view of the scarcity of the domestic

gas, during May 2011 MOP&NG, Gol decided that the current and future allocations of domestic gas will be subject to the condition that “the entire electricity produced from its gas shall be sold under long term PPAs to the grid/ Distribution companies at regulated Tariffs approved by the regulator”. During December 2011, both M/s GMR Barge and M/s Lanco Stage-II have agreed before MoP, Gol to participate in the medium term bidding to enable to continue their domestic gas allocation. During March 2012, MOP, GOI communicated the EGoM decision to not to suspended the RIL D-6 gas allocation to these two projects till 30.05.2012. Further, it was stated that after the said period the supply would be suspended if they fail to comply with the condition that the entire electricity produced from the allocated gas shall only be sold to the Distribution Licensees at tariffs determined or adopted (in case of bidding) by the tariff regulator of the power plant. The PPA should be for medium term or long term. As per the stipulation of MOP, GOI, the aforesaid projects are required to supply entire power to DISCOMs either by entering long term PPAs at tariffs determined by APERC or at tariff adopted by APERC arrived through bidding process. Pending finalization of medium term bidding, the aforesaid projects were selected in short term bidding for the period from 01.06.2012 to 30.05.2013. The Lols were issued with a condition that, the tariff for these two projects would be determined by APERC in line with the Gol directive. M/s GMR barge and M/s Lanco have participated in case-I medium term bidding initiated by APCPDCL during December’2011. During the finalisation of bids, during July’ 2012, the offer of M/s GMR bid was disqualified, being conditional, where as M/s Lanco bid was not accepted as they had quoted high rate of Rs 6.898/unit (L14) as against the L1 rate of ₹4.29/unit. As per the directions of GOAP, DISCOMs during November’ 2012 requested these two projects to enter long term PPA in line with initialed PPAs of M/s Silkroad, M/s RVK and M/s Sriba, who have got similar EGoM allocation. However, both M/s GMR Barge and M/s Lanco Stage-II did not accept the draft PPAs communicated by DISCOMs and desired to enter long term PPAs as per Regulation 1 of 2008. In response DISCOMs informed M/s GMR Barge and M/s Lanco Stage-II that the DISCOMs are not in a position to enter into long term PPA based on Regulations 1 of 2008. DISCOMS informed to GOAP that DISCOMs have decided to enter long term PPAs with M/s.GMR Barge & M/s. Lanco Stage-II at the tariff i.e., fixed cost around ₹ 1.00 per unit as is being paid to existing new IPPs together with variable cost being pass through at the rate as is being determined by EGOM, GOI time to time. It was also informed that no negotiations in this regard will be done by

DISCOMs with M/s GMR Barge and M/s Lanco Stage-II. MOP&NG, GOI vide letter dt. 01.01.2013 communicated the guidelines on clubbing/diversion of gas between power plants, applicable to power plants of common ownership. As per the above guidelines both M/s GMR barge and M/s Lanco stage II were requested vide letters dt. 24.01.2013 to communicate their concurrence for diversion of gas from for diversion of natural gas from Lanco stage II (supplying power under short term) to Lanco stage I (supplying power under long term) and GMR barge (supplying power under short term) to GMR Vemagiri (supplying power under long term). However, both the plants have not accepted DISCOMs proposal for clubbing of gas. Several letters were addressed to APERC for fixation of Tariff to these two projects in view of the allocation of domestic gas by EGOM, GOI. So far APERC has not fixed the Tariff. DISCOMs have made all the possible efforts to fulfil the directive of GOI for continuation of KG D-6 gas to Lanco Stage II and GMR Barge. However, the aforesaid projects have not accepted to any of the proposals made by DISCOMs i.e; (i) Medium term bidding (ii) Long term PPA and (iii) Clubbing/diversion of Gas. In light of the above, notices were issued to GMR Barge & Lanco Stage-II to restrict the short term power purchase rate for these two projects on par with long term PPAs of New IPPs (M/s Gautami, M/s Konaseema & M/s Vemagiri) with immediate effect. Further it was also informed that pending tariff determination by APERC to these two projects, to recover the differential amount (Unit rate paid under short term - Unit rate paid to New IPP under long term so far paid for the power supplied under short term. After fixation of Tariff by APERC, necessary truing up would be made. After Truing up, if any benefit accrued to DISCOMs would be passed on to the consumers. GoAP was requested by DISCOMs to recommend for diversion of RIL D-6 gas of GMR Barge and Lanco Stage-II to the AP IPPs which are supplying power to DISCOMs under long term PPAs. The aforesaid projects have approached Hon'ble AP High Court against the notices issued by DISCOMs. The matter came-up for hearing on 12.02.2013. Hon'ble AP High Court directed DISCOMs to file counter Affidavit by 18.02.2013.

**Commission's View:** The determination of tariff to GMR-Barge Mounted and Lanco Kondapalli Stage-II does not fall under the purview of either section 62(1) or section 63 of Electricity Act, 2003. After 09-01-2011, the question of determination of tariff by the Commission for sale of electricity by a specific generator to a distribution company on cost plus basis does not arise for short term purchases. The purchases have to be made by the DISCOMs following the

guidelines of case-I/case-II bidding after 09-01-2011 except short term purchases, which have to be made as per the guidelines for short-term purchases. As far as the short-term purchases are concerned, the role of the Commission is restricted to fixation of maximum ceiling rates of purchase of power by the DISCOMs. The Commission, for the tariff year in question, has fixed ₹ 5.50 per kWh as the maximum ceiling rate for short-term purchases. There is no provision in the Electricity Act, 2003 which lays down the procedure for fixation of purchase price by the Commission in individual cases of purchase of electricity by the DISCOMs from specific generators in case of short-term purchases. The purchase prices for short-term purchases are to be decided by the DISCOMs themselves as per the guidelines governing such purchases, within the maximum ceiling prescribed by the Commission from year to year.

116. **Objections/Suggestions monitoring the cost of imported coal procured by APGENCO and NTPC:** Sri Janak Prasad, Sri. T. Harish Rao, M.L.A, Sri D.V.A.S.Ravi Prasad, Dr. K.Narayana and others have stated that, the Commission shall examine whether APGenco and NTPC followed international competitive bidding to ensure participation of producers of coal, since coal is being imported from other countries, or simply confined the bidding to a few selective companies or traders who are not producers of coal but middlemen trading in coal. Presently procurement of imported coal is done through limited bidding route by APGenco from selected public sector undertakings. It is understood that several imported coal suppliers are willing to supply coal at much lower rate than the present procurement price of APGenco for imported coal. Considering huge financial implications of cost of imported coal on DISCOMs power purchase costs, the Commission is requested to direct APGenco to adopt open competitive bidding process for procuring imported coal.

**Licensee's Response:** Not furnished.

**Commission's View:** The DISCOMs are directed to verify whether APGENCO is procuring imported coal through competitive bidding process, or under any guidelines issued in this regard by Gol, before admitting the Station wise power purchase bills claimed by APGENCO. Regarding NTPC Stations, DISCOMs have to take-up the pricing issue of imported coal, if any, with CERC.

117. **Objections/Suggestions regarding regulating the coal price:** Sri M.Thimma Reddy and others have expressed that, Units supplying power to the state receive coal from Mahanadi Coal Fields, Coal India Limited and Singareni Collieries. Recently Mahanadi Coal Fields and Coal India Limited increased prices for coal supplied by them. It ranged from 20% to 54%. Even before this price hike Mahanadi Coal Fields net profit was ₹ 2,600 Crs. in 2010-11. In the case of Coal India Limited profits increased by 64% during first quarter of 2011-12 and net profits increased to ₹ 4,143.92 Crs.. During the second quarter of 2012-13 CIL profits reached ₹ 3,078 Crs.. During the same period in the financial year 2011-12 these profits stood at ₹ 2,593 Crs.. Here it is to be noted that while coal output increased by 11 percent profits increased by 19 percent. Singareni Collieries is also earning profits every year in the range of ₹ 150 Crs. to ₹ 300 Crs.. In the year 2009-10 Singareni Collieries paid ₹ 17.71 Crs. as dividend to GoAP for its 51% share in the company. Similarly in the year 2010-11 it paid ₹ 44.28 Crs. as dividend to GoAP. When coal mining companies are reaping such huge profits there is no reason to increase coal prices. DISCOMs and GOAP shall try to see that these coal prices are brought down. Fraud is there in supply of coal to thermal plants. When the cost of coal is ₹ 3000-3500 per tonne, thermal plants are purchasing at ₹ 5000 per tonne. This may be checked and rectified.

As a result of the failure of Gol in ensuring timely supply of at least allocated domestic coal, Thermal projects of AP Genco and Central generating stations are already forced to buy costly imported coal. There are serious allegations that manipulations and corruption are taking place in purchasing imported coal by confining competitive bidding to a few marketing companies of the Central government. Instead of ensuring international competitive bidding to enable foreign producers of coal to participate in the process to ensure real competitive bidding and economic price for imported coal, the DISCOMs have proposed to add 10% escalation over actual variable costs of first half year of 2012-13 of AP Genco and Central generating stations for the next financial year.

**Licensee's Response:** The fuel pricing is not under the purview of the licensees. However, Licensees will take up the matter with the GoAP.

**Commission's View:** The allocation of coal linkage and fixing of coal price for thermal plants is in the purview of Gol. Therefore, the DISCOMs are advised to take-up the issue of fuel pricing with Gol with the help of GoAP.

The DISCOMs are directed to verify whether APGENCO is procuring imported coal through competitive bidding process, or under any guidelines issued on this regard by Gol, before admitting the Station wise power purchase bills claimed by APGENCO.

Regarding NTPC Stations, DISCOMs have to take-up the pricing issue of imported coal, if any, with CERC.

118. **Objections/Suggestions regarding dependence on imported coal:** Sri V.Venkataramaiah, Sri. M. Venugopal Rao and others have stated that, besides the hike in coal price supplied by CIL and SCCIL the import of coal is adding to the burden. GENCO is being forced to import coal at exorbitant cost; though quality of imported coal is higher than domestic coal it is not in commensurate with the price. While quality of imported coal is 80% higher than domestic coal its price is higher than two or three times. Every attempt shall be made to see that dependence of imported coal is reduced. The coal procured from outside India is of non-standard.

**Licensees' Response:** Licensee stated in its reply that "APGENCO is taking all steps to minimise usage of imported coal by procurement of domestic coal at e-auction prices, transporting domestic coal through rail cum sea cum rail. The usage of imported coal is only 1.6 MMT in total consumption of 27 MMT which is 5.92%, which is inevitable."

**Commission's View:** Regarding percentage of blending of imported coal in the existing Thermal Power Stations with indigenous coal linkage, the DISCOMs are directed to ensure that APGENCO shall follow the recommendations of the CEA, contained in clause 7.1 of the CEA document "Report Of The Group For Studying Range Of Blending Of Imported Coal With Domestic Coal" released in the month of April'12, which reads as follows:

'About 10-15% blending of imported coal by weight (15-25% on heat value basis) can generally be carried out in typical existing Indian power boilers designed for low quality Indian coals -----'

Similarly, for new stations designed higher GCV coal, the CEA in its letter No.CEA/TE&TD-TT/2011/F-901-111 dated: 19-04-2011 addressed to all State Power Secretaries, Thermal Power generating companies/project developers etc, mentioned as follows:

“Accordingly, all power generating companies, power project developers and power equipment manufacturers are hereby advised that for the purpose of design of boilers for all future indigenous coal based thermal power plants, a stipulation shall be made that the boilers (including auxiliaries) shall be designed for blend ratio by weight of 30:70 % (or higher) imported/high GCV indigenous coal.....” In view of above, the DISCOMs shall ensure the limit of usage of imported coal as above.

Regarding usage of imported coal in CG Stations, the DISCOMs may insist the CG Stations to follow the orders issued by CERC, if any, or may advise the CG Stations to follow the CEA guidelines in this regard.

119. **Objections/Suggestions regarding quality of domestic coal:** Sri K.Raghu and others have stated that, apart from increasing dependence on imported coal to bridge fuel shortfall, one of the main reasons for this huge claims made by APGENCO is poor quality of coal it gets from Singareni collieries. While SCCL claims that it is supplying coal of agreed quality based on joint testing made by SCCL and APGENCO at the point of supply, it is learnt that test reports at the receiving points at thermal stations show that more than 80% of the coal is of poor quality and un-graded. Poor quality of coal increases power purchase costs resulting in huge additional financial burden on consumers.

**Licensees’ Response:** The actual landed cost of coal is considered for tariff. The landed cost of coal depend upon basic cost of coal including taxes, source of coal and mode of transportation and distance between coal mine and the Power project. There is severe shortage of coal throughout India besides shortage of railway racks resulting Generators to procure imported coal, e-auction coal at higher prices and transport the same partly by rail cum sea cum rail route resulting higher costs. These costs are not within the hands of Generator and the cost implications are much less when compared with outside purchases. M/s SCCL has increased its cost of coal from ₹2050 per MT in Year 2010-11 to ₹ 2700 per MT during the year 2011-12.

**Commission’s View:** The DISCOMs are directed;



*to “appoint independent coal auditors to ensure that the coal of agreed quality and price as per fuel supply agreement (FSA) is used for generation of power at all coal based Thermal Power Stations. Before making final payment such audit reports should be verified by the concerned officers of the DISCOMs”.*

APGENCO is also directed to adopt proper sampling technique both at sending and receiving end for coal supply from each source separately keeping in view the importance of coal audit as directed to DISCOMs.

120. **Objections/Suggestions regarding transit losses of coal: Sri R. Venkaiah and others** have stated that, a review of coal records of Dr. NTTPP (selected unit) revealed that the company suffered transit loss ranged between 2.05 per cent and 3.13 per cent against the norm of 0.8 per cent fixed by CERC during the period under review. According to para 2.2.25 of this audit report “ Due to use of coal having less gross calorific value(GCV) and consumption of excess heat than the designed heat rate due to leakages of steam in the aging units of power plants on account of delay in taking up of the life extension programmes, there was excess consumption of coal to the tune of 323.77 Lakh MTs (4,845.29 Crs.) on account of use of low GCV coal and 74.41 Lakh MTs (1,099.53 Crs.) on account of high heat rate”. We request the commission to see that the financial burden arising out of these inefficiencies are not transferred on to the consumers.

**Licensee’s Response:** Like transformation losses of electricity, windage, shrinkage and transportation losses are inevitable in respect of coal. Hence norms are fixed by APERC/CERC. As per APERC regulations dt.01.09.2008, any generator including APGENCO is allowed to claim cost of coal with normative SHR and transit loss of 0.8%. For any particular station excess transit loss, if any, over and above normative value is not pass through in tariff. However the Station Heat Rates of APGENCO stations matches with the norms fixed by APERC. Regarding usage of low GCV coal, APGENCO has to use coal supplied by Coal companies and they are being paid for the quality of coal being supplied to APGENCO Stations after joint sampling test. Hence transferring of burden to consumers does not arise on account of any variation in transit loss, SHR and coal costs.

**Commission's View:** Regarding transit losses of coal beyond the normative percentage of 0.8 for non-pit head generating stations like the unit of Dr.NTTTP under consideration and excess use of thermal energy beyond the normative station heat rate, Licensees are directed to take up the matter with APGENCO for a critical examination of the actual transit loss and coal consumption of required quality and price and submit a report to the Commission within three months of issue of this order.

121. **Objections/Suggestions new pricing mechanism of coal:** Sri V. Venkataramaiah and others have stated that, the coal mining companies propose to shift to new pricing mechanism based on Gross Calorific Value (GCV) in the place of useful heat rate. This change will result in increase in cost of coal based thermal power by 60 paise per unit. While Coal India Limited indicated that it will postpone the implementation of the new pricing Singareni Collieries already notified that new prices will come in to effect from 8 January, 2012. As the GoAP has majority stake in this company it shall see to it that the new pricing mechanism will not result in additional burden. DISCOMs shall also see that no additional power purchase cost will entail from the new pricing mechanism, as finally it will dent its financial health.

**Licensee's Response:** Coal pricing mechanism is not under the purview of the licensees. However, Licensees will take up the matter with the GoAP.

**Commission's View:** The DISCOMs may take-up the issue with Gol with the help of GoAP.

122. **Objections/Suggestions regarding impact of imported coal:** Sri M.Thimma Reddy and others have expressed that, the use of imported coal did not add significantly or make much difference to average GCV as per the following Table.

Months in 2012	RSTPS St. I & II		RSTPS St. III		Simhadri – I		Talcher St. II	
	% of Imported Coal	Weighted Average GCV kCal/Kg	% of Imported Coal	Weighted Average GCV kCal/Kg	% of Imported Coal	Weighted Average GCV kCal/Kg	% of Imported Coal	Weighted Average GCV kCal/Kg
April	0.00	3749.00	0.00	3673.00	12.92	3230.00	16.16	3151.00
May	1.55	3806.00	0.00	3592.00	20.21	3395.00	19.89	3095.00
June	2.65	3990.00	0.00	3662.00	13.92	3107.00	15.95	2810.00
July	3.34	4051.00	0.00	3535.00	13.53	3211.00	14.92	2812.00
August	0.45	4093.00	0.00	3659.00	0.35	3030.00	7.48	2643.00
Sept.	0.00	4086.00	0.00	3741.00	0.00	3297.00	8.06	2781.00

The GCV of RSTPS which used no or almost insignificant amounts of imported coal reported higher GCV than Simhadri and Talcher plants which used significant portion of coal sourced from abroad. Within these two plants also imported coal did not seem to have made any difference. In the case of Simhadri - I plant in the month of September 2012 without use of imported coal GCV stood at 3297 Kcal/Kg. During June and July months when nearly 14 percent of coal was sourced from abroad GCV was below September level. In the case of Talcher Stage II also such experience could be found. During the month of September with 8% of coal from imported stock GCV stood at 2781 Kcal/Kg. During June with 15.95% imported coal GCV was 2810 Kcal/Kg only. Similarly during July with 14.92% of imported coal GCV was 2812 Kcal/Kg only. Imported coal is said to have 80% more GCV compared to domestic coal. There is need to examine the actual GCV of imported coal is in relation to the price paid to it. APGENCO did not provide similar information. It clearly shows that they are trying to hide crucial information. The Commission shall approve further payments to APGENCO only after submission of complete information to the satisfaction of both the Commission and other stakeholders.

**Licensee's Response:** APGENCO is taking all steps to minimise usage of imported coal by procurement of domestic coal at e auction prices, transporting domestic coal through rail cum sea cum rail. The usage of imported coal is only 1.6 MMT in total consumption of 27 MMT which is 5.92%, which is inevitable.

Generally, the gross calorific value of indigenous coal and imported coal varies from time to time i.e. based on the grade of coal being received by respective thermal station from different mines. In case of RSTPS-III, NTPC has been utilizing the washed coal for the purpose of generation, whereas in case RSTPS I & II, Simhadri - I & Talcher-II, generation is being done by blending meager quantum of imported coal with indigenous coal in every month. However, the actual generation from these stations viz., RSTPS I & II, RSTPS - III, Talcher-II & Simhadri Stage-I is almost tallying in every month the total calories burnt based on weighted average GCV of imported as well as indigenous multiplying with quantum of coal burnt during the respective month.

It is to submit that the variation in weighted average GCV of imported coal & indigenous coal only due to type of coal being received from respective months. However, NTPC was sought to furnish the valid reasons/ clarifications about variation in weighted average GCV of imported coal & indigenous coal.

Finally, NTPC's weighted average gross calorific values of various NTPC's (SR) stations in every month are thoroughly examined and also NTPC is being sought the valid reasons/clarifications if any major variation in GCV observes in any month of all NTPC (SR) stations. APGENCO is not hiding any information relating to the import coal usage. All the information related to coal usage has been already submitted to APPCC and APERC in the FCA bills submitted.

**Commission's View:** The Distribution licensees are directed to take-up the issue of variation in GCV (lower GCV of blended coal than indigenous coal) of CG stations with NTPC and report compliance by 30<sup>th</sup> September, 2013.

Licensees are directed to take up the matter with APGENCO for a critical examination of the variation in GCV and submit a report to the Commission by 30<sup>th</sup> September, 2013.

123. **Objections/Suggestions regarding delay in coal mining projects:** Sri V. Venkataramaiah and others have stated that, there appears to be deliberate attempts to delay coal mining projects in order to increase coal prices. There is also increasing talk about price parity between Indian market price and international market price. Since 1997 captive coal blocks are being allocated to private companies as well as public sector power companies. But they are not paying attention to start mining coal. At the national level while CIL was allocated coal fields bearing 60 billion tons of coal it is producing more than 450 million tons per annum the private companies which were allocated coal fields bearing 40 billion tones were producing only 40 million tons of coal. In AP also GENCO was allocated four coal blocks for captive mining in 2005. They are supposed to start mining by 2008. But to this day there is no sign of mining in these blocks. While coal blocks of Anisettipalli, Punukula Chilka and Pengadapa were de-allocated in the case of Tadicherla a Show Cause notice was issued for the delay in mining coal. This deliberate delay in mining is leading to import of costly coal.

**Licensee's Response:** The coal from Tadicherla coal block is allotted to KTPP II which is under construction. APGENCO is taking all possible steps to

complete the mining activity and commence production before completion of power project. APGENCO entrusted the mining activity to M/s SCCL and awaiting Environmental clearance to commence the mining activity.

**Commission's View:** The allotment of coal blocks is under purview of the Gol. Regarding progress on Tadicherla coal block allocated to APGENCO, the reply has been furnished by the DISCOMs.

124. **Objections/Suggestions regarding allocation of KG basin gas:** Sri. T. Harish Rao, M.L.A, Sri K. Raghu, Sri K. Venugopal Rao and others have expressed that, due to the failure of RIL and the Gol to ensure production and supply of natural gas as per allocations made, the plant load factor (PLF) of the old private power projects is projected to be 58% and of the four new private power projects of GVK extension, Gautami, Vemagiri and Konaseema to be 2% during the next financial year. To reduce the projected shortage of 22287 MU against the estimated demand of 106061 MU during 2013-14, the DISCOMs have proposed to utilize the stranded installed capacity of these projects to get 6008 MU generated by using RLNG. The tariff to be paid for this quantum of power is estimated to be ₹10 per unit. The DISCOMs also have proposed to purchase 13753 MU on short-term and medium-term basis from private projects and power traders at an average cost of ₹ 5.11 per unit.

Due to failure of RIL in supplying natural gas as per allocations made, the shortage of gas-based power is estimated to be 11300 MU based on 80 per cent PLF of the installed capacity of the existing projects with whom the DISCOMs had power purchase agreements. What are the gas allocations to AP DISCOMs from Reliance D-6 block? What are steps taken by DISCOMs for increasing the gas allocations?

The average cost of gas-based power even at the unjustifiable high cost of natural gas of the US\$ 4.20 per MMBTU is about ₹ 3 per unit. For purchasing RLNG-based power of 6008 MU, the DISCOMs have to shell out an additional sum of ₹ 4205 Crs., with a difference of ₹ 7 per unit. Similarly, for purchasing another 5292 MU in the open market, the DISCOMs have to pay on an average ₹ 5.11 per unit, which works out to an additional burden of ₹ 1116.61 Crs., with a difference of ₹ 2.11 per unit. In other words, the failure of Gol and RIL in supplying natural gas to the power projects imposes an additional burden of ₹ 5321 Crs.

The commission as well as the Government of AP shall see to it that the gas from KG basin is transported outside AP only after meeting full requirement of gas based power plants in AP.

**Licensees' Response:** There are 9 gas based power projects (8 IPPs + 1 JV) operating in the state with the Installed capacity of 2770 MW. The Natural gas requirement to these power projects is 12.97 MMSCMD. The New gas based IPPs viz; 464 MW Gautami, 220 MW GVK Extn, 370 MW Vemagiri & 444.08 MW Konaseema have been given consent by APERC on 12.04.2003 based on the assurances regarding availability of Natural Gas by MOP&NG, GOI, GAIL & ONGC. As per the allocations of MOP&NG, GOI, all the new IPPs have entered Gas Supply Agreements with M/s GAIL in co-terminus with term of the PPAs. However M/s GAIL could not supply gas to these IPPs. After the advent of RIL KG D-6 gas during April'2009, EGOM, GOI allocated 75% requirement of natural gas to the projects in AP and 70% requirement of natural gas to the projects located in other parts of the country based on the readiness of the projects. The Natural gas production from KG D-6 basin reached the level of 60 MMSCMD during 2010 and was expected to reach at the level of 80 MMSCMD by 2012-13. However, there was a progressive decline in KG D-6 gas production from October'2011. Currently the 4 old IPPs + 1 JV receiving about 2.70 MMSCMD (from ONGC) + 0.09 MMSCMD (from RIL D-6) against their total allocation of 6.27 MMSCMD from ONGC/Ravva and RIL KG D-6 fields. Whereas the 4 new IPPs receiving natural gas only to an extent of 0.73 MMSCMD against the EGOM allocation of 6.00 MMSCMD (75% PLF) from RIL D-6 fields. With the above gas supplies the plants are generating a total of 670 MW against the 2770 MW installed capacity leaving a deficit of 2100 MW. The present natural gas production in RIL D-6 fields is 21 MMSCMD. In view of the reduction in RIL KG D-6 gas supplies, MoP&NG, GoI directed RIL for implementation of cuts in the natural gas supplies in the following order: (i) Fertilizers (ii) LPG Plants (iii) Power (iv) CGD etc. Accordingly, the fertilizer sector is being supplied with 14.63 MMSCMD, LPG with 2.5 MMSCMD and power sector with 3.87 MMSCMD of natural gas. As the power sector is under 3rd priority the leftover gas of 3.87 MMSCMD is being supplied to the power plants in the country on prorata basis. EGOM, GOI also allocated Natural Gas to an extent of 7.6 MMSCMD to M/s Ratnagiri Power plant (Dabhol/Enron), though the plant was originally contemplated with LNG. Now this plant is receiving D-6 gas on par with power plants across the country. In view of the above, several times GoI was requested to divert the natural gas of Ratnagiri power

plant to the AP IPPs. A series of correspondence at highest level from GOAP is regularly being made with GOI for augmentation of gas supplies to the IPPs in the State for restoration of at least 75% as per the gas allocation made by EGoM, Gol. Due to pursuance from GOAP, Hon'ble union Minister for Petroleum & Natural Gas during the meeting held at Hyderabad on 27.01.2013 have given assurance for immediate allocation of 2 MMSCMD of Natural Gas expected from G-1 & G-15 fields of ONGC to AP IPPs.

To meet the power crisis in the State and also to utilize the idle capacity of the gas based projects, GoAP sanctioned ₹ 300 Crs to purchase RLNG for a period of one month to meet the ensuing Rabi demand. Further, as per the approval of APERC the expensive power is proposed to be supplied to the willing consumers on no-profit and no-loss basis. As such, the burden of purchasing RLNG would not be transferred to the consumers. To augment the natural gas supplies, series of correspondence is being made at highest level for supply of 75% requirement of natural gas to the AP projects as per the allocation of EGoM, Gol. Recently, Hon'ble Chief Minister vide letter dated 30.01.2013 requested Hon'ble Union Minister for MoP&NG, Gol to immediately allocate 2 MMSCMD of non APM gas expected from G-1 & G-15 blocks of ONGC in eastern region to the AP Projects as assured during meeting dt.27.1.2013, so that gas plants can operate at improved PLF.

The Empowered Group of Ministers (eGoM) on gas pricing and commercial utilization of gas of Government of India is the competent authority to decide on allocation and pricing of natural gas. To augment the natural gas supplies, series of correspondence is being made at highest level for supply of 75% requirement of natural gas to the AP projects as per the allocation of EGoM, Gol. Recently, Hon'ble Chief Minister vide letter dtd.30.01.2013 requested Hon'ble Union Minister for MoP&NG, Gol to immediately allocate 2 MMSCMD of non APM gas expected from G-1 & G-15 blocks of ONGC in eastern region to the AP Projects as assured during meeting dt.27.1.2013, so that gas plants can operate at improved PLF.

**Commission's View:** The Commission has noted the detailed response furnished by the licensees.

125. **Objections/Suggestions regarding hike in gas price:** Sri M. Thimma Reddy and others have stated that, the Increase in gas price has adversely impacted the consumers. The price of gas from KG basin fields of RIL was increased

from \$2.52 to \$ 4.2 per MBTU in a questionable manner. The new price is said to have been arrived at through so-called price discovery mechanism. This mechanism was carried out by RIL but not by the Government of India. The prime minister's Economic Advisory council also found fault with the mechanism adopted in this price discovery. But still the GOI went ahead and gave clearance to this hike. RIL sought gas price hike in the name of increased capital cost. The GOI also came to a conclusion that \$ 1.85 billion out of \$ 5.694 billion already claimed cost and as it was found that the claimed capital expenditure by RIL was not real but inflated gas prices shall be brought down. DISCOMs as well as GoAP shall see to it that old gas prices prevail.

Recently a committee headed by Prof. Rangarajan, Chairman of the prime minister's economic advisory committee recommended hiking gas price to \$8 per MBTU. As the proposed hike not based any proper methodology it shall be opposed. The generators are buying the gas from the D-6 gas basin at Rs 8500 per 1000 cubic meter instead of ₹ 1600 per cubic meter. This may be rectified.

The approach of the Gol in fixing price of natural gas being produced in KG basin in US \$, not in Indian Rupee, is increasing the price in Rupee terms, as and when the exchange value of Rupee gets depreciated vis a vis the US \$. Depreciation of exchange value of Rupee is having similar adverse impact on the cost of imported coal as well. The additional impact of this depreciation on the prices of both natural gas.

**Licensees' Response:** Natural gas being natural resource, MOP & NG, GOI through competitive bidding route under New Exploration & Licensing Policy (NELP) route selected the prospective developers and allocated the gas wells in KG Basin for production natural gas. Accordingly, MoP&NG, Gol has entered Production Sharing Contract (PSC) with selected bidders. Since 2007, a series of correspondence was made with Gol to have an independent and autonomous regulator to fix the price of natural gas and it should not be market driven price. Further it was requested that the price of natural gas to the power and fertilizer sector should not be higher than US\$ 2.5/MMBTU. In spite of the above request, EGOM, GOI fixed the RIL KG D-6 gas price @ 4.205 US\$/MMBTU and the price is valid up to March'2014, based on the International crude oil price. Hon'ble Supreme Court in its judgment on



dispute between RIL & RNRL clearly indicated that “the PSC and constitutional provisions on natural resources override private agreements and the Government retains the power to control price”. EGoM, Gol is only the competent authority to revise the price of natural gas beyond 2014. With regard to the capital expenditure of RIL, and awarding of contracts to the successful bidder under NELP policy, the same is within the purview of MOP&NG, Gol and it take appropriate action.

The Empowered Group of Ministers (EGoM) on gas pricing and commercial utilization of gas of Government of India is the competent authority to decide on allocation and pricing of natural gas.

**Commission’s View:** The pricing and allocation of natural gas used for power generation is under the purview of Empowered Group of Ministers (eGOM) of Government of India (Gol).

126. **Objections/Suggestions regarding transportation of gas:** Sri B.V.Raghavulu & others have expressed that, the gas explored in KG basin is being transported to Maharashtra and Gujarat and we are importing the gas from Bombay. The transportation cost will be reduced if we use the KG basin gas here and the Maharashtra and Gujarat will use the imported gas there. If any difference in cost is there they can be adjusted.

**Licensee’s Response:** The reply will be given by the respective departments.

**Commission’s View:** The suggestion of the objector to minimise the cost of cross transportation is appreciated. The Commission hopes that a satisfactory arrangement will emerge which will be good not only for the licensees but also for the economy as a whole.

127. **Objections/Suggestions regarding allocation of fuels to APGENCO stations:** Sri M. Sridhar Reddy and others have stated that, the supply of gas/other fuels to Private Projects instead of GENCO that sells electricity at an economic rate is objectionable. Further, it is to be noted that the private power projects are selling the power to other states with the fuels used from AP State. Government may be directed to allot the Gas/Coal and other fuels to APGENCO instead of Private Power Projects. To take up the pending Gas and Coal based plants of APGENCO by allotting fuel to them.

**Licensee's Response:** The matter is not in the purview of the Licensee.

**Commission's View:** The allocation of gas to power plants is under the purview of eGoM of Gol. The allocation of coal (linkage) is under the purview of Gol.

128. **Objections/Suggestions regarding RPPO obligation:** Sri B.V Raghavulu and others have expressed that, by proposing to purchase power from wind units with a capacity of 730 MW at an average tariff of ₹ 4.55 per unit (for new units it is ₹ 4.70 per unit) and from solar units with a capacity of 609 MW at an average tariff of ₹ 5.50 per unit, the DISCOMs are adding to the power purchase cost. The projected PLF of wind units is 22% and of solar units 20%. Which means such high cost power with very low PLF is neither an alternative nor a solution to the present power crisis. The higher tariffs being fixed by the Commission, and the role of the Central and State Governments in this process, for different categories of NCE units, including wind and solar power units, and the RPPO order of the Commission are imposing avoidable additional burdens on the consumers of power.

**Licensee's Response:** Licensees have been directed to purchase power compulsorily from Renewable sources to meet their Renewable Power Purchase Obligations (RPPO).

Also the tariff from stations running on conventional sources has increased beyond ₹ 4.55/Unit. The overall power purchase cost has increased not only from the renewable sources but also from conventional sources.

**Commission's View:** As per section 61 (h) of EA 2003, and as per section 86 (e) the Commission shall promote the co-generation and generation of electricity from renewable sources.

Accordingly, the Commission has issued RPPO order and regulation 1 of 2012. The objective of the Act is to encourage green energy and thus to avoid Global warming.

129. **Objections/Suggestions regarding NCE Generation:** Sri S. Changalraya and others have stated that, Govt should put more efforts to establish Non conventional Energy (Wind, Solar power Generation, Mini Hydel etc.) as was done by Gujarat State instead of contemplating to hike in power tariff and putting burden on consumers.

**Licensee's Response:** GoAP is actively pursuing its policy of increasing the power availability from renewable sources. APTRANSCO has called for tenders for setting up 1000 MW of solar power in the near future. GoAP is committed to increase such schemes in the future. AP DISCOMs have considered around 1831MW from NCE sources which delivers 3474 MU for FY2013-14 at the cost of ₹ 4.69/unit.

The installed capacities of NCE projects in the state projected for FY 13 and FY 14 are as follows:

Type of Project	FY 2014 (MW)
Bio Mass Power Projects	200.00
Bagasse Cogeneration Projects.	190.70
Wind Power Projects	730.00
Mini Hydel Power Projects	51.05
Industrial Waste Based Power Projects	29.16
Municipal Waste Based Power Projects	12.74
NCL Energy Ltd.	8.25
Solar Power Projects	608.75
TOTAL	1830.65

**Commission's View:** The suggestion of the objector to increase NCE generating capacity is appreciated. Renewable sources of energy are gradually becoming competitive as compared to conventional power. Hence, encouraging renewables, not only helps meet environmental objectives but also securing economic advantage.

130. **Objections/Suggestions regarding solar power policy:** Sri M.Thimma Reddy and others have stated that, according to the Solar Power Policy of the GoAP about 1,000 MW generation capacity is going to be added by June 2013. According to this policy statement DISCOMs will purchase power from these plants. But the same is not considered in the present filings.

**Licensee's Response:** The licensees have already issued a tender for procurement of solar power on a competitive basis. It is estimated that 1,000 MW of generation capacity is going to be added during the year. A part of generation capacity is expected to be added at the beginning of the year and some part of the capacity is expected to be added during the later part of the

year. Hence, the licensees have considered on an average, 500 MW of power to be available throughout the year.

**Commission's View:** After examining the availability of solar energy, the Commission is of the view to consider the availability of solar energy 569 MU during the FY 2013-14 as filed.

131. **Objections/Suggestions regarding solar plants in villages:** Sri P.S.R. Krishna Prasad and others have opined that, the electric supply to remote villages may be provided by erecting Solar plants.

**Licensee's Response:** Not furnished.

**Commission's View:** The Commission noted the suggestion.

132. **Objections/Suggestions regarding wind tariffs:** Sri Bonthala Chandra Reddy has stated that, the enhancement of unit rate from the wind generators from Rs 3.50 to ₹ 4.70 may be revised.

**Licensees' Response:** The unit price of power from conventional energy sources is more than ₹ 4.55. The power purchase costs from NCEs are also getting increased in line with the Conventional sources.

**Commission's View:** Commission has issued orders for new wind based plants at unit rate of ₹ 4.70 for the wind plants commissioned after 15-11-2012 considering the views of the stake holders during public hearing. It is hope that this will help in augmenting wind based power generating capacity in the state.

133. **Objections/Suggestions REC mechanism:** Sri K. Raghu and others have expressed that, the Policy of Govt of AP to procure solar power directly by DISCOMs from solar power producers through competitive bidding process is resulting loss of huge revenue otherwise accruable to State under REC route. If some other agency, say APGENCO, is entrusted with procurement of solar power through bidding process and sells this energy to DISCOMS at pooled cost i.e. ₹ 3.50/unit, then APGENCO would become eligible for RECs, which means additional revenue of about ₹ 12.50/unit. This will not only avoid entire burden proposed to be borne by Govt of AP, but also benefit electricity consumers in the form of availability of cheaper power.

**Licensee's Response:** DISCOMs have to meet RPPO of 0.25% of the total power procurement to be met from renewable sources. DISCOMs have floated tenders to meet RPPO (Recent tender for setting up 1000 MW of solar power). In absence of meeting solar RPPO, DISCOMs have to procure REC from power exchange. Considering floor price of  $9.30 + 3.50 = ₹ 12.80/$  unit. DISCOMs expect tariff in the range of ₹ 7-8/ unit including REC benefit. This proposition is beneficial to DISCOMs.

**Commission's View:** The DISCOMs are advised to examine the suggestion of the objector in the context of provisions of the RPPO Regulation and the REC mechanism with particular reference to solar power generation and also the solar policy announced by the GoAP.

134. **Objections/Suggestions regarding price of solar power:** Sri K. Raghu and others have stated that, it is not clear how a price of ₹ 5.50/unit is arrived at by the DISCOMs for the entire solar power purchases, when average power purchase cost from various sources excluding renewable, liquid fuels and short term sources is only around ₹ 3.50/unit. DISCOMs can expect additional power from solar projects under Renewable Energy Certificate (REC) route, in which case DISCOMs are obliged to pay only pooled cost i.e. ₹ 3.50/unit. Even if additional capacity additions anticipated from ongoing competitive bidding as per Government of AP policy is taken into account, DISCOMs shall project only pooled cost i.e. ₹ 3.50/unit and the balance costs shall be borne by the Govt of AP as committed in the GO.

**Licensees' Response:** An average estimate of ₹ 5.50/Unit has been taken for computing the total power purchase cost from Solar sources for the ARR filing for FY 13-14.

**Commission's View:** Taking into account several factors like the need to encourage solar power in tune with the national solar policy, the advantages of encouraging setting up of solar power plants within the state, the need to enable the fulfilment of solar RPPO obligation, the relative price differential in the emerging power market scenario and the advantages of sourcing physical solar energy as compared to purchase of obligated solar REC certificates, the Commission has decided to permit the purchase of solar power to the extent of 569 MU at ₹ 5.50 per unit in the present tariff order.

135. **Objections/Suggestions regarding payment of deemed energy charges to private producers:** Sri D. Ramaswami Reddy has stated that, Discom should not pay “deemed energy charges” to IPPs as per the PPAs and also requested APERC to delete the deemed generation clause in the PPAs as per the Supreme Court ruling.

**Licensee’s Response:** Taking the advantage of the reforms, the then APSEB invited bids for short gestation projects for quick capacity addition. Six private gas based projects were selected for supply of power to AP. Two projects were commissioned and supplying the power since 2001. Due to non availability of natural gas, the other four projects viz., GVK Extn., Gautmai, Vemagiri & Konaseema have entered PPAs during 2003 with the consent of APERC. APERC while granting consent to the projects has clearly observed that “Commission is satisfied about the availability of natural gas for the entire period of the PPA. As regard the price, the Commission is of the view that even at market determined prices (as estimated at present) the total cost per unit would compare favourably with that of the plants using other fuels.” Based on the experience of payment of deemed generation charges to the old projects, DISCOMs have filed petitions before APERC for deletion of usage of alternate fuel provisions from the PPA of four new projects. After the advent of RIL KG D-6 gas, the aforesaid four projects have commissioned during 2009-10. As on today, no deemed generation charges were paid to the IPPs (GVK Extn., Gautami, Konaseema & Vemagiri).

**Commission’s View:** The reply furnished by the DISCOMs, stating that as on today no deemed generation charges were paid to the IPPs (GVK Extn., Gowthami, Konaseema and Vemagiri), is satisfactory.

Regarding deletion of alternate fuel clause for the above IPPs, the matter is under the adjudication of the Commission.

136. **Objections/Suggestions cost of additional power in 2008-09:** Sri Bonthala Chandra Reddy has expressed that, during the year 2008-09 Government had assured that they will bear the cost of additional power required for maintaining the uninterrupted power supply to the consumers. This amount of around ₹ 12134 Crs. was not paid to DISCOMs by the Government and being levied on the consumers in the name of FSA. It is requested to direct the Government to pay that amount.

**Licensee’s Response:** Not furnished.

**Commission's View:** Such amounts are not considered at the time of FSA determination.

137. **Objections/Suggestions regarding construction of pit head stations:** Sri. G. Prabhakar Rao has opined, to construct thermal power plants near coal mines as per international standards.

**Licensees' Response:** Not furnished.

**Commission's View:** The Suggestion is commendable.

138. **Objections/Suggestions regarding purchasing of power at higher rates:** Sri J.L. Goutham Prasad and others have expressed that, the DISCOMs have purchased the power at higher rates. It is requested to conduct an enquiry about the purchases.

**Licensee's Response:** Not furnished.

**Commission's View:** The Commission is restricting the purchase price allowed for market purchases upto the ceilings prescribed in the respective tariff order under short term procurement method while passing on the cost of power purchase to the consumers.

139. **Objections/Suggestions regarding PPAs of APGENCO plants:** Sri P.Jamalaiah and others have expressed that, the PPAs of AP Genco plants were submitted to the Commission in December 2009, seeking its consent to the same. It has not taken up the PPAs for public hearing and disposal.

**Licensees' Response:** Not furnished.

**Commission's View:** Determination of generation tariffs of APGENCO will be done during this financial year. At that time, the consent for PPAs of APGENCO plants will also be considered.

140. **Objections/Suggestions regarding amendment of PPAs of GVK, Spectrum and Lanco power plants:** Sri M. Venugopala Rao and others have stated that, the Commission shall decide on the terms and conditions of the PPAs of GVK, Spectrum and Lanco projects, based on experience of such and similar projects or national tariff policy, etc., relating to their actual performance. And also questioned further action the DISCOMs have taken in this matter.

**Licensees' Response:** DISCOMS have filed Review Petition R.P (SR) No.41 of 2011 before APERC, seeking review of the order passed by the Hon'ble

Commission for revision of norms/parameters for tariff computation based on CERC tariff regulations. APERC heard the review petition and reserved its order on 04.08.2012 on its admissibility.

With regard to the obligation of the Hon'ble commission on framing tariff regulations under section 61, 62, 86 (1) (b) & 181 of Electricity Act, 2003, it is to submit that the Hon'ble Commission had issued Regulation No.1 of 2008 for determination of tariff payable to generating companies, which is made applicable for PPAs signed and approved by the Commission only after 06.01.2006 and not for PPAs prior to 06.01.2006.

The Commission is giving consent to the PPAs entered after 06.01.2006 duly scrutinizing the PPA terms and conditions with reference to the tariff regulations framed by it.

**Commission's View:** The Review Petition R.P (SR) No.41 of 2011 filed before APERC, by DISCOMS, seeking review of the order passed by the Hon'ble Commission for revision of norms/parameters for tariff computation based on CERC tariff regulations was disposed off on 27.02.2013, holding that the same is not admissible.

141. **Objections/Suggestions regarding PPAs of BPL power projects (AP) private ltd.,:** Sri B.V Raghavulu and others have expressed that, how long will the issue of "executed and amended" PPA of Ramagundam project of BPL Power Projects (AP) Private Limited (620 MW) continue to be "under the consideration of the Commission"? What further action the DISCOMs and the Commission are taking in the matter of this private power project which continues to fail to take off even after an abnormal "gestation" (?) period of nearly two decades and deprive the State of power?

**Licensee's Response:** Not furnished.

**Commission's View:** The review petition filed on PPA of BPL Power Projects (AP) Private Limited by Shri. M. Thimma Reddy of people monitoring group (PMG) has been heard and orders are reserved.

142. **Objections/Suggestions Payment of incentive to GVK's Project:** M/s Vinnakota Enterprises and others have stated that, the Commission blatantly misinterpreted applicability of a notification issued by the Ministry of Power, Gol, dated 26.2.1997, contending that the notification would come into force from 1992. The Commission ignored subsequent changes in law which are applicable, again to the undue advantage of the private developer.



**Licensee's Response:** Not furnished.

**Commission's View:** The remedy of appeal available in the Electricity Act, 2003 may be invoked if any person is aggrieved by the orders of the Commission.

143. **Objections/Suggestions regarding PPAs of silk roads and RVK projects:** Sri V. Manoj Kumar and others have expressed that, the Commission had refused to take up PPAs of projects of Silk Roads and RVK filed before it for determination of tariff, simply making oral observations that the Commission may not be competent to determine the tariff for conventional projects arrived at by the parties to the PPAs, since the GoI has taken a stand by filing an affidavit before the Supreme Court that procurement of power shall be only through competitive bidding route. And questioned action the DISCOMs have taken in all the above-explained issues to protect the interests of consumers of power?

**Licensee's Response:** Not furnished.

**Commission's View:** The matter regarding methodology of determination of tariff for capital cost based projects after 06.01.2011 is before Hon'ble Supreme court of India.

144. **Objections/Suggestions regarding connectivity with North-East-West (NEW) Grid :** Sri R. Prakash Reddy and others have expressed that, to improve the expansion, capacity and access to the North and East transmission lines to purchase the power at an affordable cost and reduce the per unit charge on the consumers.

**Licensee's Response:** Not in the purview of the licensee.

**Commission's View:** Matter is under the purview of MoP, CEA, CERC & PGCIL.

145. **Objections/Suggestions regarding D-D purchase price:** M/s. Ferro Alloys Producers Association has stated that the merit order approach has been followed by the Commission to estimate the power purchase cost from such transfer of energy. However, the licensees have priced the transfer of energy on the basis of the price of short term/ Bilateral purchase as against the approach followed by the Commission.

**Licensees' Response:** As per the merit order dispatch for FY 2013-14 the last dispatch unit is from bilateral purchases. The Commission determined methodology for fixing of D-D price is the sum of incremental variable cost of

the last dispatch station and the average fixed cost. This methodology will be holds good in the scenario when the tariff of last dispatch station is of two part tariff (Fixed charges and variable cost). As per the Ministry of power guidelines the Licensees shall procure power through competitive bidding price from November, 2011. The price in this process will be single part tariff. Hence the Licensee has taken the price of Bi-lateral purchases Rs 5.11 per unit as D-D Trading purchase.

**Commission's View:** This year, there happens to be a departure from the above pricing because of the large gap between the demand for energy and supply from approved / shared stations. Most of the months market sources also form the source of marginal station. Energy purchases from market sources are initially allocated in the ratio of percentage allocation of each DISCOM as per Third Transfer Scheme. In the process of settlement for D-to-D energy transfers, weighted average cost of power purchases from marginal Stations (including market sources wherever such source occurs as marginal Station) estimated at ₹ 4.50 per unit (both Fixed and Variable Cost) is used as the projected cost. However, actual weighted average cost of power purchase from marginal stations (including market sources in every settlement period) shall be used by the Settlement Committee / APPCC / EBC wing of SLDC during actual implementation of this principle during FY 2013-14.

## **ESTIMATION OF POWER PURCHASE COST**

### **A) APGENCO - FIXED COST**

146. Pending determination of Station-wise generation tariff for APGENCO's power stations in OP No.15 of 2009 for FY 2009-14, the fixed cost for APGENCO stations for FY 2013-14 has been estimated in the light of Regulation No. 1 of 2008, and the subsequent information filed by APGENCO.
147. The fixed cost of APGENCO Thermal and Hydel Stations has been estimated at ₹ 5308.87 Crs. by the Commission, as against ₹ 6191.11 Crs. filed by the Licensees on account of exclusion of certain new generation stations (DSTPP, Krishnapatnam Unit-I & Unit-II, KTPP Stage-II, Lower Jurala Hydel Project Units I, II & III) and the period of operation thereof. The fixed cost estimated herein is subject to corrections to be carried out upon the determination of generation tariff for APGENCO stations. The details of station-wise fixed costs approved in the ARR of DISCOMs are given in Annexure H.

## **B) APGENCO - VARIABLE COST**

148. Regarding estimation of the Station-wise Variable Costs of APGENCO stations, the Commission has examined the usage of imported coal and considered its usage upto a maximum of 15% (by weight of total quantity) for existing indigenous coal based thermal generating stations (wherever applicable). For those Stations, which are designed for usage of imported coal blended with domestic coal, the usage of imported coal has been considered upto 30% (by weight of total quantity) in line with the Report of Expert Committee on the usage of imported coal issued by Central Electricity Authority (CEA).
149. Distribution licensees, while arriving at the variable cost, have adopted the Station-wise weighted average rates for the period from April, 2012 to September, 2012 and then escalated the resulting rate by 10% for estimation of variable cost. However, Commission while estimating the variable cost, has considered it prudent to adopt the Station-wise actual variable costs for December, 2012 as a more realistic estimation than weighted average variable cost for first six months of FY 2012-13, based on the base variable cost with original coal linkage and requirement of imported coal. Regarding DSTPP Unit-I (not yet commissioned), the rate of variable charge filed in the ARR has been adopted for estimation of Power Purchase Cost.

## **C) CENTRAL GENERATING STATIONS (CGS) - POWER PURCHASE COST**

150. The fixed costs for CGS stations as filed by Licensees have been adopted after check for correctness in the light of CERC orders. The Station-wise actual variable costs for December, 2012 have been adopted by the Commission as more realistic estimation for CGS stations in the light of above discussion for APGENCO Stations.
151. However, the availability from new CG stations like Kaiga Unit-IV, Vallur TPP and bundled power under JNN SM which were found omitted in the total availability filed by the DISCOMs have been added to the availability of power computed by the Commission while calculating the power purchase cost from the CG stations.

## **D) CENTRAL DESPATCH AND POWER PURCHASE COST FOR FY 2013-14**

152. The monthly availability of energy from different Thermal Power stations along with variable costs as estimated ( the basis of estimation for which is explained in the above paragraphs) by the Commission was used for monthly merit order dispatch for FY 2013-14. The details are given in Annexure F<sub>3</sub>. In

the merit order dispatch, the monthly energy availability from each generating station is stacked up in ascending order of variable cost and dispatched to meet requirements of all the four Licensees. Accordingly, the merit order dispatch is drawn in such a manner that the cost of power procurement at state level is minimized to the extent possible with reference to monthly information on availability and requirement. The details of power purchase cost filed are given in Table 18 and the power purchase cost estimated and approved for tariff calculations are given in the Table 19 and further details are given in Annexures I<sub>1</sub> to I<sub>5</sub>. A summary of monthly and quarterly variable costs is also given as Annexure I<sub>6</sub> for the purpose of FSA calculations.

**Table 22 : Total Power Purchase Costs for FY 2013-14 (As filed by DISCOMs)**

Source	Power Purchase	Fixed Cost	Variable Cost	Incentive	Inc. Tax & others	Total Cost	Avg. Cost
	(MU)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹/unit)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APGENCO							
Thermal	42341.95	4910.86	11020.14	106.59	114.67	16152.25	3.81
Hydel	3753.96	1280.25	0.00	0.00	17.33	1297.58	3.46
CGS excl NTPC Simhadri	14270.23	980.45	2738.65	0.00	0.00	3719.10	2.61
NTPC-Simhadri	10148.79	1253.00	1770.91	0.00	0.00	3023.91	2.98
APGPCL	287.56	18.21	56.33	0.00	0.00	74.54	2.59
IPPs	5270.19	514.09	1171.61	0.00	23.81	1709.51	3.24
NCE	3473.23	0.00	1543.34	0.00	0.00	1543.34	4.44
Others(Srivathsa, LVS)	43.40	43.07	10.89	0.00	8.75	62.72	14.45
Medium term purchase	3051.84	0.00	1148.93	0.00	0.00	1148.93	3.76
Hinduja Plant	1132.96	172.33	198.29	0.00	0.00	370.63	3.27
RLNG	6007.97	618.82	5389.15	0.00	0.00	6007.97	10.00
Other short term sources	13753.27	0.00	7027.92	0.00	0.00	7027.92	5.11
TOTAL	103535.35	9791.08	32076.16	106.59	164.56	42138.4	4.07

**Table 23 : APERC: Power Purchase Cost for FY 2013-14 - Total**

Source	Power Purchase	Fixed Cost	Variable Cost	Incentive	Inc.Tax & Others	Total Cost	Avg. Cost
	(MU)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹ Cr)	(₹/unit)
APGenco	43014.82	5308.87	9017.29	106.59	132.00	14564.75	3.39
Thermal	35958.21	4094.71	9017.29	106.59	114.67	13333.26	3.71
Hydel	7056.61	1214.16	0.00	0.00	17.33	1231.49	1.75
CGS excl Simhadri	16044.54	980.45	3220.97	0.00	0.00	4201.42	2.62
Simhadri	10695.00	1253.00	2081.10	0.00	0.00	3334.10	3.12
APGPCL	278.20	18.21	59.52	0.00	0.00	77.73	2.79
IPPs	3858.87	410.87	830.77	0.00	0.00	1241.26	3.22
NCE	3473.23	0.00	1543.34	0.00	0.00	1543.34	4.44

Srivathsa & LVS	43.40	43.07	10.89	0.00	8.75	62.71	14.45
IPPs (on RLNG)	2431.21	241.67	2180.80	0.00	0.00	2422.47	9.96
Market Sources	10094.66	0.00	6056.79	0.00	0.00	6056.79	6.00
<b>Total</b>	<b>89933.93</b>	<b>8256.14</b>	<b>25001.47</b>	<b>106.59</b>	<b>140.75</b>	<b>33504.57</b>	<b>3.73</b>
<b>RPPO - REC Cost</b>	<b>813.49</b>	<b>0.00</b>	<b>122.02</b>	<b>0.00</b>	<b>0.00</b>	<b>122.02</b>	<b>1.50</b>
<b>Grand Total</b>	<b>89934.43</b>	<b>8264.50</b>	<b>25123.49</b>	<b>106.59</b>	<b>132.00</b>	<b>33626.59</b>	<b>3.74</b>

#### **E) MERIT ORDER DESPATCH: D-TO-D ENERGY TRANSFER PRICING AND COSTS**

153. Since almost all generating stations/sources for Andhra Pradesh are shared by four Licensees and the power from the generating stations is dispatched on central basis, often the energy share of one Licensee happens to be utilized by another Licensee (DISCOM-to-DISCOM energy transfers). In the merit order process adopted for estimating the power purchase cost, such transfer of energy is priced at sum of fixed cost per unit and variable cost per unit. The fixed cost adopted is the average fixed cost of all generating stations (approved sources) for the year and the variable cost adopted is the variable cost of last station, which is dispatched as marginal station for the settlement period under consideration.

This year, there happens to be a departure from the above pricing because of the large gap between the demand for energy and supply from approved/shared stations. Most of the months market sources also form the source of marginal station. Energy purchases from market sources are initially allocated in the ratio of percentage allocation of each DISCOM as per Third Transfer Scheme. In the process of settlement for D-to-D energy transfers, weighted average cost of power purchases from marginal Stations (including market sources wherever such source occurs as marginal Station) estimated at ₹ 4.50 per unit (both Fixed and Variable Cost) is used as the projected cost. However, actual weighted average cost of power purchase from marginal stations (including market sources in every settlement period) shall be used by the Settlement Committee / APPCC / EBC Wing of SLDC during actual implementation of this principle during FY 2013-14.

154. After pricing the D-to-D energy transfer, the power purchase cost is placed differently for each Licensee to the extent of surplus/deficit. The details of power purchase cost before and after D-to-D energy transfer are given in Table 24.

**Table 24 : Cost Adjustment for D-to-D Energy Transfer for FY 2013-14**

Licensee	Allocation from total approved energy	Energy purchase Required	Surplus / (Deficit)	Energy Cost before D-to-D transfer	Energy cost after D-to-D transfer	Surplus / (Deficit)
	(MU)	(MU)	(MU)	(Rs. Cr.)	(Rs. Cr.)	(Rs.)
CPDCL	41096.76	40498.79	597.98	15303.23	15,034.14	269.09
EPDCL	14122.84	15140.19	(1017.35)	5283.86	5,741.67	-457.81
NPDCL	14183.91	12655.85	1528.06	5272.35	4,584.73	687.63
SPDCL	20530.91	21639.60	(1108.68)	7645.12	8,144.03	-498.91
All Licensees	<b>89934.43</b>	<b>89934.43</b>	0.00	33504.56	33,504.57	0.00

#### **F) NON-CONVENTIONAL ENERGY (NCE) SOURCES (RENEWABLE ENERGY SOURCES):**

**Table 25 : Non-Conventional Energy (NCE) sources: Details for FY 2013-14**

Station	Energy (MU)	Power Purchase Cost for FY2013-14 (₹ Crs.)	Total charges per Unit (₹/kWh)
NCE – Biomass	1401.60	578.86	4.13
NCE – Bagasse	133.75	44.27	3.31
NCE – Municipal Waste to Energy	0.00	0.00	0.00
NCE – Industrial Waste to Energy	69.89	32.50	4.65
NCE – Wind Power	1227.01	558.46	4.55
NCE – Mini Hydel	60.09	14.06	2.34
NCE – NCL Energy Ltd.	11.57	2.06	1.78
NCE-Others	569.33	313.13	5.50
<b>Total</b>	<b>3473.24</b>	<b>1543.34</b>	<b>4.44</b>

#### **G) POWER PURCHASE COST ADJUSTMENT FOR RENEWABLE POWER PURCHASE OBLIGATION (RPPO):**

155. As per the orders of the Commission, every distribution licensee is obliged to purchase 5% of its total energy purchase from renewable sources. As shown in the table below, APCPDCL, APEPDCL and APNPDCL shall have estimated deficits (less than 5% by such MU as shown) in their purchase of energy from renewable sources, while APSPDCL shall have a surplus.
156. The DISCOMs with deficit shall purchase Renewable Energy Certificates (RECs) from Market sources (including the surplus from APSPDCL), i.e., REC debit, where as APSPDCL shall be given REC credit for the surplus in Renewable energy beyond the required 5% RPPO. The market price of Renewable energy has been taken as ₹ 1.50 per unit for Non-Solar REC traded in the Indian Energy Exchange and Power Exchange Limited during December, 2012.

However, prevailing market price during the year of actual purchase shall be used for real time settlement for accounting and audit purposes.

157. The Licensees are directed to purchase the RECs as stipulated above since provision has been made in this order for such purchase by CPDCL, EPDCL & NPDCL and corresponding credit has already been given to SPDCL.

**Table 26 : Power Purchase Cost Adjustment for RPPO - FY 2013-14**

Licensee	Allocation from Renewable Energy sources	Renewable Energy purchase Required	Surplus / (Deficit)	Power Purchase Cost before adjustment	Power Purchase cost after adjustment	Surplus / (Deficit)
	(MU)	(MU)	(MU)	₹ Crs.	₹ Crs.	₹ Crs.
CPDCL	1389.45	2024.94	(635.49)	15,034.14	15129.47	(95.32)
EPDCL	458.61	757.01	(298.40)	5,741.67	5786.43	(44.76)
NPDCL	502.73	632.79	(130.06)	4,584.73	4604.24	(19.51)
SPDCL	1332.44	1081.98	250.46	8,144.03	8106.46	37.57
All Licensees	3683.23	4496.72	(813.49)	33,504.57	33626.6	122.02

#### **H) ESTIMATED POWER PURCHASE COST FROM IPPS USING RLNG**

158. The Commission has provided for procurement of 2431.21 MU from IPPs using RLNG. The Commission has estimated that this quantity can be procured at an average fixed cost of ₹ 0.99/unit and an average variable cost of ₹ 8.97/unit. The overall average cost /unit is estimated to be ₹ 9.96/unit and the total cost is estimated to be ₹ 2422.47 Crs. for this source for four months during FY 2013-14.

#### **I) ESTIMATED POWER PURCHASE COST FROM MARKET SOURCES**

159. The energy purchases from Medium Term (MT) sources like Corporate Power and KSK Mahanadi proposed by licensees in the ARR filings have been treated as Market Sources. However, the rates and quantum of energy shall be taken as per the Power Purchase Agreements entered into between these generating companies and the distribution licensees and approved by the Commission.
160. Commission has followed the relevant provisions of the Electricity Act, 2003 as extracted below and the prevailing market conditions while considering energy purchases by Distribution licensees from Market Sources (Short Term Sources), for a period not exceeding one year, in the current power shortage situation prevailing in the State.

*“62. Determination of tariff - (1) The Appropriate Commission shall determine the tariff in accordance with the provisions of this Act for*

- (a) Supply of electricity by a generating company to a distribution licensee;*

*Provided that the Appropriate Commission may, in case of shortage of supply of electricity, fix the minimum and maximum ceiling of tariff for sale or purchase of electricity in pursuance of an agreement, entered into between a generating company and a licensee or between licensees, for a period not exceeding one year to ensure reasonable prices of electricity.”*

161. Accordingly, in the present condition of shortage of supply of electricity, the Commission shall fix maximum ceiling of tariff for purchase of electricity in pursuance of an agreement, entered into between a generating company and a licensee or between licensees, for a period not exceeding one year.
162. The Distribution licensees, in their ARR filings, have indicated purchase of 13753.27 MU from short term sources at weighted average rate of ₹ 5.11 per unit. Subsequently, DISCOMs vide their Letter No. CGM (Comml) /SE(IPC)/DE(RAC)/D.No. 5004/13, Dt: 26-03-2013, have submitted additional information on short term purchases extract of which is given below:

*“The DISCOMs have received the data relevant to short term purchase cost, through bids in the short term tenders. Even the exchange rates of short term have been phenomenally varied than the price arrived earlier. As per the said data for the short term power rates purchases have been quoted between Rs 5.14/ unit to Rs 7.98/ unit. Therefore, the Hon’ble Commission is required to factor the same in the Retail supply tariff order to be passed. Further, it is to submit that the quantum of power to be made available has been arrived at on the data of 2012-13. Therefore, the quantum of power availability has to be arrived considering the unrestricted supply besides growth in demand. The aforesaid information could not be submitted earlier, as those were received at a later point of time i.e., after public hearings.”*

163. Commission has attempted to estimate the cost of market purchases for the purpose of calculation of cost of such power purchase as part of determination of tariff. The Commission has taken note of prevailing market prices and the likely trends during the tariff year FY 2013-14 in the light of the letter No. CGM (Comml) /SE(IPC)/DE(RAC)/D.No. 5004/13, Dt: 26-03-2013. After considering the above factors, the Commission has considered to compute the power purchase cost of the approved quantity of market purchases in the present tariff order at an average price of ₹ 6/unit.

#### **MAXIMUM CEILING ON PURCHASE PRICE THROUGH SHORT TERM SOURCES**

164. The Commission has permitted purchase of 10094.66 MU from market sources during FY 2013-14 which includes both medium term and short term sources.



All purchases from market shall be subject to a maximum ceiling price of ₹6.11/unit.

165. The Distribution licensees are directed to follow the guidelines issued by the Government of India u/s 63 of the Electricity Act, 2003 or the guidelines of Commission i.e., web based competitive procurement, for all purchases from Short Term Sources.

## CHAPTER-V REVENUE REQUIREMENT

### INTRODUCTION

166. In this chapter, the Commission has analyzed the Aggregate Revenue Requirement filed by the Licensees in the light of the objections/suggestions raised by various persons in writing and during public hearings on revenue requirement and determined the Aggregate Revenue Requirement for FY 2013-14.

### AGGREGATE REVENUE REQUIREMENT (ARR)

167. The Aggregate Revenue Requirement (ARR) (the revenue required to meet the supply cost, for the supply of the forecasted sales volume) has been estimated and filed by the Licensees for FY 2013-14 at ₹ 49187.45 Crs. The details of the estimated revenue requirement as filed by the Licensees are given in Table 27.

**Table 27 : Revenue Requirement as per Filings for FY 2013-14 (₹ Crs.)**

ARR/Cost Item	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Distribution	1699.70	809.79	890.88	1273.30	4673.67
Power Purchase	17927.82	7767.89	5690.30	10752.37	42138.40
Transmission	649.53	228.35	222.85	325.09	1425.83
SLDC Charges	19.18	6.74	6.58	9.60	42.11
PGCIL Charges	199.44	68.41	68.72	96.43	433.00
ULDC Charges	12.52	4.29	4.31	6.05	27.18
Interest on	194.98	76.87	48.60	86.16	406.62
Supply Margin	11.69	5.62	7.23	15.38	39.92
Other expenses	0.00	0.15	0.58	0.00	0.73
<b>Revenue</b>	<b>20714.87</b>	<b>8968.13</b>	<b>6940.06</b>	<b>12564.40</b>	<b>49187.45</b>

### OBJECTIONS /SUGGESTIONS ON REVENUE REQUIREMENT

168. **Objections/Suggestions regarding Bank Interests:** Association for Development of Electronics Complex questioned, whether the Bank interests are also added in the estimations. Bank interests on bad debts are the DISCOMs inefficiency hence they have to be borne by DISCOMs only.

**Licensee's Response:** The Distribution cost as approved in the MYT tariff order 2009-10 to 2013-14 approved by APERC are considered in the ARR of the FY 2013-14.

**Commission's View:** The distribution cost approved by the Commission in the MYT order for 2009-10 to 2013-14 includes the element of bank interest. No interests on bad debts are included in MYT order.

169. **Objections/Suggestions regarding Finance Short-Term Power Purchase:** Sri. Gali Muddu Krishnama Naidu, M.L.A, Sri. M. Narasimhulu, M.L.A, Sri. R. Prakash Reddy, M.L.A & others have stated that, the Licensees are indulging power purchase at higher cost and supplying the same to agriculture and Industry incurring a burden of ₹ 3-10 per unit. The higher power purchase cost has led to accumulation of debt to the tune of ₹ 23,245 Crs. with the Discom. This reflects the inability of GoAP in handling the DISCOMs and suggested for improvement in professional management of DISCOMs without the political intervention.

**Licensee's Response:** Due to increase in demand and non availability of energy from hydel stations, DISCOMs were constrained to procure the power from short term sources through transparent tender procedure. The effort was to lessen the demand supply gap to the extent possible.

**Commission's View:** The accumulation of debt with the DISCOMs will be examined when they file the petition for true-up of expenses for completed financial years as per the Regulations.

170. **Objections/Suggestions regarding payment of interest on CSD:** M/s AP Spinning Mills Association & others have raised an objection with regard to, Interest on Security Deposit has to be paid at 9% instead of @6%.

**Licensee's Response:** Instructions were already issued to pay interest on consumer security deposits @9.5% per annum (as per the revised rate of interest notified by the Reserve Bank of India) from 14<sup>th</sup> February, 2012 onwards till 31<sup>st</sup> March 2012 by adjusting the same in the future.

**Commission's View:** Commission is happy to note that the Licensees are abiding by the Commission's directions and RBI policy, which at the present is resulting in the consumers receiving 0.5% more than the percentage sought above by the objector.

171. **Objections/Suggestions regarding Deviations in Distribution Cost: M/s AP Ferro Alloys Association & others**, have stated that, the deviations should be approved and gains and losses should be shared with the consumers on a yearly basis.

**Licensee's Response:** The Licensee will consider the Distribution cost which is approved in the MYT Tariff order 2009-14 throughout the control period. However, the deviations from the approved Distribution cost will be filed in True ups as per the Regulation 4/2005 at the end of control period.

**Commission's View:** The Commission will take up true-up mechanism after the completion of the control period as envisaged in the relevant regulations.

172. **Objections/Suggestions regarding True-up mechanism : M/s AP Ferro Alloys Producers' Association & others** have raised an objection that, the truing up for the years up to FY 2011-12 should be carried out along with the ARR and tariff determination for the financial year 2013-14. The Commission should conduct a comprehensive true-up exercise in respect of all financial years up to FY 2011-12 without any delay and its effect should be passed in tariff order for FY 2013-14.

**Licensee's Response:** The True-ups petition for the years from the years 2006-07 to 2008-09 are already submitted to Hon'ble Commission for sharing of Gains/Losses to consumers as per Regulation 4 of 2005. The True-up petition for the years 2009-10 to 2011-12 will be submitted to the Hon'ble Commission after the end of the second control period 2009-10 to 2013-14 as per regulation 4 of 2005.

**Commission's View:** The Commission will take up true-up mechanism for FY 2009-10 to FY 2011-12 at the end of the current control period as envisaged in Regulation No.4 of 2005.

173. **Objections/Suggestions regarding True-up mechanism:** The net deficit/surplus is notified in the ARR proposals (form 9) under Para 3.17.1 for the years from 2008-09 to 2013-14. These are ARR estimates, but where as whether true-up exercise is done year on to year and the deficit carried forward to the next year is not noted. This indicates that these estimates are projected merely to enhance the tariff rates for the convenience of the

licensee and the government, but not to serve the consumers based on cost of service model or otherwise.

**Licensee's Response:** True-up proposals will be submitted.

**Commission's View:** Since the retail tariffs during the current control period are being determined on year on year basis, the historical information furnished in the format of form 9 of the filings have no effect on the fixation of retail tariff rates in the tariff order for FY 2013-14. However, the Commission will take up true-up mechanism for FY 2009-10 to FY 2011-12 at the end of the current control period as envisaged in Regulation No.4 of 2005.

174. **Objections/Suggestions regarding Security Deposit:** Sri. Meesala Basava Punnaiah, M/s Repalle Consumers' Council & others have raised an objection that, the collection of 3 months consumption charges in the name of Security Deposit is not correct and appealed to collect 2 months consumption charges as Security Deposit.

**Licensee's Response:** As per the clause 4 of "Regulation No.6 of 2004" of the Hon'ble APERC, all the LT consumers shall at all times maintain with the licensee an amount equivalent to consumption charges (i.e., demand/fixed charges and energy charges etc., as applicable) of three months wherever bi-monthly billing is in vogue and two months' charges in the case of monthly billing cycle, as security.

**Commission's View:** As per the existing regulation, the LT consumers shall have to maintain an amount equivalent to consumption charges for three months, wherever bi monthly billing is in practice and two months of consumption charges wherever monthly billing is in place. The Commission directs the licensees that the above regulation has to be followed strictly. If due to any reason, if the billing pattern is changed from bi-monthly to monthly for LT consumers, the licensees can retain security deposit to the extent of two months' consumption charges only and refund, by adjustment in future bills, any amounts in excess of what has been prescribed in the regulation.

## COMMISSION ANALYSIS OF REVENUE REQUIREMENT

### POWER PURCHASE COST

175. The Commission has conducted a detailed analysis of power purchase cost for FY 2013-14 in Chapter-IV and determined the power purchase cost for each licensee for FY 2013-14. The summary is reproduced in Table 28.

**Table 28 : Power Purchase Cost for FY 2013-14 (₹ Crs.)**

Power Purchase Cost	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensee(s)	17927.82	7767.89	5690.30	10752.37	42138.40
Approved by the Commission	15129.47	5786.43	4604.24	8106.46	33626.59

### PGCIL AND ULDC EXPENSES

176. The Commission has found that the cost estimated for PGCIL services (inter State transmission charges to be paid by licensees in connection with the power evacuation from central generating stations) are on high side. The costs were revised downwards in keeping with the guidelines issued to licensees. As per this computation, the charges payable to PGCIL are lower by ₹13 Cr. The details are given in Table 29.

**Table 29 : PGCIL and ULDC Cost for FY 2013-14 (₹Cr.)**

PGCIL and ULDC Cost	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensee(s)	211.96	72.75	73.03	102.48	460.18
Approved by the Commission	208.28	66.44	71.76	100.70	447.18

### INTEREST ON CONSUMER SECURITY DEPOSITS

177. The Commission has observed that the cost estimated for interest on consumer security deposit (to be paid by Licensees to the consumers on the consumption deposits of consumers held by Licensees) is on higher side. This cost item is revised downwards after due verification with the annual accounts of Licensees of FY 2011-12. The revised interest cost on consumer security deposits is assessed at ₹ 383.48 Crs., which is lower (by ₹23.14 Crs.) compared with the filing estimate of ₹406.62 Crs. The details are given in Other Costs. (Table 30)

**Table 30 : Interest on Consumer Security Deposit for FY 2013-14 (₹ Crs.)**

Interest on C.S.D	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Filed by Licensee(s)	194.98	76.87	48.60	86.16	406.62
Approved by the Commission	180.37	70.98	41.47	90.67	383.48

**OTHER COSTS**

178. All other costs are approved by the Commission as per the filings made by the Licensees as these costs are as per the approval given by the Commission for FY 2013-14 as per the MYT regulatory framework.

**REVENUE REQUIREMENT FOR FY 2013-14**

179. In the light of the above analysis, the Commission has determined the revenue requirement for FY 2013-14 at ₹ 40639.50 Crs., which is lower ( by ₹ 8547.95 Crs.) compared with ₹ 49187.45 Crs. revenue requirement filed by the Licensees. The details of Commission approved revenue requirement for FY 2013-14 are given in Table 31.

**Table 31 : APERC Approved Requirement for FY 2013-14 (₹ Crs.)**

ARR/Cost Item	Licensee				TOTAL
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Distribution	1699.70	809.79	890.88	1273.30	4673.67
Power Purchase	15129.47	5786.43	4604.24	8106.46	33626.60
Transmission	649.53	228.35	222.85	325.09	1425.82
SLDC Charges	19.18	6.74	6.58	9.60	42.11
PGCIL Charges	195.76	62.15	67.45	94.65	420.00
ULDC Charges	12.52	4.29	4.31	6.05	27.18
Interest on Consumer Security Deposits	180.37	70.98	41.47	90.67	383.48
Supply Margin	11.69	5.62	7.23	15.38	39.92
Others expenses	0.15	0.00	0.58	0.00	0.73
<b>Revenue Requirement</b>	<b>17898.36</b>	<b>6974.35</b>	<b>5845.59</b>	<b>9921.20</b>	<b>40639.50</b>

## CHAPTER-VI COST OF SERVICE

### INTRODUCTION

180. Based on the licensee-wise aggregate revenue requirement determined in the preceding chapter and in the light of the objections / suggestions concerning Cost of Service, the Commission has determined in this chapter, the Cost of Service for different consumer categories for FY 2013-14.

### OBJECTIONS /SUGGESTIONS ON COST OF SERVICE

181. **Objections/Suggestions regarding CoS Methodology:** The objector has suggested that :
- a. The Commission should continue the traditional approach of calculating the CoS through embedded cost methodology instead of introducing a new methodology.
  - b. The Commission should work out the Cost of Service for each consumer category separately.

**Licensee's Response:** The Hon'ble Commission has been adopting Embedded Cost of Service method for determining the category wise CoS and Tariff. In determination of category wise Tariff for FY 2013-14, the licensee observed that Cost of Service of a category under existing Embedded CoS method and with  $\pm 20\%$  is not commensurate with the proposed tariffs of certain categories. The licensee did not face this issue in the years prior to FY 2010-11 as there were no major tariff revisions proposed by the Licensee. Hence, for the year 2013-14, the licensee would like to propose tariff increase and humbly request the Hon'ble Commission to adopt average cost of supply as per the NTP while fixation of tariffs for each category. Clause 8.3.2 of National Tariff Policy states that "For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the SERC would notify roadmap within six months with a target that latest by the end of year 2010-2011, tariffs are within  $\pm 20\%$  of the average cost of supply. The road map would also have intermediate milestones, based on the approach of a gradual reduction in cross subsidy".

Licensee has put all efforts while proposing tariffs to be within  $\pm 20\%$  of the average cost of supply wherever it is possible. In case, if the Hon'ble



Commission determines the tariff based on Category wise CoS, then the licensee requested the Hon'ble Commission not to determine the tariffs based on "CoS Plus or Minus 20%" limit as the clause 8.3.2 of National Tariff Policy (NTP) as the clause refers to average CoS not category wise CoS.

**Commission's View:**

- The Commission has decided to continue the practice of computing CoS based on embedded cost method for FY 2013-14.
- The computation of CoS for each consumer category is possible only on the availability of information with regard to class load factors and coincident factors.

182. **Objections/Suggestions regarding Licensees' computations:** The objectors inter-alia raised the following issues relating to CoS.

- There are substantial differences in CoS for a category among four Licensees.
- The CoS for certain categories remain equal. How this is possible?
- Why the CoS for temporary category in LT is substantially lower.
- Certain CoS information has not been filed as expected in the form.
- The cross subsidies computed using average realization instead of marginal cost tend to be bloating.

**Licensee's Response:** Cost of Service varies with the consumer mix of different categories depending on their sales and load. Consumer mix of CPDCL is entirely different to that of SPDCL. Cost of service depends on sales, coincident demand, class load factor and expenditure allocated to that category. The Form-13 in Page no. 294 of CPDCL ARR filing was submitted as additional information to APERC vide Lr. No. CGM (Comml & RAC)/SE(IPC)/DE(RAC)/D.No.3270/13, Dated 15-01-2013 and was also kept in Licensee's website. As per National Tariff Policy, the Cross Subsidy Surcharge has to be determined based on avoided cost methodology. The licensee has adopted the methodology stated in the National Tariff Policy for determination of the cross-subsidy surcharge. Cost of Service depends on sales, coincident demand, class load factor and expenditure allocated to that category.

**Commission's View:** As pointed out by the Licensees, embedded cost of service to a particular category of consumers depends on several factors and

allocation criteria adopted. As explained by the Licensees, there is bound to be a difference in CoS of a particular category across different DISCOMs.

#### **COST OF SERVICE CALCULATIONS FOR FY 2013-14**

183. The Commission has computed the Cost of Service for each licensee for different consumer categories for FY 2013-14 based on embedded cost method. In this method, the entire ARR (Cost) for FY 2013-14 is allocated among consumer categories based on contribution of each consumer category to peak load and utilization of loads by each category of consumers during FY 2013-14.
184. The ARR for FY 2013-14 has been allocated among different consumer categories based on the evening peak and contribution of coincident factors for each category of consumers. This cost differs for each consumer category on account of factors such as variations in contribution to peak, voltage of supply, load factor, contracted capacity etc.
185. The Commission is conscious of the limitation inherent in this exercise that the proposed tariff cannot be strictly related to class average cost for FY 2013-14, on account of significant volumes of market purchases proposed to be carried out during FY 2013-14 for which break up of total cost into fixed and variable cost is not readily available. Further, the imposition of R & C measures distorts the consumer's class load factor thus effecting the cost allocation to different consumer categories.
186. The cost of service worked out for each consumer category is being used for the purpose of observing the cost and cross subsidy amount to make decisions on tariff setting for different consumer categories and to determine the tariff to recover the approved ARR for FY 2013-14 in respect of each Licensee. The CoS computed for each consumer category is given in Table 32 & the details are given in Annexures K<sub>1</sub>-K<sub>5</sub>.

**Table 32 : Cost of Service for FY 2013-14 (₹/kWh or kVAh)**

<b>CONSUMER CATEGORY</b>	<b>EPDCL</b>	<b>SPDCL</b>	<b>CPDCL</b>	<b>NPDCL</b>	<b>ALL DISCOMS</b>
<b>LT</b>					
LT Cat I - Domestic	6.05	6.13	6.48	6.73	6.33
LT Cat II - Non-Domestic/Commercial	6.11	6.30	6.56	7.30	6.50
LT Cat III - Industry	5.49	5.46	5.89	6.35	5.70
LT Cat IV - Cottage Industries	5.64	5.46	5.79	6.17	5.66

CONSUMER CATEGORY	EPDCL	SPDCL	CPDCL	NPDCL	ALL DISCOMS
LT Cat V - Agriculture	4.83	4.91	4.71	4.87	4.81
LT Cat VI - Street Lighting & PWS	7.10	6.80	6.40	7.43	6.79
LT Cat VII - General Purpose	7.07	6.78	6.41	7.44	6.80
LT Cat VIII - Temporary	7.21	6.76	6.65	6.56	6.83
<b>HT</b>					
HT Cat I - Industry - General (11 kV)	5.40	5.36	5.15	5.52	5.27
HT Cat I - Industry - General (33 kV)	4.28	4.18	4.25	4.43	4.24
HT Cat I - Industry - General (220/132 kV)	4.06	3.99	3.98	4.13	4.02
HT Cat II - Industry - Other (11 kV)	5.76	5.21	5.72	5.05	5.59
HT Cat II - Industry - Other (33 kV)	4.53	4.64	4.93	5.10	4.84
HT Cat II - Industry - Other (220/132 kV)	4.17	0.00	4.27	7.24	4.25
HT Cat IV - Irrigation , Agriculture & CPWS	3.45	4.89	4.17	4.98	4.37
HT Cat V - Railway Traction (EHT)	4.81	4.62	4.82	4.92	4.77
HT Cat VI – Townships & Residential Colonies	5.52	6.01	5.74	5.36	5.61
HT Rural Co-operatives	3.97	4.35	0.00	4.03	4.09
HT Temporary	4.46	0.00	4.76	0.00	4.52
<b>TOTAL</b>	<b>5.20</b>	<b>5.24</b>	<b>5.20</b>	<b>5.51</b>	<b>5.25</b>

## CHAPTER-VII REVENUE AND REVENUE GAP

### INTRODUCTION

187. The endeavor of any tariff exercise is to recover the revenue requirement through receipts/revenue from various streams so that there is no revenue deficit and the Licensees are able to meet the expenditure in full.

### REVENUE FROM TARIFFS AND NON-TARIFF INCOME

188. The revenue to Licensees will be in two ways, consumption charges (energy, fixed, minimum and customer charges) and Non-tariff income (recoveries from theft of power or other malpractices, interest on income and other miscellaneous receipts).

### REVENUE FROM TARIFFS

189. The Commission has recomputed the revenue from tariffs at the Licensee proposed tariff rates, for Commission modified sales volumes for different consumer categories as enumerated in Chapter-II. The filed and revised revenue estimates are given in Table 33.

**Table 33 : Revenue from Proposed Tariff for FY 2013-14 (₹ Crs.)**

Revenue from Tariffs	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Estimated by Licensees	20185.83	8897.52	3986.40	10085.07	43154.81
Estimated by APERC	18175.40	8190.52	3518.91	9526.17	39411.00

### NON -TARIFF INCOME

190. The Commission has examined the non-tariff income figures indicated in the annual account of Licensees and determined the non-tariff income as detailed in Table 34. The determined non-tariff income has been apportioned to different consumer categories in proportion to their contribution to total consumption charges.

**Table 34 : Non-Tariff Income Estimates for FY 2013-14(₹ Crs.)**

Non Tariff Income	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Estimated by Licensees	40.89	49.51	21.20	36.02	147.62
Approved by APERC	98.20	90.67	55.30	83.57	327.74

## **OBJECTIONS /SUGGESTIONS ON FINANCES OF THE DISCOMs**

191. **Objections/Suggestions regarding Arrears from Government Departments:** Sri D. Ramaswami Reddy & others have raised an objection that, the DISCOMs are not collecting the revenue arrears from the Government offices, Corporations, municipalities and panchayats in full. Government has to pay electricity bill arrears of local bodies and Government departments.

**Licensee's Response:** CPDCL and NPDCL has replied that it is taking all steps to collect revenue arrears from the Government offices. EPDCL has replied that the suggestions are noted. SPDCL has replied that Continuous correspondence is being made every month for realisation of accumulated arrears. During Sep'12 an amount of ₹ 2262.49 lakhs were realized through APPCC towards arrears of Municipalities and an amount of ₹ 180.67 lakhs were received towards Minor Panchayaths arrears. During 10/12 an amount of ₹7661.12 lakhs & ₹174.93 lakhs were realized towards clearance of accumulated arrears due from Minor Panchayaths. However, every maximum possible efforts are being taken for realization of accumulated arrears due from all Govt., Dept. including local bodies in order to improve the APSPDCL cash inflows. Further all the HODs of Govt., of A.P are being addressed regularly every month from the Corporate Office / SPDCL / Tirupati and instructions are also issued to SEs/Operation & SAOs of circles to contact the District level officers for realization of C.C.Charges.

**Commission's View:** Recovery of arrears from Government departments, particularly those dealing with essential services like water supply, medical, street lights etc., is always a difficult proposition. Resorting to disconnection as per the Terms & Conditions of Supply is a right of the Licensees that can be invoked, but disconnection of such services is always associated with practical problems and inconvenience to the citizens. This is a sensitive issue and has to be addressed taking all implications into account. Commission would like to put it on record that the Licensees have to make their all out efforts and persuasion to ensure timely collection of dues and electricity consumption charges from concerned wings of the Government Departments / Local Bodies without allowing arrears to build up.

192. **Objections/Suggestions regarding Financial Performance of DISCOMs:** Sri Sivarama Krishna has stated that, the DISCOMs also shall try to improve up on their poor financial performance and the Hon'ble Commission also shall

impress up on the GoAP., to pay the dues to the DISCOMs to bail them out from the existing financial crises.

**Licensee's Response:** The licensees are working on improving the financial health. The Licensees regularly pursuing and getting the most of the dues from the Govt. The tariff proposals filed by the licensees are expected to go a long way in improving their financial health.

**Commission's View:** The Licensees should make all efforts to collect the electricity dues from the Government Departments. Commission directs;

*All licensees to submit a monthly report to the Commission on collection of arrears, department wise from different Government departments in the following format.*

Name of Department :

Month:

Month	Opening Balance of Arrears from Government Departments (O/B)	Amount accrued as arrear during the Month	Amount collected during the Month	Closing Balance of Arrears at the end of the Month (C/B)	Reasons for non collection

193. **Objections/Suggestions regarding Non-Tariff Income:** Sri. R.H.N. Sharma has stated that, the amount from recoveries from theft of power and malpractices is not shown in page 61 of ARR filings of APEPDCL stating that it is not appropriate to consider these recoveries under NTI. But the amounts realised from theft and malpractices for FY 2011-12 and 2012-13 up to September were shown at page 136 of ARR. It is not understood these amounts are not covered under NTI. Further, suggested to fix the Delayed Payment Surcharge to ₹ 50/- irrespective of the categories and Reconnection fees for LT over head line services to ₹ 100/-. The EPDCL has anticipated Reconnection fees ₹ 13.60 Crs., for 2012-13 and ₹ 19 Crs., for 2013-14. Is EPDCL encouraging the defaulters? The EPDCL has anticipated LT application fees ₹ 0.65 Crs., for FY 2012-13 and ₹ 0.58 Crs., for FY 2013-14. Is EPDCL discouraging the public not to take power supply?

The electric poles are being misused by various private organisations for their advertisements without any permission of the company. The management of EPDCL is not paying the attention to prevent the same. The company is losing legitimate non-tariff income.

**Licensee's Response:** Based on past trend, increase in R.C. fees collections is projected. As the number of new connections issued in LT is slightly on a decreasing trend, slight reduction is projected in LT application fees.

The data furnished at page 61 of ARR filing book is projections for FY 2012-13 & FY 2013-14. Recoveries from theft of power are not included in the projections as the ARR filing forecasts are made based on the assumption that there will be no theft or malpractice. Whereas the data furnished at page no. 136 of ARR filing book pertains to previous 18 months actuals (2011-12 & 2012-13 up to Sep.). This data is provided in order to inform the public/objectors about the actual performance of the Licensee. Regarding Delayed Payment Surcharge, the suggestions are noted. With respect to electric poles, the issue will be examined.

**Commission's View:** The response of the Licensee is satisfactory.

194. **Objections/Suggestions regarding meeting the deficit:** Sri. M. Thimma Reddy, Sri. V. Venkataramaiah & others, have questioned that, how DISCOMs are bearing the expenditure over and above the approved ceiling price of ₹ 5.50 per unit under short term sources and costs on account of additional agriculture consumption over and above the approved values.

**Licensee's Response:** In the ARR filing 2013-14 Hon'ble commission was requested to devise an appropriate mechanism to recover the additional cost of additional agriculture sales over and above the tariff order target either through FSA or true-up mechanism.

**Commission's View:** The responsibility of the Commission is to show the licensees, the ways and means of recovering the approved Aggregate Revenue Requirement (ARR) through revenue and charges, to the extent of energy quanta specified in the relevant tariff order. Any deviations, therein, will have to be trued up in accordance with the provisions of the relevant regulations specified by the Commission.

195. **Objections/Suggestions regarding additional recoveries by DISCOMs:** DISCOMs' filings (Form - 9) show that by the end of 2012-13 outstanding deficits of all the four DISCOMs in the state will be ₹ 36,541Cr. After taking into account the subsidy provided by the state government and FSA approved by the Commission as well as FSA proposals pending before the Commission

the outstanding, uncovered deficit stands at ₹ 8485 Crs. There is no explanation how the DISCOMs are going to handle this deficit. The DISCOMs are earning additional income from cross subsidy surcharge announced by the Commission, from fines under R&C measures and from FSA. But these figures are not mentioned by the DISCOMs in their filings. This will help to have a clear picture of financial problems facing these licensees.

**Licensee's Response:** CPDCL has replied that an amount of ₹4928 Crs from FY 2009-10 to 2011-12 and FY 2012-13 (1<sup>st</sup> quarter approved and 2<sup>nd</sup> & 3<sup>rd</sup> Quarter filed) needs to be collected by way of FSA. EPDCL has replied that as per the Clause 10(5) of the Regulation 4 of 2005, Terms and Condition for Determination of Tariff for Wheeling and Retail sale of electricity,

*The Distribution Licensee shall be eligible to claim variations in "uncontrollable" items in the ARR for the year succeeding the relevant year of the Control Period depending on the availability of data as per actuals with respect to effect of uncontrollable items.*

The petition for sharing gains and losses for the first control period 2006-2009 has been filed by the Licensee before the Hon'ble Commission. For the second control period 2009-14 the Licensee will file after the completion of the second control period as per the Regulation.

SPDCL has replied that an amount of ₹2286 Crs., from FY 2010-11 to 2011-12 and FY 2012-13 (1<sup>st</sup> quarter approved and 2<sup>nd</sup> & 3<sup>rd</sup> Quarter filed) needs to be collected by way of FSA.

**Commission's View:** Any additional revenues / costs accrued to the DISCOMs on account of regulated business over and above the approved ARR by the Commission in the relevant tariff years will have to be adjusted in accordance with the Regulations at the end of the control period. The DISCOMs will have to bring up all these issues, by way of petition before the Commission for this purpose.

196. **Objections/Suggestions regarding releasing of Additional Subsidy:** M/s Federation of AP Chambers of Commerce & Industry, M/s India Cements have stated that, the Hon'ble Commission should determine cost based tariffs and if the government wants to subsidize a category of consumers, it might do so based on the provisions of the Act and the Tariff Policy. The Objector strongly requested the Commission to direct the Government to release the additional subsidy, with carrying cost at average interest rate of CPDCL, or in



case of default by Government, it should apply the Commission Determined Tariffs which are based on costs.

**Licensee's Response:** The approved ARR for FY 2012-13 was ₹ 34343 Crs., upon which a Government subsidy of ₹ 5532 Crs., was given covering up to 16.1% of the total ARR.

For FY 2013-14, the projected ARR is ₹ 49189 Crs. The proposed government subsidy for this period is ₹ 5885.02 Crs., The licensees have also proposed tariff hike on consumer categories like Lift Irrigation, Public Water, Street Lighting etc. which are managed by the Government. The additional revenue projected to be realized from these categories due to the tariff hike is ₹ 1022 Crs., effectively increasing the Government subsidy to ₹ 6906 Crs., The effective Government subsidy covers 14% of the ARR proposed for FY 2013-14.

Hon'ble APERC will fix the Tariffs after determining the Government subsidy as agreed upon by the Govt., and arriving cross subsidy to be borne by the other subsidizing category of consumers the approved sales volume and the category wise cost of service in each year of the Tariff Order. However, if the sales volume is increased in any of the domestic or agriculture categories, it will not affect any increase in tariff to the other subsidizing category of consumers. Then there is no question further burdening the cross subsidizing consumers in the name of cross subsidy.

**Commission's View:** In every Tariff Order, Commission is advising the State Government to pay the monthly subsidy, intended by it u/s 65 of Electricity Act, 2003, to the DISCOMs, in advance. The Commission is also cautioning the DISCOMs, that if there is any failure on the part of the Government to provide the Subsidy in advance, the DISCOMs can revert to full cost recovery tariff schedule specified by the Commission.

197. **Objections/Suggestions regarding Subsidy:** Sri. Malyadri & others have stated that, the Government budget for agriculture subsidy has reduced from 8% in 2004 to 3%.

**Licensee's Response:** We will review the same to the extent possible.

**Commission's View:** The issue is not within the purview of the Commission.

198. **Objections/Suggestions regarding Projecting Tariff Schedule without Government Subsidy: M/s Ferro Alloys Producers' Association & others** have stated that, it is the statutory requirement that the Petitioner had to project a Tariff Schedule, independent of the Government Subsidy and then the Commission Determined Tariff (CDT) had to be determined by this Hon'ble Commission.

Hence, it is prayed that this Hon'ble Commission may be pleased to direct the Petitioner to project a tariff schedule independent of the Government Subsidy and determine the tariff accordingly.

**Licensee's Response:** Licensees have submitted ARR filings and tariff proposals as per Regulation 4 of 2005 and the formats determined by APERC. Licensee have also determined average CoS and also through embedded cost method. CPDCL has estimated the sales forecast for the FY 2013-14 and calculated the energy requirement based on the approved losses for FY 2013-14 by APERC. The energy availabilities and costs for FY 2013-14 are taken from various generators and Power purchase cost is arrived for FY 2013-14. Thus total ARR for 2013-14 is arrived by adding network cost and other costs. Based on the sales and existing tariffs revenue for FY 2013-14 is projected. The revenue gap is arrived with the existing tariffs. The tariffs are revised based on the cost of service to bridge the revenue gap. The entire tariff revision is independent of the Govt. subsidy.

**Commission's View:** The suggestion of the objector is welcome. The Commission has been specifying Full Cost Recovery Tariff Schedule (FCRTS) in every tariff order and informing the same to the Government stating that the Government may send a communication to the Commission u/s 65 of the Act. If the DISCOMs, in their ARR Filings, propose Full Cost Recovery Tariffs (pre-Government intervention), it would add great value to the ARR filings by the DISCOMs.

199. **Objections/Suggestions regarding Adjustment of Subsidy: M/s Ferro Alloys Producers' Association & others** have stated that, no adjustment for higher subsidy from GoAP for higher agriculture sales has been envisaged in the past orders or current ARR and Tariff Petition for FY 2012-13. The subsidy provision by GoAP should be considering the actual consumption of all subsidising categories rather than the approved consumption levels.

**Licensee's Response:** The Licensee has been requesting the Hon'ble Commission for the last two years to consider the truing up of actual agriculture sales and distribution Losses. The Discom has also filed during the year 2013-14, that the actual agricultural sales have been much higher than the approved sales and the additional power requirement due to higher losses and additional agricultural sales will have to be purchased at a marginal cost of ₹ 10.00/Unit or as applicable by the licensee. The above cost is not been considered/ captured while determining the FSA due to non inclusion of cost in formula as per the existing regulation. Similarly, Regulation 4 of 2005 does not cover the mechanism to recover additional cost incurred by the Licensee. By not recognizing this huge cost by the Hon'ble Commission, Licensees are losing around 10 times of their current Return of Equity. In light of the above, Licensee requested the Hon'ble Commission to devise an appropriate mechanism to recover the additional cost either through FSA or true-up mechanism.

**Commission's View:** The Licensees are expected to strictly adhere to the tariff order quantities to avoid revenue loss due to sales beyond approved quantities for agriculture.

200. **Objections/Suggestions regarding DPS and Re-Connection Fee:** Sri. Meesala Basavapunnaiah, M/s Repalle Consumers' Council have stated that, delayed Payment Surcharge may be enhanced to ₹50/- irrespective of the categories. Reconnection fees to be enhanced for LT over head line services to ₹ 100/-.

**Licensee's Response:** Your suggestions are noted.

**Commission's View:** The Commission would examine the issue, if the Licensees come up with a proposal.

#### **COMMISSION'S ANALYSIS - REVENUE GAP**

201. As the expected revenue is ₹ 39411.00 Cr. for FY 2013-14 as against the revenue requirement of ₹ 40639.50 Cr. determined by the Commission, two Licensees i.e., CPDCL and EPDCL will have surplus and two Licensees SPDCL and NPDCL will have revenue deficit as detailed in Table 35.

**Table 35 : Revenue Requirement, Revenue and Revenue Gap for FY 2013-14 (₹ Cr.)**

Item	Licensee				All Licensees
	CPDCL	EPDCL	NPDCL	SPDCL	
(1)	(2)	(3)	(4)	(5)	(6)
Revenue Requirement	17898.36	6974.35	5845.59	9921.20	40639.50
Revenue realisation	18273.60	8281.19	3574.21	9609.74	39738.74
Revenue Surplus	375.24	1306.84			
Revenue Deficit			2271.38	311.46	900.76

## CHAPTER-VIII TARIFF RELATED ISSUES

### INTRODUCTION

202. In this chapter, the Commission is preparing the tariff structure based on Licensees' proposals. The Commission has examined the objections/suggestions expressed by different persons/organisations in writing and during public hearings. The Commission has also considered certain additional tariff proposals for FY 2013-14.

### COMMISSION'S ANALYSIS OF DISCOMS PROPOSALS IN THE LIGHT OF OBJECTIONS/SUGGESTIONS

203. **Licensees' Proposal:** The Licensees have proposed to levy energy charges based on non-telescopic method in place of the existing telescopic method. Licensees' stated reasons for this change in billing method are; a) energy conservation b) reduction in differences among the slab rates and c) prevention of consumers with higher consumption volume from availing lower slab rates. The Licensees' proposed tariff structure and energy charges for FY 2013-14 are given below:

**Table 36: Domestic Tariff Structure and Energy Charges Proposed by Licensees**

Consumption per Month (Units)	Energy Charge (` /Unit)
0-50 ( Consumption <=50 units), All Units	1.45
0-100 (Consumption >50 units and <=100 units) , All Units	2.60
0-200 (Consumption >100 units and <=200 units) , All Units	5.65
0-300 (Consumption >200 units and <=300 units) , All Units	6.15
0-500 (Consumption >300 units and <=500 units) , All Units	6.50
0->500 (Consumption >500 units) , All Units	7.00

**Objections/Suggestions regarding LT - I Domestic:** Several domestic consumers and consumer organizations have opposed the non-telescopic tariff structure. They have *inter alia* stated the following in writing and during public hearings.

- Consumer will be exposed to substantially higher bill amounts for a marginal one unit increase in consumption and such billing system shall not be accepted.
- It will leave lot of scope for manipulation by the meter readers, particularly when the consumption just exceeds upper limit in a given slab.

- Meter reading is not done at exact one month intervals due to field constraints and thus shifts from lower slab to higher slab, give rise to disputes.
- Proposed changes may also result in increase in theft of energy as consumers will be aware that burden will be huge, if the consumption exceeds the given slab.
- Encourage illegal splitting of services by the consumers, particularly by consumers with heavy consumption in order to reduce their tariff burden.
- The tariff structure and rate making should be in consonance of the income status of the households, such as lower, lower middle and higher income class.
- There are nearly 1 crore domestic consumers in the range of 0-50 units slab, whose average consumption is around 30 units per month. It is requested to treat these consumers as “**environmental protectors**” and separate slab may be created for them with subsidized tariff.
- Keeping in view of the GDP growth and cost of living index; the tariff enhancement be restricted to 5% to 8% and not 40% to 50 % as per the proposal made by Licensees.
- Increase the tariffs for higher income groups and reduce the tariff for middle and lower income groups.
- Keep the increase of Tariff 5% to 10% of the Tariff of previous year (2012-13) while keeping the tariff untouched for slab nos 1&2 and to raise the Tariff of slab nos. 5&6 by about 10%.
- Create a sub category for consumers using more than 1000 units and increase unit price by another 10%. There should be no objection to enhance the tariff by 5% to 10% and not more.
- Tariff for scheduled areas should be less compared with others in view of low economic status, and hydel and thermal power generation in these areas.

- There are around 7% of handicapped persons in the State. Most of them are poor people and their consumption will be below 50 units per month. It is requested to create a separate category for the handicapped persons.
- As per the section 8.3.1 of NTP the tariff for the consumers below poverty line should be at least 50% of the average cost of supply. In the proposed tariff for FY 2013-14 in respect of LT Category - I Domestic, 0-50 units slab, the unit price is 145 paise and this should be increased as per the NTP.
- The average consumption of the domestic consumers for 0-50 units slab is 10-15 units only. So, minimum charges should not be levied for the consumers in the 0-50 units slab.
- In case of consumers to whom free power has been promised with single bulb, no re-connection charges should be levied in case of disconnection for non payment of bills.

**Licensees' Response:** Licensees, while mostly emphasizing the reasons mentioned in their filings, further stated that;

- For increase in revenue recovery from consumers, the tariff differential between lower consumption slab and higher consumption slab will become huge in the non-telescopic tariff structure.
- Consumers tend to minimize the energy bill while remaining in the lower slab that will result in reduction in utilization of cross subsidies and external government subsidies.
- With regard to rates proposed, the Licensees stated that the rise in cost of service has necessitated them to opt for increase in tariff. With regard to categorization and other aspects, Licensees stated that these are under jurisdiction of APERC.

**Commission's Decision:** The present tariff structure for domestic consumers consist of two sub categories, a) LT-I(A): Consumers with contracted load up to 500 W and b) LT-I(B): Consumers with contracted load above 500 W, with telescopic tariff structure. The proposal made by Licensees, if approved, will

result in elimination of this differentiation whatever the tariff structure, i.e. telescopic or non-telescopic. The Commission, with the observation of one year implementation of this tariff differentiation by Licensees and Licensees' proposal to remove the tariff differentiation based on contracted load, has decided to discontinue the differentiation of the domestic consumers based on contracted load for FY 2013-14.

The Commission, after examination of various objections/suggestions, Licensee views and one year consumption data, has decided to differentiate the consumers based on total consumption of electricity per month. Accordingly, the Commission has created two sub categories under LT-I Domestic as follows;

LT-I(A):Consumption upto 50 units per month.  
 LT-I(B):Consumption above 50 units per month.

As regards the non-telescopic structure proposal, the Commission has examined the proposal of the DISCOMs in the light of the objections raised against non-telescopic structure in the context of avoiding billing shocks, discouraging multiple connections, avoiding potential billing disputes and possible manipulation of meter readings and also excessive burden on the consumers for marginal increments in consumption at the interfaces of slabs, has decided to retain the telescopic structure for FY 2013 - 14 for billing of LT - I (B) Domestic consumers.

The Commission has determined the tariff structure for LT-I Domestic for FY 2013-14 as given in Table 37.

**Table 37: Domestic Tariff Structure for FY 2013-14 approved by the Commission**

LT-I:DOMESTIC
LT-I(A): Upto 50 Units/Month
LT-I(B): Above 50 Units/Month(Telescopic Basis)
Upto 50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-400, 401-500, Above 500

204. **Licensees' Proposal regarding LT-II Non-Domestic/Commercial:** The Licensees have proposed to remove the existing differentiation of the consumers based on contracted load. The present tariff structure for non-domestic/commercial consumers consists of two sub categories, a)LT-II(A): Consumers with contracted load up to 500 W and b)LT-II(B): Consumers with



contracted load above 500 W with telescopic tariff structure. The Licensees' proposed tariff structure for this consumer category is given below;

**Table 38: Non-Domestic/Commercial Tariff Structure and Charges Proposed by Licensees**

Proposed Slab structure (Units)	Proposed Fixed charge (Rs/kVA/month)	Proposed Energy charge (Rs. /Unit)
0-50	50.00	5.40
51-100	50.00	7.35
>100	50.00	8.35

**Objections/Suggestions:** Several consumers/objectors have expressed the following in writing and during the public hearings.

- Some consumers have requested for deletion of the present differentiation as proposed by Licensees based on contracted load which allows them to avail the lower tariff for the first 50 units consumption.
- Some other consumers argued against the merger of the existing two consumer categories based on contracted load. They stated that by merging LT-II(A) and LT-II(B) into LT-II(A), consumers under this category with a contracted load of 500 watt and below and a monthly consumption of 51-100 units are going to be deprived of the telescopic benefit for the consumption of first 50 units.
- Fixed charges of Rs.50 per kW per month proposed on all consumers with a contracted load of 500 watt and below in addition to the proposed hikes of tariff, is burdensome.
- The tariff for 0-50 slab proposed to be increased from ₹ 3.85/unit to ₹ 5.40 /unit i.e., by 40.26 per cent, affecting eight lakh consumers like small traders, is burdensome.
- The offices of advocates, accounts organizations and consulting rooms of doctors etc. situated in the residential buildings may be brought under LT Category II Non-domestic.
- The Bala vikas may continue to be billed under LT-VI B, as earlier, instead of billing it under LT -II by DISCOMs, since it is supplying drinking water in fluoride affected area.
- The categorization of Millet Food Processing units should be done in LT Category-IV instead of LT Category-II.

**Licensees' Response:** The tariff filing for FY 2013-14 aims to simplify the present complex tariff structure which has more than 100 line items to a more rational tariff structure of nearly 60 line items. The merging of LT-II(A) and LT-II(B) has been proposed because of the similar usage of energy in both the sub categories. Tariff rationalization has taken into account all those

consumers who are in the cross subsidized categories apart from Agricultural and Domestic consumers.

**Commission's Decision:** The proposal made by Licensees, if approved, will result in elimination of this differentiation of consumers based on contracted load. The Commission, with the observation of one year implementation of this tariff differentiation by Licensees and Licensees' proposal to remove the tariff differentiation based on contracted load, has decided to discontinue the differentiation of the consumers based on contracted load for FY2013-14.

The Commission, after examination of the objections/suggestion, Licensees' views and one year consumption data, has evolved the tariff structure for this category in similar manner to LT-I: Domestic with different slabs. The tariff structure for FY 2013-14 for LT-II:Non-Domestic/Commercial consumers has been determined as given in Table 39;

**Table 39: Non- Domestic/Commercial Tariff Structure Approved by the Commission**

<b>LT-II:NON-DOMESTIC/COMMERCIAL</b>
<b>LT-II(A): Upto 50 Units/Month</b>
<b>LT-II(B): Above 50 Units/Month (telescopic)</b>
Upto 50, 51-100, 101-300, 301-500 & Above 500
<b>LT-II(C):Advertisement Hoardings</b>

With regard to categorization, the Commission has not considered any additional proposal as raised by the consumers/objectors, as most of these are related to interpretation of the existing terms and conditions of Retail Supply Tariff. The Commission expects the Licensees to examine the different consumer suggestions/objections and come up with appropriate proposals.

205. **Licensees' Proposal regarding LT-III Industrial Optional Tariff:** Licensees have proposed to merge LT-III(A)(ii) Industrial Optional category into LT-III: Industry.

**Commission's Decision:** At present, this consumer category is an optional one available to LT-III Industrial consumers with two part tariff, demand (₹/kVA) and energy charges. No specific objections/suggestions have been received by the Commission on this proposal. The optional tariff is useful for consumer who intends to declare the contracted load in kVA less than the connected HP and pay the fixed charges on declared demand in kVA. Since not many

consumers have opted this category, the Commission has decided to approve the merger as proposed by Licensees.

206. **Licensees' Proposal regarding LT-III(A) Seasonal Industries :** Licensees have proposed to merge seasonal industries into LT-III Industry.

**Commission's Decision:** At present, seasonal industries under LT-III(A) have the concession on fixed charges and pay higher energy tariff during the off season period. The Licensees' proposal, if approved, will result in denial of concession on fixed charges for industries during the off season. No specific objections/suggestions have been received by the Commission on this proposal. The industries which declare the season will normally shut the operations during the off season period. Accordingly, industries can avail the concession in fixed charges and pay higher energy charges as penalty, if they operate during the off season period. Therefore, the Commission has not agreed for the merger of seasonal industries as proposed by Licensees.

207. **Licensees' Proposal regarding LT-III(A) Pisci/Prawn Culture and Sugarcane Crushing :** The Licensees have proposed to shift two sub categories a) Pisci/prawn culture and b) Sugar Cane Crushing from LT-III Industries to LT-IV: Cottage Industry (proposed to retain this category as LT-IV: Specific Purposes).

**Commission's Decision:** At present, these two sub categories are having lower energy tariff compared with the energy tariff applicable for LT-III: Industry. No specific objections/suggestions have been received by the Commission on this proposal. The Licensees' proposal to move these two sub categories to LT-IV: Cottage industries has not been accepted by the Commission as load limit exist in case of LT-IV: Cottage Industry. The Licensees' proposal did not consider this aspect which will result in operational problem, if the consumer load exceeds the load limit applicable to LT-IV: Cottage Industries. Therefore, the Commission has not accepted the proposal of the Licensees.

208. **Licensees' Proposal regarding LT-III(A) Other Sub Categories:** The Licensees have proposed to merge existing four sub categories into LT-III: Industrial as there are no tariff differences between LT-III: Industry and these existing four sub categories. The four existing sub categories are;

Poultry farms with above 1000 birds  
Mushroom & Rabbit farms  
Floriculture in Green House  
Seasonal Industries

**Commission's Decision:** No specific objections/suggestions have been received by the Commission on this proposal. The Licensees' proposal is based on the claim of uniform energy tariff, but did not consider the specific terms and conditions applicable for each sub category. These consumers may not be able to produce "industry registration certificate" as is required for LT-III: Industry and may not be able to meet the minimum load requirements to fall into this consumer category. To avoid these complications, the Commission has not agreed for the merger proposed by Licensees.

209. **Licensees' Proposal regarding LT-III(B) Industrial Optional SSI Units :** The Licensees have proposed to merge LT-III(B):Industrial (SSI) units into HT-I(A):Industry and mentioned no reasons for such merger.

**Objections/Suggestions:** The proposed merger into HT-I(A): Industry will result in steep tariff increase and to avoid this steep tariff increase, the present consumer category shall be retained. Further, compared with other small industry tariff, the present tariff under LT- III(B): Industry is rather high and the same will increase significantly, if the consumer category is moved to HT-I(A) Industry as proposed by Licensees.

**Licensees' Response:** The consumer base and energy usage of LT-III(B) is very similar to the HT 11 kV Industrial consumers. Also, the metering of LT-III(B) consumers is being done on the HT side. Hence the LT-III (B) is proposed to be merged with HT-I(A) (11kV). Further, tariff hike is necessary in view of increase in cost of service.

**Commission's Decision:** At present, these consumer pay two part tariff, demand (₹/kVA) and Energy charges. If the Licensee proposals are approved, it will result in deletion of this tariff category and merging these consumers into HT-I(A)-11 kV Industrial consumers. As the consumption profile of these consumers is in no way different from that of HT-I(A)-11kV industrial consumers, in view of availing supply at 11 kV and metering on HT side of the transformer, the Commission has decided to approve the merger as proposed by Licensees.

The Commission after examination of licensees proposals as above, has determined the following tariff structure for LT-III Industry;

LT-III	INDUSTRY
LT-III(i)	Industrial, Normal
LT-III(ii)	Seasonal Industries
LT-III(iii)	Pisciculture/Prawn culture
LT-III(iv)	Sugarcane crushing
LT-III(v)	Poultry farms
LT-III(vi)	Mushroom & Rabbit Farms
LT-III(vii)	Floriculture in Green House

210. **Licensees' Proposal regarding LT-IV Cottage Industries , Dhobighats and Others:** The Licensees have proposed to change the title for LT-IV:Cottage Industries... to LT-IV:Specific Purposes while including some other sub categories from LT III(A)(i):Industrial, LT-V: Agriculture and LT-VIII: General into this category. The new category as per the proposal will consist of the following sub categories of consumers from the existing tariff categories.

- LT-III (A): Industrial Normal and Others
  - Pisciculture/Prawn culture (up to 10 HP)
  - Sugarcane crushing
- LT-IV: Cottage Industries, Dhobi Ghats and others
  - Cottage Industries & Dhobi Ghats ( up to 5 HP)
  - Poultry farms up to 1000 birds
  - Agro based activity (up to 5HP)
- LT-V(C): Others
  - Salt farming units (up to 15 HP)
  - Rural horticulture nurseries (up to 15 HP)
- LT-VII(B): Religious Places (up to 1 kW)

**Objections/Suggestions:** The objections/suggestions on the Licensees' proposal are summarized below;

- Religious places should not be merged into LT-IV: Cottage Industries and the load limit for LT-VII(B) Religious places should be enhanced. Some others preferred to include pisci/prawn culture into LT-V: Cottage Industries as proposed by Licensees.
- Some consumers requested to continue the existing tariffs for Cottage industries, Dobighats, Poultryes, Agrobased Activities,

rural horticulture units, Religious places and Sugar crushing units.

**Licensees' Response:** Licensees stated that the cross subsidized consumer categories are proposed to be brought under single tariff category with the above proposal. The cost of service has gone up which necessitates tariff hike.

**Commission's Decision:** The Commission examined this proposal with specific reference to likely consumption profile. The consumption profile and supply conditions (on account of some being on rural feeders) cannot justify the bringing of all these consumer categories into a single tariff category.

Further, the merger will prevent the Commission as well as Licensees from differentiating the consumers for the purpose of fixation of the tariff. Therefore, the Commission has not accepted the proposal made by Licensees.

The Commission has restructured this consumer category as LT-IV: Cottage Industries with two sub categories, a) Cottage Industries and b) Agro Based Industries. Further, the load limit for cottage industries has been revised from the existing 5 HP to 10 HP as number of consumers pointed out the need to enhance the limit. The tariff applicable for LT-IV(A): Cottage Industries will be applicable for dhobighats also. The poultry farms have been removed from this category w.e.f. FY 2013-14 and now all poultry farms pay the tariff as mentioned under LT-III: Industrial. The revised tariff structure for LT-IV: Cottage Industries shall be as follows;

LT-IV	COTTAGE INDUSTRIES
LT-IV(A)	Cottage Industries
LT-IV(B)	Agro Based Activity

211. **Licensees' Proposal regarding LT-VI Local Bodies, Street Lighting and PWS Schemes :** In the existing tariff structure LT - VI (A) covers the following

LT-VI(A)	LT-VI(A):STREET LIGHTING
LT-VI(A)(i)	Minor Panchayats
LT-VI(A)(ii)	Major Panchayats
LT-VI(A)(iii)	Nagarpalikas & Municipalities (Gr 3)
LT-VI(A)(iv)	Municipalities (Gr 1&2)
LT-VI(A)(v)	Municipalities Selection Special Group
LT-VI(A)(vi)	Corporations

In the existing tariff structure LT - VI (B) covers the following

LT-VI(B)	<b>LT-VI(B):PWS SCHEMES</b>
LT-VI(B)(i)	<b>LT-VI(B)(i):Minor/Major Panchyats</b>
LT-VI(B)(i)	<b>Upto 2500 units/Yr</b>
LT-VI(B)(i)	<b>Above 2500 units/Yr</b>
LT-VI(B)(ii)	<b>LT-VI(B)(ii):All Nagarpalikas &amp; Municipalities</b>
LT-VI(B)(ii)	<b>Upto 1000 units</b>
LT-VI(B)(ii)	<b>More than 1000 units</b>
LT-VI(B)(iii)	<b>LT-VI(B)(iii):Municipal Corporations</b>
LT-VI(B)(iii)	<b>Upto 1000 units</b>
LT-VI(B)(iii)	<b>More than 1000 units</b>

The Licensee has proposed restructuring of categories LT - VI(A) and LT-VI(B) as follows:

**LT-VI (A): Street Lighting and Public Water Works (Panchayats)**

LT-VI(A)	<b>LT-VI(A):STREET LIGHTING</b>
LT-VI(A)(i)	<b>Minor Panchayats</b>
LT-VI(A)(ii)	<b>Major Panchayats</b>
LT-VI(B)	<b>LT-VI(B):PWS SCHEMES</b>
LT-VI(B)(i)	<b>LT-VI(B)(i):Minor/Major Panchyats</b>
LT-VI(B)(i)	<b>Upto 2500 units/Yr</b>
LT-VI(B)(i)	<b>Above 2500 units/Yr</b>
Others	PWS maintained by RWS department

**LT-VI (B):Street Lighting and Public Water Works (Nagarpalikas, Municipalities and Corporations)**

<b>Existing Category</b>	
LT-VI(A)	<b>LT-VI(A):STREET LIGHTING</b>
LT-VI(A)(iii)	<b>Nagarpalikas &amp; Municipalities (Gr 3)</b>
LT-VI(A)(iv)	<b>Municipalities (Gr 1&amp;2)</b>
LT-VI(A)(v)	<b>Municipalities Selection Special Group</b>
LT-VI(A)(vi)	<b>Corporations</b>
LT-VI(B)	<b>LT-VI(B):PWS SCHEMES</b>
LT-VI(B)(ii)	<b>LT-VI(B)(ii):All Nagarpalikas &amp; Municipalities</b>
LT-VI(B)(ii)	<b>Upto 1000 units</b>
LT-VI(B)(ii)	<b>More than 1000 units</b>
LT-VI(B)(iii)	<b>LT-VI(B)(iii):Municipal Corporations</b>
LT-VI(B)(iii)	<b>Upto 1000 units</b>
LT-VI(B)(iii)	<b>More than 1000 units</b>

**Commission's Decision:** The Commission has examined the proposal and concluded that the first level of differentiation shall be based on end use of electricity, i.e. for street lighting or PWS Schemes. The second level of differentiation shall be on type of local body viz. panchayat, municipality or corporation as the supply conditions and quantum of usage differ from one

another. The Commission has accordingly, evolved the following tariff structure for this consumer category.

**Table 40: LT-VI: STREET LIGHTING AND PWS: Tariff Structure approved by the Commission**

**LT-VI(A):STREET LIGHTING**

LT-VI(A)(i)	Panchayats
LT-VI(A)(ii)	Municipalities
LT-VI(A)(iii)	Municipal Corporations

**LT-VI(B):PWS SCHEMES**

LT-VI(B)(i)	Panchayats
LT-VI(B)(ii)	Municipalities
LT-VI(B)(iii)	Municipal Corporations

212. **Licensees' Proposal regarding LT-VIII Temporary:** The Licensees have proposed single category LT-VIII: Temporary Supply by merging the following sub categories.

- LT-VIII(A): Temporary supply for Agriculture Purpose.
- LT-VIII(B): Temporary supply for others.

**Objections/Suggestions:** Some consumers/objectors have opined that the proposal will lead to removal of temporary supply to agriculture with special lower tariff and thus the proposal should not be accepted.

**Commission's Decision:** Though the proposal will lead to deletion of temporary supply to agriculture at lower rate, instances of availing temporary supply for agricultural purpose are not normally observed. Hence, the Commission has agreed with Licensees proposal for creation single category for temporary supply. Henceforth, there will be single LT Tariff category for supply of power on temporary basis

213. **Licensees' Proposal regarding HT-I(A) Industry General :** The Licensees have proposed to merge the following sub categories into the main category for FY 2013-2014.

Lights & Fans  
Colony Consumption  
Seasonal Industries  
LT-III (B): Industrial (SSI Units) and Seasonal Industries



**Objections/Suggestions:** Some consumers/objectors have highlighted the problems in metering the lighting loads separately in industrial premises and also highlighted the stringent penal clauses that operate based on the existing tariff orders in case the lighting loads are not separately metered.

**Commission's Decision:** At present, the tariff for lights and fans in industrial premises is higher than the industrial tariff and the energy is being measured through sub meters fixed for this purpose. If the Licensees' proposal is approved, there will be no need for separate metering and energy consumed by lights and fans will be billed as industrial consumption at the applicable tariff. The Commission has approved the merger proposal (except colony consumption) as filed by Licensees as it leads to removal of difficulties as mentioned by objectors.

With regard to Licensees' proposal to merge Industrial colonies with HT-I: Industrial, the Commission's view is that the consumption profile of the consumers in industrial colonies will not be different from that of consumers in HT-VI: Townships and Colonies. Hence, the present arrangement of levying the tariff of HT-VI: Townships and Colonies for industrial colonies separately is rational. Accordingly, the Commission has not approved the Licensees' proposal of merging the Industrial Colonies with HT-I: Industry.

The proposal to merge seasonal industries with HT-I: industry has not been accepted by the Commission due to the reasoning mentioned under LT-III(A):Industry(para 206).

The proposal to merge LT-III(B):industry with HT-I:Industry has been accepted due to the reasoning mentioned under LT-III(B):Industry above(para 209).

The approved tariff structure for HT-I(A):Industry General for FY2013-14 will be as follows:

- HT-I(A)(i) : Industry General
- HT-I(A)(ii) : Seasonal Industries(Off Season Tariff)
- HT-1(A)(iii): Colony Consumption

214. **Licensees' Proposal regarding HT-I(B) Ferro Alloy Units:** The Licensees have proposed to merge this sub category into HT-I(A): Industry General.

**Objections/Suggestions:** The consumers and their representatives have expressed the opinion that the proposed merger will lead to steep increase in

tariff per unit for Ferro Alloy units. The proposal appears to be an indirect way of raising the tariff for Ferro Alloy units and hence, not be accepted. They expressed that the proposal will result in tariff shock to consumers and closure of units.

**Licensees' Views:** The Ferro alloys category was separated from HT-I category in 2002. Until then, there was no difference between the Ferro alloy and other industries. In September, 2002, Hon'ble Commission created a separate sub category for Ferro alloy giving differential treatment due to higher load factor. There is no separate category for Ferro Alloys in any other major state in India. The licensee proposes to merge this with HT I (A) Industrial category. As load factor of Ferro Alloy industries is higher as compared to other industries, the net tariffs for Ferro Alloy industries would still be lower than other industrial consumers even after the merger.

**Commission's Decision:** If the Licensees' proposal is approved, the tariff applicable for HT-I(A): Industry will be applicable for Ferro Alloy units also. At present, Ferro Alloy Units are covered under HT-I(B) category with specific tariff conditions, viz. minimum off take of 6701 kVAh per kVA/annum (at 85% load factor per annum), no demand charges, no ToD tariff and energy charges less by ₹ 0.32/kVAh compared with HT-I(A): Industry General. The consumers, whether they consume or not, pay for 6701 units per kVA during year. Accordingly these consumers have no choice in energy usage unlike other consumers and also assure revenue to Licensees. The Commission has not seen any merits in Licensees' proposal and hence not accepted the proposal of merging HT - I(B) Ferro Alloy units with HT I (A) Industry.

215. **Objections/Suggestion regarding separate Tariff for Supply at 220 kV level:** The Hon'ble Commission to create/retain a voltage wise tariff under HT I(B) for 220 kV ,in line with the provisions of the Electricity Act, 2003 . Concept of incentive for availing supply at higher voltage is set out itself in the Regulations of the Hon'ble Commission which should be implemented.

**Licensees' Response:** The supply/ flow of electricity at 11 kV & 33 kV levels in the distribution network of A.P. State is operated in radial mode, whereas the supply/ flow to EHT consumers at 132 kV, 220 kV & 400 kV is operated in ring mode (integrated system). The power flow path in this transmission system cannot be distinctly differentiated at different voltage levels. In EHT system, the power can flow from lower to higher voltage or higher to lower

voltage depending on the physics of the system. The physics of the system determined the power flow path and hence EHT system losses can only be determined and voltage wise losses cannot be determined separately.

Therefore, the APERC has considered the system losses for all voltages of EHT system, since it is operated as an integrated manner, and consequently only one tariff is fixed for all consumers connected to EHT system. It is necessary to submit here that, the Power Grid Corporation of India Ltd. (PGCIL) also arrived one transmission loss for their system since it is also one integrated system although their system, consists of 400 kV, 220 kV and 132 kV.

Considering the uncertainty of power flow path in various voltage levels, APERC considered the losses of EHT system at same quantum. While the losses at different levels of 11 kV and 33 kV being different (not integrated), the different levels of losses were taken into consideration.

It is further submitted that the cost of service to the consumer of 220 kV level is much higher than the consumer connected at 132 kV. The reasons are obvious that the infrastructure required for 220 kV is costlier than the infrastructure components of the 132 kV, that apart the infrastructure requires to be set up from the electricity flow of 400 kV to 220 kV.

**Commission's Decision:** (a) The transmission system of Andhra Pradesh is operated in ring mode (integrated system) which consists of 400 kV, 220 kV and 132 kV system. The power flow path in a transmission system cannot be defined. In EHT system, the power can flow from lower to higher voltage or higher to lower voltage, depending upon the physics of the system. The physics of the system determines the power flow path and hence EHT system losses can only be determined and voltage wise losses for 132 kV, 220 kV and 400 kV cannot be separately determined.

- a. The APERC has adopted single loss figure for EHT system voltages, i.e., 132 kV, 220 kV and 400 kV, since EHT system is operated as an integrated system. Hence, the voltage wise tariff for 220 kV cannot be determined.
- b. PGCIL system consists of 400 kV, 220 kV and 132 kV system and it is one integrated system. The Power Grid Corporation of India also arrived one transmission loss for their system.

- c. Central Electricity Regulatory Commission (Rates, Charges and Terms and Conditions for use of Intervening Transmission Facilities) Regulations, 2010, were issued to determine transmission charges and wheeling losses for intervening transmission system. The losses mentioned in Clause 12 of the said Regulation are **normative losses** and arrived based on thermal loading limit of each voltage level per 50 km length of **contract path**.
- d. The clause 3(2) of the said regulation states that these regulations shall apply where the intervening transmission facilities incidental to inter-State transmission owned or operated by a licensee, are used or proposed to be used by any trading licensee or distribution licensee for transmission of power through long-term access, medium-term open access or short-term open access, and where the contracting parties have failed to mutually agree on the rates and charges for the usage of such intervening transmission facilities as envisaged under the proviso to sub-section (1) of Section 36 of the Act.”

Hence, it is not possible to determine a separate tariff rate exclusively for 220 kV consumers.

- 216. **Licensees’ Proposal regarding Aviation Activity at Airports :** The Licensees propose to delete this consumer category and merge these consumers into HT-II: Others for FY2013-14. No specific reasons for this deletion have been provided by the Licensees.

**Objections/Suggestions:** Reject the ARR proposal made for merging HT-III (Aviation) with HT-II (Others) or to levy same tariff as applicable to HT-II (Others) and to fix the composite tariff taking in to account the power consumption ratio of the objector at 73:27 of aviation and non-aviation consumption respectively for the year 2013-14.

**Licensees’ View:** The orders of the Hon’ble Commission in creating this tariff category are the consequential to the orders of the Hon’ble APTEL. As the Hon’ble Supreme court decided to examine the case on merits along with similar other appeal No. 7525 of 2011 (which is filed by M/s Reliance Infrastructure challenging the orders passed in Appeal No.195 of 2009). Therefore once the appeal is filed, the order loses its finality, as the order under appeal is in jeopardy. Therefore evolving composite Tariff for Air ports

is since seized by Hon'ble Supreme Court, APCPDCL is of the view that HT-II tariff has to be implemented for the Airports.

**Commission's Decision:** 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.

217. **Licensees' Proposal regarding Lift Irrigation, Agriculture and CPWS:** The Licensees have proposed to create a single category HT-IV: Lift Irrigation, Agriculture and CPWS by merging the below mentioned existing sub categories.

- HT-IV(A) - Lift Irrigation Schemes
- HT-IV(B) - Agriculture
- HT-IV(C) - Composite Protected Water Supply Schemes

218. **Objections/Suggestions:** Lift irrigation schemes are divided into two types- those run by the government and those run by the farmers' organizations. Duration of power supplied and tariff is also different for them. This is leading to lot of confusion and unnecessary hardship to the farmers. The suggestion is that all the lift irrigation schemes shall be treated uniformly, power shall be supplied according to the design requirement of each lift irrigation scheme and the tariff shall be equal to water cess collected under surface irrigation projects. The remaining expenditure shall be met by the state government. Merging of subcategories is not justified.

**Licensee's Response:** As a part of rationalization HT-IV(A),(B)&(C) categories are merged to single HT-IV category with a tariff of ₹ 5.61 per unit.

**Commission's Decision:** At present, the three sub categories of consumers are levied different charges on account of provision of cross subsidies and subsidies by GoAP u/s 65 of the Electricity Act, 2003. The Commission has decided to approve the merger proposal as filed by the Licensees as there is no difference between HT-IV(A):Lift Irrigation Schemes run by Government and HT-IV(B):Agriculture in terms of end use of electricity, i.e. utilization of power for lifting of water for a group of farmers.

219. **Licensees' Proposal regarding HT Temporary:** The Licensees have proposed to levy both specific demand and energy charges for temporary usage of energy by consumers for FY 2013-14.

**Commission's Decision:** At present, the tariff applicable for temporary usage is 1.5 times of the demand and energy charges of the corresponding consumer category. The Licensees' proposal is to levy specific charge in place of 1.5 times of the demand and energy charges. The Commission has not approved the proposal for FY 2013-14, since the duration of each temporary supply connection is only for limited period.

#### **DETERMINATION OF CROSS SUBSIDY SURCHARGE**

220. **Licensee's Proposal:** The Licensees have requested to determine the cross subsidy surcharge along with Retail Supply Tariff for FY 2013-14.

**Commission's Decision:** At present, in view of R & C measures, the Commission has exempted the consumers from payment of cross subsidy surcharge. The Commission will revisit the issue as and when the need arises for determination of cross subsidy surcharge during the year 2013-14.

#### **CONCLUSION**

221. The Commission, as explained above, has modified the tariff structure for FY 2013-14 for select tariff categories and introduced a new tariff category i.e., HT-III: Airports, Bus Stations and Railway Stations. For the purpose of rate making to recover the approved revenue requirement for FY 2013-14, the Commission has adopted this modified tariff structure.

## CHAPTER-IX GENERAL ISSUES

### OBJECTIONS/SUGGESTIONS INCLUDING THOSE MADE AT PUBLIC HEARINGS:

222. **Objections/Suggestions regarding R & C Measures: M/s Aurobind Pharma & others** have raised the following objections;

Power cut/ Power holidays/ power restrictions / ELR imposed on industries adversely affect in production. All HT consumers are resorting to open access from IPPs at higher rates and also paying heavy penal charges for non-compliance of R & C measures. The DISCOMs must provide uninterrupted power without restriction before imposing further burden on consumers. Further, the pulveriser units are continuous process industries, where in all motors should run simultaneously for production. The levy of penalty charges based on the PDL (Permitted Demand Limit) during R & C period has to be cancelled and penalty may be levied on PCL (Permitted Consumption Limit). The DISCOMs have not explained how much additional revenue they are getting by implementing the R&C order.

The Govt. of AP exempted the IT sector from power cuts as per the ICT Policy 2010-15. APCPDCL is resorting to power cuts imposing R&C measures past few months. If such is the situation how the MNCs of IT sector will accept the AP as reliable place for getting their business. It is requested to direct the APCPDCL to provide power to IT Industry un-interruptedly to attract the IT clients and requested to waive the CSS for OA transactions during load shedding period.

Exemption for R &C measures shall be given to MSME sector and small scale industries instead of IT industries. If supply is interrupted between 4PM to 6 PM, requested to allow the consumer to use power during peak hours for one hour. Further, requested to set the time uniformly in the meter at consumer premises. The penalties levied so far may be cancelled.

**Licensees' Response:** During the recent period due to reduction in hydel generation because of low rainfall and reduction in power availability from gas based IPPs because of low production of gas in KG basin there is a huge deficit between demand and supply in the state. It become necessary to control demand to meet with the supply due to which the load reliefs are

being imposed. Further to control the unofficial load reliefs and to safe guard the grid, the licensee approached the Commission to impose Restriction and Control measures on the consumers. Hon'ble Commission has issued the order on R & C measures on 07-09-2012 and the amended orders are issued later on. As soon as the availability improves the R & C measures will be lifted. R & C measures approved by the Hon'ble Commission specified the limits to be adhered to by consumers. These R&C measures instill discipline in the system and it ensures grid discipline. If power cuts are to be imposed by the licensees, then these consumers cannot source power through open access. The present R&C measures give the consumers to source power from Open Access to meet the power deficit. In the interest of public, certain categories are exempted from R & C by the Hon'ble Commission. Penalties are being levied only to the consumers who exceed their specified limits.

The licensee would take the necessary steps to not subject the IT sector to power cuts. DISCOMs have exempted the IT sector from R & C measures as per the directions of Govt. of AP. Cross subsidy surcharge is not being levied under R & C measures.

**Commission's View:** R&C measures have been imposed by the Commission, upon the proposal of the DISCOMs based on the prevailing Demand-Supply situation. Strict adherence to R&C order by the Consumers and the DISCOMs would ensure discipline and safe guard the operation of the Grid within the safe limits.

The Commission has conducted a meeting with Industrial consumer associations like FAPCCI, FAPCIA, Spinning Mills Association etc and collected written and oral submissions. Duly considering the submissions made by the representatives of different sectors, the Commission has issued the R&C order.

With regard to units like pulverizer units, an option of availing full contracted demand for 18 days in a month or 4 days in a week, was allowed in R & C order.

Certain class of consumers has been granted exemption to R&C measures, by the Commission based on the recommendation of the DISCOMs and the examination of the criticality of the purpose of usage.



Cross Subsidy Surcharge on OA transactions has been waived by the Commission vide R&C Order issued on 01-11-2012.

**223. Objections/Suggestions regarding Open Access: M/s India Cements, Sri. B.S.S.V. Narayana & others** have e raised the following objections;

When the Objector procures energy from the exchange, it is only after procuring the NOC from the SLDC. The exchange further furnishes the SLDC as well as the concerned Discom, the injection schedule on a daily basis which clearly indicates the quantum of power procured form the exchange. Despite this the petitioner while issuing bills, does not see it prudent to exclude the energy procured form the exchange and charge the objector only for the energy drawn from it. Instead, even the units procured by the Objector through open access are included in the bill and are charged for by the petitioner and is claimed to be adjusted in the coming months. This practice is out right redundant as well as a financial burden to the Objector who is paying twice for the same energy procured during the month.

To direct the DISCOMs to allow Open Access to the consumers who intend to procure power during load shedding period from the third party. DISCOM may be directed to ease the procedures to obtain the required permission.

**Licensees' Response:** The settlement of open access sales provisionally is being done by allowing instantly 90% of total open access sales in the same month bill and only 10% of open access sales kept with the Discom for the purpose of meeting the UI charges if the consumer deviates from the schedule. The final settlements are being done soon after receiving the data and finishing of verification of 15- minute time block schedules.

**Commission's View:** Taking into account of 90% of scheduled energy in the Open Access transactions for the provisional monthly settlement, for the purpose of billing of energy supplied by the DISCOMs, is appropriate. In this connection, all the DISCOMs are hereby directed;

*to take into account 90% of Scheduled Energy and corresponding Demand, procured by the Consumers through inter-state Open Access (Bi-lateral or through exchange), for the purpose of provisional monthly settlement for the sake of billed energy /demand from the DISCOMs' side.*

224. **Objections/Suggestions regarding Power Cuts: M/s I.K.P Knowledge Park & others** have raised the following objections;

The power cuts should be imposed on all areas equitably. While imposing the load reliefs the difficulties of students and women shall be considered. APERC shall direct the APTRANSCO and DISCOMs to avoid severe load shedding on residential consumer. Public hearing shall be conducted on load shedding like in Maharashtra. Power cuts shall not be imposed during 11.30 am to 3.30 pm in summer keeping in view of old age people and children at home.

**Licensees' Response:** The licensees have considered all available sources of power to ensure availability of power and quality supply to consumer. The licensees have completed the bidding process for medium term and have signed PPA's with two power generators for 550 MW for 3 years from June 2013. Further, the licensees also placed LOIs for supply of 1050 MW for 25 years on 3 power generators under long term power purchases from 2016. The licensees have already started the tender process for solar capacity addition of 1,000 MW in FY 2013-14. The licensees are also taking steps to ensure that 350 MW of wind power is commissioned by the end of this year.

The licensee is giving 24 hrs power supply when there is no gap between demand and supply. But in present situations due to gap between demand and supply, the DISCOMs are unable to provide 24 hrs supply in rural areas.

**Commission's View:** In view of the existing precarious power Demand Supply situation that is being encountered by the utilities, Demand control measures by means of load shedding/R& C measures are inevitable, in the interest of stable working of the grid.

225. **Objections/Suggestions regarding Energy Conservation: Sri. M. Timma Reddy, Sri. V. Venkataramaiah & others** have raised the following objections;

No central lighting on roads in the city when there is shortage of supply. The street lights are glowing in day time also due to non- providing of third line for street lights. Power can be saved if third wire is provided. Government has given order for implementation of energy conservation measures in the Offices of Government. But no office is implementing these measures and they are wasting the electricity. Pilot project on utilisation CFL lamps shall

be taken up in rural areas. Increase the concentration on improvement of alternate power source generation like solar, wind and bio-energies. So many energy conservation committees have been constituted for this purpose. The Committees consists of officials of various disciplines. Is there anybody to represent consumers in such committees? It is said that about 25% of power is being consumed by Agriculture Sector. Why not an agriculture consumer in such a committee? 310 numbers CFL bulbs have been distributed in SPDCL area under energy conservation scheme. We like to know how much energy is saved with this. Though an Energy Conservation Mission is formed at the state level its impact is not felt at the ground level. The Commission may come out with specific targets to be achieved on energy efficiency front.

**Licensees' Response:** DISCOMs have notified a tender to procure 1000MW from solar energy on the entire state as per G.O.Ms.No.46 under competitive bidding route. DISCOMs are encouraging solar power developers to set up power under REC mechanism through PPA as per the guidelines of CERC/ APERC. Govt. encouraging bagasse/ biomass developers who are under PPA to increase their production (energy) by providing higher tariff i.e. ₹ 5.50 irrespective of APERC tariff. Govt. encouraging bagasse/ biomass developers who are under PPA to increase their production (energy) by providing higher tariff i.e. ₹ 5.50 irrespective of APERC tariff. APGENCO is calling for tenders for mini hydel power plants in A.P. for encouraging mini hydel power plants.

In the light of this, it has assumed additional average capacity of 500 MW from Solar from Oct - 2013 and also it is expected 35 MW of additional Solar - PV and 50 MW of Solar Thermal would be added during FY 2013-14 (at a cost of ₹5.50/unit). Further to this, it also assumed, additional average capacity of 350 MW from wind would be installed for FY 2013-14 (at a cost of ₹ 4.55/unit).

The Andhra Pradesh Government has constituted a State Energy Conservation Mission for monitoring of energy conservation activities. The licensees are undertaking several energy conservation measures and demand side management steps to for enhancing efficiency. The licensees are also undertaking several loss reduction measures like HVDS implementation, energy audit, replacement by high quality meters, laying of AB Cables, etc to reduce both the technical and commercial losses. In APCPDCL, in order to comply one of the initiatives of energy conservation the replacement of the

ICLs with CFLs in APCPDCL jurisdiction has been taken up under Bachat Lamp Yojana in coordination with Bureau of Energy Efficiency (BEE). M/s C-Quest Capital Green Ventures Private Limited have been entrusted the above job. About 16.5 Lakhs CFLs have been distributed to households in 6 - operation divisions as part of EC measures. This will be continued with the same spirit in APCPDCL in a large scale for the rest of the areas. The quantum of energy being saved due to usage of CFLs in place of ICLs is assessed to the tune of 100 MW (approx) as of now. In SPDCL, M/s. Banyan Environmental Innovations Pvt. Ltd. has supplied CFL bulbs in BN Kandriga mandal of Chittoor District as a part of a pilot program. And not turned up afterwards for completion of pilot program so as to carry out energy audit. In EPDCL consumer were requested to utilize CFLs in place of Filament bulbs, minimize usage of Air Conditioners, geysers and avoid use of dryers in washing machines, use of more natural sun light and air to optimize use of Lights and fans, avoid wasteful working of Lights, Fans, TV and cell chargers etc when not required, T.V scrolling have been given for awareness on the Scheduled L.Rs and also on Energy Conservation tips through local cable TV networks by the Superintending Engineers /Operation. "Save Energy - Save Nation" campaign was conducted by T.V - 5 in coordination with APEPDCL. CMD / EPDCL participated in the Energy march and employees participated in interactive session. Demand - Response (D-R) pilot project being implemented for consumer awareness through M/s Neo Silica wherein the bill analysis for energy saving measures is made available to the consumer through web portal. Alternate lights in the corridors of EPDCL Offices kept switched off, LED based yard lighting introduced for 5 Nos Sub-Stations to replace with HPSV lamps for energy savings. The tender is in process for roll out to 600 Nos Sub-Stations through National Electricity Funding. Tender in process for fixing of LED Based retro fit lights in EPDCL Corporate office on pilot basis. 1 No. 600 KVA auto switched line capacitor installed on 11 KV Ch.Pothepalli feeder for minimizing re-active power management, on pilot basis. Tender is in process to roll out the same for 184 Nos 11 KV feeders through N.E.F, 2 Nos Solar Photo Voltaic based Streetlights installed in the lawns of EPDCL Corporate Office, Visakhapatnam and roll out is being planned for other offices of EPDCL, Tenders have been called for installation of 6 Nos 10 KW roof top power plants for EPDCL Corporate Office and circle office buildings; awarding of work is in progress, 30 Nos out of 57 villages are electrified under solar Photo Voltaic based direct distribution generation. Further work is in progress under REC schemes, A.P.E.P.D.CL has adopted 5-Star rated DTRs and

replaced about 12,000 Nos so far, for enhanced energy efficiency, For all New Service Connections to be released in APEPDCL in the Towns and for Agriculture sector 5-Star rated DTRs are being used, A proposal has been submitted for implementing CFL distribution project under special purpose vehicle mode with financial assistance of the Government of A.P for 3.8Lakhs Rural residential domestic consumers in Vizianagaram District, In the Agriculture sector , proposal has been sent to Hon'ble APERC for introducing incentive scheme to the agriculture consumers who adopts proper metering, D.S.M measures including energy efficiency pump sets and adoption of ID crops etc.

**Commission's View:** Promotion of energy conservation measures is one of the top most priorities of the Commission. All through the Tariff Orders, Commission has been advising the DISCOMs, by issuing directions wherever necessary, to promote energy conservation. Commission desires that the DISCOMs of AP should study and implement Energy conservation measures. The DISCOMs should take effective steps for creation of proper awareness among the consumers about the necessity of Energy conservation.

226. **Objections/Suggestions regarding response on DISCOM responses to APERC Directives:** Sri. R.H.N. Sharma has stated that, the compliance report on the Directives issued by APERC is ambiguous and vague.

**Licensee's Response:** The failed DTRs are replaced with in 24 hrs in urban areas and within 48 hrs in rural areas. This activity is being reviewed by the top management regularly.

- a. Publicity measures to increase awareness among the consumers about existence of CGRF will be further improved. Members are appointed as per the Regulations issued by Hon'ble APERC.
- b. The English version of GTCS is available in all section offices and is also placed in the website of APEPDCL for the purpose of reference of employees and general public.
- c. Publicity for utilizing the services of call centers is being given time to time through print & electronic media. And also a documentary was made about the call centers and posted in website.
- d. Measures taken by EPDCL for conservation of energy are enclosed.

**Commission's View:** DISCOMs are hereby advised to note the ambiguities in the compliance reports submitted by DISCOMs as pointed by objectors. The DISCOMs are directed;

*to submit their reports on compliance of directives, to the Commission once in every quarter at the end of 15 days of completion of each quarter and to upload a copy of such compliance reports on to their respective websites.*

**227. Objections/Suggestions regarding Theft of Power: Sri. R.H.N Sharma, Sri Swami Jagannmayananda & others** have raised the following objections;

Suitable electric meters must be provided at each transformer to notice and arrest power thefts on such lines. EPDCL is not taking any interest or active steps for regularizing the unauthorized additional loads prevailing in domestic and non-domestic services as per Sec. 126 of EA, 2003. It is serious lapse on the part of the licensee. APCPDCL is found very inactive in the matter of power theft in Hyderabad, South circle and has turned a blind eye to the directions of APERC given in Tariff Orders 2010-11 to 2012-13.

**Licensees' Response:** For identifying the addl. Loads, intensive inspections are being conducted and the additional loads are regularized. The Vigilance (DPE) wings are available in the DISCOMs who are exclusively conducting the inspections to detect the theft and any other unauthorized usage of supply by the consumers to increase the metered sales. The DPE wing is conducting the inspections in the Hyderabad South (Old City). As it is a sensitive area, there is a lot of resistance and opposition from the local people for inspections. Thus, by taking the help of the APTS wing, inspections have been conducted. The DPE wing is conducting the intensive inspections on high loss DTR areas along with Operation Engineers for verifications of bill stopped, UDC, Nil Consumption, not in use services and meter tamper services and conducting of special raids in rampant theft areas to book theft cases. Apart from the DPE wing, the operation staff is also booking cases where ever theft is noticed.

**Commission's View:** DISCOMs may examine the suggestion of the objectors to institutionalize DTR wise Energy Audit.

The DISCOMs should make use of latest technological advances in the areas of Metering, Information & Communication Technologies, to control the commercial losses.

228. **Objections/Suggestions regarding Availability of Staff: Sri. Meesala Basava Punniiah & others** have stated that, sufficient staff shall be provided at each and every village, of the DISCOMs to attend the repairs and faults in the system. Direct the DISCOMs to fill all the vacancies immediately. It was requested to make available the linemen as per the number of services. Usage of contract private workers for taking the meter readings every month is not correct and this was against the Act and Rules therein.

**Licensees' Response:** The recruitment notification for appointment to 1169 vacant posts in APCPDCL, 937 vacant posts in APEPDCL, 1316 vacant posts in APNPDCL of Junior Linemen was issued. The Hon'ble Division bench of the Hon'ble High court of AP in WP No.8794 of 2007 and batch cases has passed common orders on 14.03.2012 directing to review the entire selection process of junior lineman made in pursuant to the notifications, Dt: 08.06.2006 and 20.10.2006 restricting to the notified vacancies only. After completion of the entire review and complete compliance of the orders of the Hon'ble division bench of High of AP, the recruitment for notified JLM posts will be taken up. In NPDCL out of 1834 sanctioned Linemen posts only 108 post are vacant.

**Commission's View:** The DISCOMs should ensure compliance with the Standards of Performance. They should give utmost importance to improving service delivery.

229. **Objections/Suggestions regarding operation of Customer Service Centers (CSCs): Sri Swamy Jaganmayananda & others** have stated that, staff at CPDCL CSCs is delaying the entering of DDs for sanction of DTRs in the computers resulting in the alteration of seniority of application for power connection putting the farmer in to difficulty and hardship. DISCOMs shall give the SMS to the mobile phones of agriculture consumers giving the details of receipt no, sanction number & date, release of material. After releasing the service a copy of the material issued to the consumers and all relevant details shall be given to the consumer and other copy shall be recorded in the office. If the material is released in the system improvement of old system an acknowledgement from the consumer shall be taken from the concerned.

**Licensee's Response:** As per the existing procedure an acknowledgement certificate is being issued mentioning the registration number, registration date and details of the consumer after registering the application at the

customer service centre. That will be sent to the section office for the purpose of inspection of the consumer premises and further processing. Asst. Divisional Engineer/Operation who is the in charge of the customer service centre will monitor about the release of service. Informing the consumers about the release of service will be examined.

**Commission's View:** Effective supervision of services at CSCs is essential. DISCOMs should put in place effective mechanisms to ensure timely disposal of service requests and information dissemination to the consumers periodically about the status of processing of their applications.

230. **Objections/Suggestions regarding Accidents:** Sri K. Rajendra Reddy & others have stated that, compensations payable should be increased to ₹ 5 lakhs for human and ₹ 30,000 for cattle in case of death due to electrical accident. Compensations paying to the victims in case of deaths due to electrical accidents shall be paid in similar lines with Road accident cases. Compensations paying to the victims in case of deaths of cattle due to electrical accidents shall be paid as per the amount of loss declared by the veterinary officer. Many accidents are being occurred due to voltage fluctuations and home appliances are being burnt. Compensation is not being paid to the consumers. DISCOMs are not taking suitable action for preventing accidents. Process of paying compensation to the victims shall be made simple and transparent. CPDCL should provide AB Switches to the village Agriculture and domestic connection in order to avoid unfortunate deaths. The use of 6.7 KVA transformers for release of services may be abandoned as their use is leading to accidents. Service wire shall be provided from pole to the meter terminal point, so that accidents can be avoided. For domestic and agriculture connections the neutral wire is being connected to the transformer earth point. At dry areas, the transformer earths are not having sufficient moisture and thus they do not have sufficient earthing, due to which high voltages are fed to houses causing electric shocks, burning of equipment and causing the electrical accidents. Hence it is requested to run the neutral wire from substation instead of transformer.

**Licensees' Response:** Licensee is taking every effort for payment of ex-gratia to the deceased based on the genuinity of the accident, for the cases where the accidents occurred due mishap of nature and departmental faults ex-gratia is being paid immediately after receipt of the necessary documents



such as post mortem report, panchanama, legal heir certificate etc. The Discom is rectifying the loose spans, erecting the inter poles, providing the spacers and rectifying the AB switches to prevent the accidents. This is a continuous process. The earth wires near the single phase transformers are being replaced depending on the availability of funds. There are no voltage fluctuations in Greater Hyderabad area. In slum areas due to meddling with the lines consumers are facing the voltage fluctuations. In such areas the consumers are being educated to regularise their service by paying the requisite charges and the consumers are being requested to use standard internal wiring in their premises. The objector's opinion regarding provision of AB switches to avoid unfortunate deaths is not correct, in view of the fact that farmers are dying by meddling the AB switches existing at agricultural DTRs. A scheme was prepared by and submitted by SPDCL to the Energy Department for providing of neutral wire from the sub-stations to all 1-ph DTRs for an amount of ₹ 6222.28 Lakhs. Independent earthing to the HT neutral of the single phase transformers are being provided extensively and will be provided to all the transformers.

**Commission's View:** The quantum of compensations in such cases is based on a pattern evolved by the DISCOMs themselves from time to time. DISCOMs may examine the issue in the light of the views expressed by various Consumers / Consumer organizations, in the public hearings.

The Licensees have to attach utmost importance to the issue of safety. Effective steps for improving the Construction, Operation & Maintenance standards in distribution system, and prompt action for tightening of loose spans, straightening of lean poles, proper fencing with caution boards at DTR locations etc; will reduce the scope for accidents. The DISCOMs should undertake such activities regularly at periodical intervals.

DISCOMs should take effective steps for providing AB Switches at required locations to ensure safe operation of the system and to reduce the scope for accidents.

231. **Objections/Suggestions regarding Neutral wire:** Sri. M. Sridhar Reddy & others have expressed that, for domestic and agriculture connections the neutral wire is being connected to the transformer earth point. At dry areas,

the transformer earths are not having sufficient moisture and thus they do not have sufficient earthing, due to which high voltages are fed to houses causing electric shocks, burning of equipment and causing the electrical accidents. Hence it is requested to run the neutral wire from substation instead of transformer.

**Licensees' Response:** Earthing at each transformer is being provided with 2 nos of G.I and CI pipes by filling "Bentonite Compound" in the earth pits. Suggestion will be examined with respect to neutral wire from substations.

**Commission's View:** The Commission has already issued directions on this issue in the earlier tariff orders of 2009-10 and 2010-11 and still consumers are meeting with accidents due to failure of earthing. The Commission is continue to receive complaints and grievances and reports on avoidable loss of lives. The DISCOMS need to exhibit the desired level of sensitivity and concern. The Commission directs that:

*The licensees shall run neutral wire from 33/11 kV substations to all single phase transformers, in respect of both the existing and the new installations. Further the DISCOMs are directed to strictly implement earthing practices as per CEA Regulation on safety standards.*

232. **Objections/Suggestions regarding DTR Failures:** Sri. Sarampalli Malla Reddy & others have stated that, to Maintain ISI, BIS standards in erection of DTRs to achieve 0% DTR failure rate like in BESCOM. Due to overloading of transformers, the Agriculture pump sets are getting burnt and thousands of rupees are to be borne by the farmers for repairing. Healthy DTRS can be transported first to replace the failed DTR so that double transport charges can be avoided. The rate of failure of Distribution transformers is around 7%. If this is reduced to 2 % the technical and commercial losses will be reduced. The failed DTRs are not being repaired with in stipulated 24 hrs causing inconvenience to the consumers. There is laxity in the part of DISCOMs in procuring land for substations and erecting of transformers. DISCOMs are not taking any steps for replacement of aged conductors, rectification of loose lines, replacement of damaged poles and not maintaining the oil levels in DTRs. It is requested to take action for rectification of the above works. The DISCOMs are not responding for replacement of failed DTRs in case of theft is done. The concerned Superintending Engineer may be held responsible for replacement of failed DTRs.

**Licensee's Response:** Licensees has been procuring different types of material as per the Indian and international standards as prescribed by CERC through e- procurement. All these standards are also being mentioned in the tender specifications. All the procured equipment is being erected as per the R.E.C standards and following the safety standards as per D.E.A and EA-2003. Licensees have erected new transformers are being erected depending on the necessity and existing load on the distribution transformer. There are transformer repairing sheds for repairing the failed DTRs and for keeping stock of rolling stock of healthy DTRs. Failed DTRs are being replaced within 24 hours in towns and within 48 hours in rural areas as per the S.O.P norms. The Discom has provided one transport vehicle at each sub-division office for transportation of DTRs to replace the failed DTRs by the department only. APNPDCL has launched a new programme "RYTHU MITHRA" in January 2013 for replacement of Failed DTRs. Farmers can call to the phone number 9440811222 and give the information of the failed DTR which can be recorded in computer and information will be passed to the concerned field officers through SMS. Licensees have taken up rectification of earthings, AB Switches, HG fuse sets, replacement of LT cable and fuse carriers for transformers, load balancing of transformers, rectification of oil leakages in transformers, Erection of inter poles, replacement of damaged and rusted poles, rectification of stays, replacement of spans of conductor and re stringing of spans of loose lines. Obtaining the daily reports from concerned Superintending Engineers about the theft of DTRs will be examined. In EPDCL, the required mechanism for replacement of the theft DTRs were made available in the E.P.I.M.R.S which will be take-up to all areas very soon. The details of failed DTRs like location, time of failure and replacement time are being displayed at all section offices, Sub -division offices and Division Offices.

**Commission's View:** Delays in replacement should be avoided to minimize the hardships to agricultural consumers. The DISCOMs are expected to comply strictly with standards of performance relating to replacement of failed distribution transformers.

233. **Objections/Suggestions regarding Single Phase supply near Agriculture Pump-sets:** Sri C. Chinna swamy, D. Narasimhulu Naidu & others have stated that, it was requested to arrange Single phase supply near agriculture pump sets for providing a bulb.

**Licensee's Response:** Presently 3-phase supply is being provided for 7 hours through the 3 phase distribution transformer. Single phase supply is being provided during the balance period through 11 kV line and so single phase supply will not be available under the three phase distribution transformer area. The suggestion cannot be implemented now.

**Commission's View:** The Commission has examined the issue and is of the view that extension of single phase supply is not feasible in the given circumstances.

234. **Objections/Suggestions regarding Quality of power supply:** Sri Ch.Diwakar Babu & others have expressed that, the agriculture pump sets are getting burnt due to not maintaining the quality of power supply. Farmers are bearing thousands of rupees for getting them repaired. Hence it is requested to bear the cost by the DISCOMs for failure of Agl pumps sets in the event of lack of quality of supply. Power supply shall be made available in rural areas on par with urban areas. In rural areas continuous power supply to be provided at least from 06.00 PM TO 06.00 AM. Rural areas are not getting even 6 or 7 hours of electric supply. Hon'ble Commission is requested to direct the DISCOMs to evaluate methods for providing 24 hours of supply to rural areas. Lay separate feeders for providing 24 hrs supply to rural areas. Uninterrupted power supply shall be maintained to the health care centre in Kothakota in SPDCL. Uninterrupted power supply shall be given to KG Hospital at Visakhapatnam. Proper maintenance and patrolling of lines are required to avoid sudden occurrence of failure of supply, break downs and interruptions. PMI s should be done strictly. We request the commission to direct the DISCOMs to attend to the problems of farmers, particularly in improving the quality of power supplied and repair and maintenance of distribution transformers.

**Licensee's Response:** Licensees have replied that 7 hours power supply is being given to agriculture consumers. Due to usage of low quality pump sets, repaired pump sets and non-fixing of LT capacitors, the pump sets are getting burnt. Taking steps to bring awareness about DSM measures to protect the pump sets from getting burnt. Further in case of overload of DTRs, additional transformers are erected. To improve the quality of supply HVDS is being implemented. Even in case of power deficit agriculture will be given high priority by giving 7 hrs supply by imposing load reliefs to industry, domestic,

commercial and other sectors EPDCL has further replied that as per SOP norms the failed DTRs are being replaced. Feeder wise MRI dumps are analysed for more transparency. In every sub-division one van is made available for replacement of DTRs In every substation capacitor bank is arranged to improve power factor.

EPDCL has taken up pilot projects in selected mandals of five districts of the Discom for providing 24 hrs supply to rural areas have been completed. Other licensees replied that infrastructure like transformers, lines were already provided to facilitate 24 hours single phase supply in rural areas. Due to huge deficit between demand and supply the Licensee is unable to give 24 hours power supply to rural areas.

At present there is already a G.O. to exempt KGH from load reliefs. However power cuts are imposed as the service is on a common feeder. If the KGH authorities apply for a dedicated feeder they can get exemption from power cuts. Further, the P.M.I. is being conducted every year across the DISCOM as per the schedule. The defects noticed during the P.M.I. are attended to ensure reliability of supply.

No discrimination is shown between agricultural category consumers and other categories consumers in providing quality of power supply and attending R&M works of Distribution Transformers. The difference is only between rural areas and urban areas in respect of standards of performance because it takes lot of time to approach remote rural areas due to lack of proper transportation facilities and communication network.

Providing 24 hrs supply to primary health care center will be examined if the concerned Health Care centre comes forward to bear the expenditure of erection of new line.

**Commission's View:** The DISCOMs are advised to provide quality power supply. Consumers also should cooperate by adopting the prescribed DSM measures and use good quality pump-sets.

235. **Objections/Suggestions regarding UG cabling system:** Sri G. Malyadri has requested to provide UG cable system in the roads in the route of Govindaraja Swamy's Chariot in Tirupathi.

**Licensee's Response:** The suggestion will be examined if T.T.D, comes forward to bear the relevant expenditure.

**Commission's View:** The licensee's response is satisfactory.

236. **Objector's Suggestion regarding Documents in Telugu:** Sri J.Sree Ranga Rao & others have expressed that the Tariff Order should be made available in Telugu. It was suggested to issue the bill in Telugu.

**Licensees' Response:** The matter is under the purview of the Hon'ble Commission.

**Commission's View:** With regard to the suggestion of issuing the Bills in Telugu, the Licensees may take necessary action. With regard to making available the Tariff Order copies in "Telugu", the Commission has already made available certain tariff orders in Telugu. The Commission is endeavoring to issue the ensuing tariff orders also in Telugu in keeping with the policy of the Commission.

237. **Objections/Suggestions regarding combined bills for agriculture and domestic:** Sri P. Venkateshulu Naidu, Sri.Kodanda Reddy & Others have expressed that, the electricity charges for domestic and agriculture shall not be combined in one bill. They shall be separately issued.

**Licensee's Response:** For the beneficial of the consumers, the customer charges for agriculture services are included in the Domestic bill. So that the customer can pay both the charges at a time and lots of time will be saved for consumer as well as for the Discom.

**Commission's View:** The licensees are advised to strictly follow the provisions contained in the Electricity Act, 2003 and the General Terms and Conditions of Supply (GTCS).

238. **Objections/Suggestions regarding proforma of agreement:** Sri. Meesala Basava Punnaiah and Repalle Consumers' Council & others have stated that, the proforma of Agreement at the time of getting the power supply which was in the Electricity Supply Act, 1948 was still not changed even though the Act was repealed.

**Licensee's Response:** Agreements are being entered with the consumers as per the General Terms and Conditions of Supply (GTCS) 2006 and Indian Electricity Act, 2003.

**Commission's View:** Proformas of LT and HT supply agreements, have been enclosed to the approved General Terms & Conditions of Supply (GTCS) issued by the Commission, pursuant to the Electricity Act, 2003 in 2006.

239. **Objections/Suggestions regarding Bill collection centres:** Sri K. Sai Reddy & others have stated that, the DISCOMs are not arranging sufficient number of bill collection centres and consumers are paying electricity bills in e-seva and mee- seva centres by paying an extra charges of Rs 30/ per bill. It is requested to frame regulations to provide bill collection centres based on the no. of consumers and provide sufficient staff. E-seva centres are collecting additional amount over and above the amount mentioned in the electricity bill. Hence requested the Commission to direct the DISCOMs not to allow collection of additional amounts from the electricity consumers while paying bills at the e-seva centres.

**Licensee's Response:** At present DISCOMs are not paying any transaction charges to e-Seva, because they are collecting transaction charges from citizens directly as per the G.O.Rt.No.31, dated 22.02.2012 on Bill Ranges. Further, licensees have arranged sufficient counters at each Electricity Revenue Offices, Section Offices, etc in each Circle. Already net payment options are available in our website i.e. [www.apcentralpower.com](http://www.apcentralpower.com) which is easy to pay electricity bill to avoid rush at counters. Further, APCPDCL is implementing INTER MOBILE PAYMENT SOLUTION duly contacting City Bank.

**Commission's View:** The Commission has noted that different DISCOMs have been adopting different innovative mechanisms for more effective collection of bills. These initiatives are very useful not only to the consumers, but also to the DISCOMs. The DISCOMs are advised to interact with each other closely and replicate the good practices that are achieving successful results wherever they have been tried.

240. **Objections/Suggestions regarding implementation of Standards of Performance (SOP):** Sri Rajendranadh Reddy, Sri J.Sree Ranga Rao, Sri K. Sai Reddy & others have stated that, the APERC has directed the DISCOMs to bring awareness among the consumers regarding the SOP, consumer's rights

and their responsibilities. DISCOMs have not taken any action on this. Review of standards of performance (SoP) is not fulfilled since 3 years. The loss being sustained by the complainants due to non revision is considerable and we are unable to understand the attitude of the Hon'ble Commission in this regard. We demand an exclusive public hearing to be conducted by the Hon'ble commission to set right the anomalies in the existing SOP. No compensation is being paid by the licensee to the consumers of the villages and Towns where supply is not available from 6AM to 6PM.

**Licensees' Response:** Boards displaying the address and phone numbers of CGRF are being displayed at Circle offices, Division offices, Sub-division offices, Customer Service centres and EROs. Slides are also being displayed in Cinema Theatres. The consumers are being educated about the CGRF during the local meetings. Audio visuals were also kept in the EPDCL website.

**Commission's View:** The DISCOMs should take effective steps for dissemination of information regarding SoP, consumer rights, CGRFs and Ombudsman, in order to increase the levels of awareness regarding consumer protection and consumer safety measures, particularly among the consumers of the rural areas.

The DISCOMs should strive to achieve the standards of performance as prescribed.

241. **Objections/Suggestions regarding CGRF:** Sri P. Venkatramulu & others have stated that, the Consumer member in CGRF has to be filled up immediately.

**Licensee's Response:** Hon'ble APERC has invited the applications for appointment of the consumer member in CGRF. However, the issue is under the purview of Hon'ble Commission.

**Commission's View:** As assured in the Public Hearings & the 19<sup>th</sup> SAC meeting held on 01-03-2013, Commission has appointed 4<sup>th</sup> Member, in all existing five CGRFs in the DISCOMs, to be in office with effect from 1<sup>st</sup> April 2013, for a period of two years.



242. **Objections/Suggestions regarding Vidyut adalats:** Sri. R.H.N. Sharma has stated that, Vidyut adalaths are not being conducted every Monday at section offices as prescribed by APERC.

**Licensee's Response:** Vidyut adalats are conducted at section offices. In Corporate Office "Spandana" is being conducted every Monday to resolve the grievances. CMD/ APEPDCL along with Directors, senior officers attend to the grievances of consumers. Also provision is made on the EPDCL website to register online complaints and the top management is monitoring the resolutions.

**Commission's View:** The DISCOMs are advised to conduct the Vidyuth Adalaths regularly as formulated by them.

243. **Objections/Suggestions regarding Online compliant number:** Sri K. Vanadri Naidu, Sri. M. Sridhar Reddy & others have stated that, the State Govt has declared in newspapers that they will provide an online compliant number for each district. So far such online telephone compliant system has not taken place. APERC is requested to bring that system in to reality.

At present the center is handling complaints from the consumers of Municipalities /corporations. A toll free number (155333) has been provided for this center. So, this facility is restricted to consumers of Municipalities /Corporations. What about Rural consumers?

Requested for providing automatic compliant recording system at each substation level.

**Licensee's Response:** CPDCL has provided 24 hours Toll-free number 18004253600 for registering the complaints about the Distribution transformer failures from the consumer. EPDCL has provided 24 hours Toll-free number 180042555333 has been provided for registering the complaints about the Distribution transformer failures from the consumers. APNPDCL has initiated a new programme "RYTHU MITHRA" for replacement of failed DTRS in January'2013. The consumers have to call 9440811222 and give the information of failed DTR. That will be registered in the computer and an SMS will be sent to the concerned field staff for replacement of failed DTR. And the failed DTR will be replaced with another healthy transformer by the vehicle provided under "RYTHU MITHRA" within 48 hours.

**Commission's View:** The DISCOMs are advised to share their experiences regarding successful best practices, so that such initiatives are implemented across the state.

244. **Objections/Suggestions regarding Colouring of Material for Agriculture System:** Sri. M. Sridhar Reddy & others have, requested to arrange for different colour material for utilising in electric works of agriculture system to ensure correct utilisation.

**Licensees' Response:** Suggestion will be examined.

**Commission's View:** If not colour coding as suggested, the DISCOMs should evolve effective mechanisms to arrest the misuse of materials allotted for Agriculture services.

245. **Objections/Suggestions regarding Quality of material:** Sri C. Chinna Swamy, J. Rama Rao and D. Narasimhulu Naidu & others have stated that, It was requested to maintain the quality of material for 11 KV system like cross arms, disc insulators, Poles etc.

**Licensees' Response:** The procured material will be tested in the stores before accepting the material. If the sub standard materials are found they will not be accepted.

**Commission's View:** Licensees should ensure that the equipment and the materials being procured by them comply with the relevant standards.

246. **Objections/Suggestions regarding Erection of DTR:** Sri M. Sridhar Reddy & others have raised that, the payments to the contractors for erection of new DTR and repairing of DTR shall be made after due certification of the relevant consumers only.

**Licensees' Response:** Suggestion will be examined.

**Commission's View:** The DISCOMs may institute procedures for Verification of erection of new / repaired DTRs before releasing payments to contractors.

247. **Objections/Suggestions regarding HVDS system:** Sri M.Thimma Reddy has raised the following objection;

In Andhra Pradesh a power factors of 0.70/0.80 reflect the prevailing situation. Under these conditions it takes 37 to 48 years to recover the investment made in to the HVDS system. Let alone profits over it. In other words the payback period for these investments is about 37 to 48 years. The guaranteed life of these transformers is about 3 years and its life may extend up to 10 years, but it's payback period is several times more. Thus, financially speaking the HVDS does not appear to be attractive. Still the DISCOMs in the state are rushing in to implement it on large scale. One of the important reasons shown in promoting the HVDS system was elimination of unauthorized agriculture connections and theft. Experience in other states like Rajasthan and Uttar Pradesh shows that HVDS is not a deterrent to these practices and even under HVDS system theft continues to take place. Noida power company limited (NDPL) in UP which went in to HVDS on a large scale is now thinking about winding it up. Thus requested the Commission to review the past implementation of the HVDS in the state and also to put the presently proposed scheme with the support of JIBC to strictest test. Requested the Commission to direct the DISCOMs to provide the information on amount spent on HVDS and number of pump-sets converted to HVDS each year since the programme was taken up. Further stated that each DISCOM shall give break up of paid connection, HVDS metered connection, DT metered connection and total connections; their connected load and consumption. The AB switches have to be provided to mother DTR in HVDS system

**Licensee's Response:**

**CPDCL Response:**

Sl. No.	Name of the District	Total No. of Pump sets in CPDCL	No. of Pump sets covered upto 1/2013 in HVDS Schemes	Cumulative Expenditure incurred upto 1/2013 in HVDS	Total Pump sets to be taken up for 2013-16	Cumulative Expenditure for 2013-16
1	Anantapur	178418	30261	63.85	21934	107.67
2	Kurnool	101792	10124	49.15	14551	69.48
3	MBNR	196489	40384	101.43	21178	114.73
4	Medak	211277	10063	40.83	27184	139.03
5	Nalgonda	292244	52876	145.16	30443	137.62
6	Ranga Reddy	107482	9829	50.00	15280	64.35
Total		1087702	153537	450.42	130570	632.88

**EPDCL Response:**

The Status of Phase wise conversion of Agl pump sets into HVDS in EPDCL is

Phase	Name of the districts	No. of Agricultural Pump sets converted under HVDS	Scheme cost (₹ In Crs.)
Phase-I	Srikakulam, Vizianagaram, East Godavari Dist. and West Godavari Dist.	16856	74.46
Phase-II	East Godavari Dist. and West Godavari Dist.	12361	93.76
Phase-III	Srikakulam, Vizianagaram, Visakhapatnam, East Godavari Dist. and West Godavari dist.	44844	171.16
Phase-IV	West Godavari	4285	84.09
Phase-V	Srikakulam, Vizianagaram, Visakhapatnam	212	100.69
Total EPDCL		78558	524.20

**NPDCL Response:**

2004-06		2006-07		2007-08		2008-09		2009-10	
No. of Pump Sets	Amount in ₹ Crs.	No. of Pump Sets	Amount in ₹ Crs.	No. of Pump Sets	Amount in ₹ Crs.	No. of Pump Sets	Amount in ₹ Crs.	No. of Pump Sets	Amount in ₹ Crs.
44729	83.13	5232	6.52	14437	35.44	13672	50.63	77648	68.35

**SPDCL Response:**

In Southern Power Distribution Company of A.P. Limited High Voltage Distribution System (HVDS) are being carried out to improve voltages at consumer end, reducing line losses, avoid theft of energy and minimize the power supply interruptions for agricultural consumers. High Voltage Distribution System (HVDS) works were completed in Ist phase in 2005-06 under 88 Nos. of 33/11 KV Sub-Stations at a cost of ₹ 350.79 Crs. under REC funding. In phase-II HVDS works were carried out in 2007-08, 2008-09 & 2009-10 under 71 Nos. 33/11KV Sub-Stations in Chittoor District and 70 Nos. 33/11KV Sub-Stations in Kadapa District at a cost of ₹ 565.53 Crs. under KfW funding. For balance Sub-Stations in Chittoor and Kadapa Districts & other Districts Krishna, Guntur, Prakasam, Nellore the HVDS works are under progress during the year 2011-12 at an agreement cost of ₹ 726.62 Crs. under REC funding. For the balance HVDS works in Krishna, Guntur, Prakasam, Chittoor & Kadapa Districts the scheme proposals were sanctioned with an estimated cost of ₹ 125 Crs. under JICA funding. Further, the tenders were

floated and finalized for all 5 packages one in 5 districts. The notice to proceed with work was issued to the eligible contractors and survey work is under progress. Agreements have been entered for two packages and for the balance 3 packages agreement will be entered within one week. SPDCL plans to complete all the works by 02/2015. AB switches are being provide to all the mother DTRs and to 11 kV line going to group of DTRs in HVDS system.

**Commission's View:** The DISCOMS are advised to follow the construction standards while erecting of distribution transformers in HVDS schemes.

248. **Objections/Suggestions regarding availability of annual report:** Sri K.Rajendra Reddy and others have stated that, the Annual Report of the previous year of the licensee should be released along with public hearing notifications and it should be made available to the public along with A.R.R. copies at a reasonable cost as it is a very important document to assess the financial performance of the licensee.

**Licensee's Response:** The contents are noted.

**Commission's View:** The DISCOMs shall provide copies of the audited annual accounts in their websites.

249. **Objections/Suggestions regarding metering in single bulb consumers:** Sri D.Ramaswamy Reddy has stated that, the APSPDCL is not providing meters for Single Bulb consumers.

**Licensee's Response:** Every service is being metered except agricultural services.

**Commission's View:** APSPDCL shall provide meters for all single bulb consumers.

250. **Objections/Suggestions regarding meter readings:** Sri R.H.N. Sharma & others, have raised an objection that, the Meter readings are not been taken on fixed dates as per rule resulting hardship to the consumers due to increase of amount.

**Licensee's Response:** It is programmed to take Meter readings on prescribed dates. However, surprise inspections are being carried out and check readings are taken to control irregularities in meter readings.

**Commission's View:** The DISCOMs should follow Clause 4.1.2 of Electricity Supply Code Regulation (Regulation No. 5 of 2004) issued by the Commission scrupulously.

251. **Objections/Suggestions regarding utilization of poles:** Sri R.H.N. Sharma & others, have stated that, the electric poles are being misused by various private organisations for their advertisements without any permission of the company. The management of EPDCL is not paying the attention to prevent the same. The company is losing legitimate non-tariff income.

**Licensee's Response:** Will be examined.

**Commission's View:** The DISCOMs should take effective steps to prevent unauthorized use of DISCOM poles for commercial purposes by private persons.

252. **Objections/Suggestions regarding regularization of unauthorized additional loads:** Sri. M. Sridhar Reddy, R.H.N. Sharma & others, have stated that, the licensee is not taking any interest or active steps for regularising the unauthorised additional loads prevailing in domestic and non-domestic services as per Sec. 126 of EA, 2003. It is serious lapse on the part of the licensee. Necessary instructions may be issued.

**Licensee's Response:** For identifying the addl. Loads, intensive inspections are being conducted and the additional loads are being regularized.

**Commission's View:** The DISCOMs shall conduct periodical inspections and take steps to regularize the unauthorized additional loads as per the General Terms and Conditions of Supply (GTCS).

253. **Objections/Suggestions regarding late payment charges:** Sri J Rama Rao & others have stated that, the proposals of APSPDCL for collection of late payment charges for different categories in different rates, demand and collection of LPF surcharge on the capacitors installed, collection and levy of back billing in certain cases where the meter seals are found correct and intact, collection of testing charges from consumer for testing of meter are not correct.

**Licensee's Response:** In the Tariff Order for the FY 2012-13, the default fee system was replaced with a new system for levy of a flat fee for the consumers who fail to pay their bills within the due date. It is proposed to continue the same for the FY 2013-14. The new system introduced is to habituate all the consumers to pay their bills within the due date. The result of the newly introduced system is quite encouraging and the no. of consumers in the defaulters list were considerably reduced compare to the previous years.

kVAh billing was introduced from 2010-11. For the consumers having induction motors and / or welding transformers and for whom LT Tri-vector meter is not provided (except LT-1 domestic) supply shall be disconnected if it is found that the capacitor of suitable rating is not installed or the installed capacitor is found defective or cease to function with a prior notice, apart from levy of surcharge as indicated in clause 12.1.1 of General Terms & Conditions of supply approved by the honourable APERC. The above procedure is being followed. Back billing is being normally proposed under the following circumstances.

1. During meter readings or during inspections, if the meter is found defective (i.e. not recording the actual consumption due to its internal defect) it is necessary to assess the actual consumption utilized by the consumer and a back billing is being proposed.
2. If it is found any improper / short billing, back billing is being proposed.
3. And in case the consumer is utilizing supply for the purpose other than the authorized, back billing is being proposed.

As per clause 7.3.3 of General Terms & Conditions of supply approved by the Hon'ble Commission, The consumer shall be entitled on submission of application along with required fees to the Company's Designated Officer to have a special test of the meter carried out at any time. If the meter is found defective the Company shall bear the cost of testing and if the meter is found to be correct the expenses of such test shall be borne by the consumer. Such meter shall be deemed to be correct if the limits of error do not exceed those laid down as per Rule 57 of the Indian Electricity Rules, 1956. These orders shall be followed by the licensee.

**Commission's View:** In the current tariff order, this issue has been addressed.

## CHAPTER-X REFERENCE TARIFF SCHEDULE

### INTRODUCTION

254. In this chapter, the Commission is preparing a Reference Tariff Schedule by making certain modifications to the tariff rates (both energy and fixed) proposed by the licensees in the light of the objections/suggestions/views raised by consumers/ organizations in writing and during public hearings. In the preparation of this retail tariff schedule, the Commission is also making certain further modifications from the view point of better cost recovery, better load monitoring, better energy conservation and better enabling of improved standards of performance, ensuring tariff to reflect cost, limiting cross subsidization, avoiding tariff shocks, factoring in GoAP policies on supply to agriculture, etc. In this chapter, the Commission is also examining certain additional proposals for charges for FY 2013-14 made by Licensees and determining the same from the point of better revenue collections and enabling better standards of performance.
255. To achieve the above objectives, the Commission is adopting the following approach;
- Keeping the rates/charges unchanged as filed by the Licensees, for the consumer categories, for which the rates/charges proposed by licensees is leading to reasonable cost recovery.
  - Enhancing the rate/charge higher than the rates/charges proposed by Licensees for some consumer categories for which the rates/charges proposed by licensees is not leading to reasonable cost recovery.
  - Keeping the rates/charges unchanged as filed by Licensees for certain agricultural consumer categories which are traditionally receiving subsidy under section 65 of the Act.
  - Reducing the rates/charges for certain consumer categories for which the Licensees proposed tariff hike cannot be accepted from the view point of cost-tariff alignment and limiting cross subsidization.

### OBJECTIONS/SUGGESTIONS ON CROSS SUBSIDY

256. **Objections/Suggestions relating to cross subsidization:** Many Objections/Suggestions are related to steep increase in tariff against limited



increase in cost of service for Licensees for FY 2013-14. The objectors have stated that if the proposed tariff is approved by the Commission, the underlying cross subsidization will increase which is against principles stated in the Electricity Act, 2003 and Tariff Policy announced by Gol.

**Licensee's View:** There has been a tremendous increase in CoS. As against the approved Cos for FY 12-13 of ₹ 4.44/Unit, the projected CoS for FY 13-14 is ₹ 5.61/Unit. Unless this additional cost is recovered from the consumers, the financial health of the licensees is bound to get impacted. The licensee has proposed hike in tariff mainly because of increase in the power purchase cost and Cost of Service .There has a large increase in the average PP cost at state level and is projected to be at ₹ 4.07/unit for FY 2013 -14 as against ₹ 3.10/unit for FY 2012-13 as approved by Hon'ble Commission. This indicates an increase of 32% over current year mainly due to reduction in availability from gas based IPP's, lower hydel availability, increased dependence on imported coal and higher quantum of power purchase from bilateral sources and RLNG.

**Commission's View:** The objections/suggestions have been noted by the Commission with regard to reduction of cross subsidies. The Electricity Act, 2003 stipulates the gradual reduction of cross subsidies .The Commission, in this Order, has endeavored to limit the cross subsidization for many of the consumer categories which pay the tariff more than the cost of service through approving the tariff less than the tariff proposed by Licensees for FY 2013-14 in their filings.

257. **Objections/Suggestions regarding "Tariff to be within  $\pm$  20 percent of CoS":** Some persons have raised the issue that the tariff for a consumer category shall be within  $\pm$ 20 percent of Cost of Service as per stipulations of Tariff Policy announced by Gol. The objectors stated that the proposed tariff by Licensees and the underlying costs violates this norm for many consumer categories for FY 2013-14.

**Licensee's View:** The National Tariff Policy states that the tariff should be within  $\pm$  20% of the average cost of supply. The average CoS for the licensees (all the DISCOMs) is ₹ 5.61/unit. Proposed tariffs by the Licensee are well within  $\pm$  20% of average cost of supply as per National Tariff Policy for maximum categories. Licensee would like to achieve the above for remaining categories in due course of time. The licensee has ensured that the increase

is lower for those categories whose tariff differs with CoS by a higher margin as compared to other categories.

**Commission's View:** Adherence, at one go, to the stipulation of Tariff Policy that "Tariff to be within  $\pm 20$  percent of CoS" for all consumer categories, as sought by the objectors, will lead to tariffs with excessive variations as compared to existing tariff levels.

Hence, the Commission is adopting the approach of progressive adherence to the "Tariff to be within  $\pm 20$  percent of CoS" in a gradual manner to avoid tariff shocks for certain consumer categories. The Commission, as far as possible, has made attempts in this tariff order to comply with the stipulation of National Tariff Policy by limiting the tariff hike to reasonable levels, keeping in view the increase in CoS.

#### **ENERGY CHARGES**

258. For the Reference Tariff Schedule, energy charges have been arrived at by making changes to certain filing rates while considering the objections/suggestions, revenue requirement and other statutory provisions relating to tariff fixation.

#### **OBJECTIONS/SUGGESTIONS ON ENERGY CHARGES**

259. **Objections/ suggestions relating to LT-III: Industrial Tariff:** The power loom tariffs are not to be increased. In Tamilnadu upto 500 units free supply being given and 500-1000 units 50% subsidy is given. Requested to reduce the tariff for Power looms up to 10 HP. Government shall provide 75 % tariff subsidy to the power loom industry.
- The tariff for LT- Category -VI(A) for small Panchayats is ₹ 2.37 per unit and it is proposed to enhance the tariff to ₹ 5.24 per unit. There is no income source for the small Panchayats. Hence it is requested to keep the existing tariffs for LT- Category -VI (A) for small Panchayats.
  - The high tariff rates are being fixed for street lighting category due to which there will be huge burden on the GHMC and also affects the maintenance of the street lights. The charges are to be reduced.

- The industrial tariff rates are being applied for HMWS&S and it is not correct to fix industrial tariff for HMWS&S which is supplying drinking water to the people.

**Licensee's Response:** Even though the prices for other commodities has increased, the tariffs for electricity has not been increased from 2001 to 2011. The COS has expected to increase from APERC approved figure of ₹ 4.35 to ₹ 6.00 per unit for FY 2013-14. Despite reduction of losses and taking up energy conservation measures, it has become inevitable for the licensee to propose tariff hikes. The COS for LT-VI category is ₹ 6.93 per unit. As per NTP the tariffs shall be within +/- 20% of COS. For LT-VI, the tariff shall not be less than COS of ₹ 5.54 per unit. Hence for Panchayats ₹ 5.24 /unit and for municipalities, corporations ₹ 5.74 /unit are proposed. Due to increase in Cost of Service (COS), the licensee has proposed increase in tariffs to local bodies along with other category of consumers. Considering their paying capacity of the gram panchayats, the tariffs are proposed much lower than the municipalities and corporations.

**Commission's Decision:** The Commission, has examined all the above consumer objections/suggestions on energy charges proposed by the Licensees and has accommodated the objections/suggestions which are practical and can be met in the overall tariff setting process. The energy charges in the Reference Tariff Schedule for FY 2013-14 shall be as given in Table 41.

**Table 41: APERC Proposed Energy Charges for FY2013-14**

Consumer Category	Energy Charge (₹/Unit)
<b>LT-I: DOMESTIC</b>	
LT I(A): Upto 50 Units/Month	1.45
LT I(B): Above 50 Units/Month (Telescopic)	
First 50	2.60
51-100	3.25
101-150	4.88
151-200	5.63
201-250	6.38
251-300	6.88
301-400	7.38
401-500	7.88
Above 500	8.38
<b>LT-II: NON DOMESTIC/COMMERCIAL</b>	
LT II(A): Upto 50 Units/Month	5.40
LT II(B): Above 50 Units/Month (Telescopic)	
First 50	6.63
51-100	7.38
101-300	8.13

Consumer Category	Energy Charge (₹/Unit)
301-500	8.63
Above 500	9.13
<b>LT II(C):ADVERTISEMENT HOARDINGS</b>	11.03
<b>LT-III:INDUSTRY</b>	
Industries	6.08
Seasonal Industries (off season)	6.75
Pisciculture/Prawn culture	4.63
Sugarcane crushing	4.63
Poultry farms	5.63
Mushroom & Rabbit Farms	5.63
Floriculture in Green House	5.63
<b>LT-IV:COTTAGE INDUSTRIES</b>	
Cottage Industries	3.75
Agro Based Activity	3.75
<b>LT-V:AGRICULTURE</b>	
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES</b>	
Corporate Farmers & IT Assesses	2.50
Wet Land Farmers (Holdings >2.5 acre)	0.50
Dry Land Farmers (Connections > 3 nos.)	0.50
Wet Land Farmers (Holdings <= 2.5 acre)	0.00
Dry Land Farmers (Connections <= 3 nos.)	0.00
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES</b>	
Corporate Farmers & IT Assesses	3.50
Wet Land Farmers (Holdings >2.5 acre)	1.00
Dry Land Farmers (Connections > 3 nos.)	1.00
Wet Land Farmers (Holdings <= 2.5 acre)	0.50
Dry Land Farmers (Connections <= 3 nos.)	0.50
<b>LT-V(C):OTHERS</b>	
Salt farming units with CL upto 15HP	3.70
Rural Horticulture Nurseries	3.70
<b>LT-VI:STREET LIGHTING AND PWS</b>	
<b>LT-VI(A):STREET LIGHTING</b>	
Panchayats	5.37
Municipalities	5.87
Municipal Corporations	6.37
<b>LT-VI(B):PWS SCHEMES</b>	
Panchayats	4.37
Municipalities	5.37
Municipal Corporations	5.87
<b>LT-VII:GENERAL</b>	
<b>LT-VII(A):GENERAL PURPOSE</b>	6.53
<b>LT-VII(B):RELIGIOUS PLACES</b>	4.70
<b>LT-VIII: TEMPORARY SUPPLY</b>	9.43
<b>HT-I:INDUSTRY</b>	
<b>HT-I(A):GENERAL</b>	
11 kV	5.73
33 kV	5.30
132 kV & Above	4.90
<b>LIGHTS AND FANS</b>	
11 kV	5.73
33 kV	5.30
132 kV & Above	4.90
<b>INDUSTRIAL COLONIES</b>	
11 kV	5.68

Consumer Category	Energy Charge (₹/Unit)
33 kV	5.68
132 kV & Above	5.68
<b>SEASONAL INDUSTRIES</b>	
11 kV	6.90
33 kV	6.28
132 kV & Above	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>	
11 kV	6.73
33 kV	6.30
132 kV & Above	5.90
<b>HT-I(B):FERRO ALLOY UNITS</b>	
11 kV	5.41
33 kV	4.98
132 kV & Above	4.58
<b>HT-II:OTHERS</b>	
11 kV	6.90
33 kV	6.28
132 kV & Above	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>	
11 kV	7.90
33 kV	7.28
132 kV & Above	7.03
<b>HT-III:AIRPORTS,BUS STATIONS AND RAILWAY STATIONS</b>	
11 kV	6.58
33 kV	6.01
132 kV & Above	5.72
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>	
11 kV	7.58
33 kV	7.01
132 kV & Above	6.72
<b>HT-IV:IRRIGATION, AGRICULTURE AND CPWS</b>	
Government LIS	5.37
Agriculture	5.37
CPWS	4.39
<b>HT-V:RAILWAY TRACTION</b>	6.36
<b>HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES</b>	5.68
<b>HT-VII:GREEN POWER</b>	10.78
<b>HT-VIII:TEMPORARY(1.5 times of corresponding HT Category)</b>	
<b>RURAL ELECTRIC CO-OPERATIVES</b>	
Anakapally	1.32
Chipurupally	0.55
Sircilla	0.86
Kuppam	0.34
* Equivalent flat rate tariff per Year	

## DEMAND/FIXED CHARGES

260. The Commission has examined the licensees' proposals on fixed/demand charges, analyzed the objections/suggestions on filings and also examined the current level of fixed/demand charges for each consumer category for fixation of the fixed/demand charges for FY 2013-14.

## OBJECTIONS/SUGGESTIONS ON DEMAND/FIXED CHARGES

261. **Objections/Suggestions regarding Demand charges for HT-VI:** Townships and Residential Colonies: For HT-VI consumers, the power is availed at 11 kV and at single point. Unlike Industry/ Commercial consumers, the load factor of domestic consumers is very less and would be 20% to 30%. In general, the Demand charges would be levied for those consumers who consume considerable energy (High load factor consumers). If Demand charges are levied for low load factor consumers and if it is distributed on all units, the per unit rate component would be very high. For the reasons mentioned above, levying Demand charges on domestic consumers (HT-VI) is not justifiable. Instead of two part tariff, single part tariff consisting of both variable and fixed component on per unit basis may be charged. Alternatively, demand charges may be fixed at ₹ 25/kVA for accounting the demand.

The tariff for HT -VI consumers, should also be less when compared to LT-I for the following reasons:

- a) The billing is done for kVAh units compared to kWh for LT domestic.
- b) kVAh units are more when compared to kWh. Losses are less for HT distribution.
- c) The transformer is owned and maintained by HT consumer.
- d) The development charges are more for HT consumers, ₹ 1500/ kVA, compared to ₹ 1000/- for LT domestic consumers.

Licensee's response: Not furnished.

**Commission's Decision:** The Commission, after examination of the consumer objections/suggestions, has reduced the demand charges for this category from ₹ 250/kVA/Month of tariff order 2012-13 to ₹ 50/kVA/Month in this tariff order. The consumer covered under this category shall recover only the amounts paid to the Licensees.

262. **Other objections regarding Fixed/Demand charges:** Some of the objectors/organizations have raised the following issues:
- For LT-II Non-Domestic/Commercial, the levy of ₹ 50/kW/month in addition to proposed hike in energy charges is not justifiable.

- For LT - III Industry, the collection of fixed charges at the rate ₹ 50/- and ₹ 100/- per HP in addition to the energy charges is very arbitrary and against the Act.
- Remove fixed charges on Pisci/Prawn culture during off season period when electricity is not consumed.

**Licensee's View:** The demand charges are meant for meeting the costs involved for making the availability of the required power in MW/MVA at the premises of the consumer round the clock. Demand charges includes the fixed cost of network involved in transmitting the power and the fixed cost of the generators which have contract with the licensees to generate that power. Further the total fixed costs from Transmission, SLDC, ULDC, PGCIL, Distribution is projected to add upto ₹ 6,602 Crs.. In addition, the fixed cost component of power purchase comes to ₹ 9,791 Cr. The total revenue from the proposed Demand charges is ₹ 4,680 Crs. which is much less than the total fixed costs incurred on the system.

**Commission's View:** The Commission, in general, prefers a two part tariff i.e. fixed and energy charges for all consumer categories where consumption uncertainty exists on account of consumer specific reasons. Licensees incur significant amount of fixed cost in connecting and arranging the power supply to retail consumers. In case of single part tariff, if the consumption is nil, the Licensees will not be able to recover any revenue from the consumers despite incurring fixed cost. Hence, levy of two part tariff is rational and shall be extended to all consumer categories in course of time. The Commission, has examined all the above consumer objections/suggestions on demand charges proposed by the Licensees and has accommodated the objections/suggestions which are practical and can be met in the overall tariff setting process.

263. For the Reference Tariff Schedule, fixed/demand charges have been arrived at by making changes to certain filing rates while considering the objections/suggestions, revenue requirement and other statutory provisions relating to tariff fixation. The modified fixed/demand charges approved by the Commission for FY 2013-14 are given in Table 42.

**Table 42: Commission Proposed Fixed/Demand Charges for FY2013-14**

Consumer Category	Charge (₹/Month)
LT-II:NON DOMESTIC/COMMERCIAL	
LT II(A):Upto 50 Units/Month	50/kW
LT II(B):Above 50 Units/Month	50/kW
LT II(C):ADVERTISEMENT HOARDINGS	50/kW
LT-III:INDUSTRY	
Industries	50/kW
Seasonal Industries (off season)	50/kW
Pisciculture/Prawn culture	20/kW
Sugarcane crushing	20/kW
Poultry farms	50/kW
Mushroom & Rabbit Farms	50/kW
Floriculture in Green House	50/kW
LT-IV:COTTAGE INDUSTRIES	20/kW
LT-V:AGRICULTURE	
LT-V(C):OTHERS	
Salt farming units with CL upto 15HP	20/HP
Rural Horticulture Nurseries	20/HP
LT-VI:STREET LIGHTING AND PWS	
LT-VI (A):STREET LIGHTING	30/kW
LT-VI (B): PWS Schemes	30/HP
LT-VII:GENERAL	20/kW
LT-VIII: TEMPORARY SUPPLY	20/kW
HT-I:INDUSTRY	
HT-I(A):GENERAL, All Voltages	350/kVA
SEASONAL INDUSTRIES All Voltages	350/kVA
HT-II:OTHERS All Voltages	350/kVA
HT-III:AIRPORTS,BUS STATIONS AND RAILWAY STATIONS, All Voltages	350/kVA
HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES	50/kVA

**REFERENCE TARIFF SHCEDULE**

264. The Commission, in this chapter, has modified the Licensees' proposed energy and fixed/demand charges for FY2013-14 to arrive at above mentioned reference tariff schedule. This reference tariff schedule will be further modified to arrive at full cost recovery tariff schedule in Chapter-XI.



## **CHAPTER-XI**

### **FULL COST RECOVERY TARIFF DETERMINATION**

#### **INTRODUCTION**

265. In this chapter, the Commission, after examination of cost, revenue and cross subsidy for each category of consumers, is determining the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2013-14 by determining the tariff rates/charges to recover the approved revenue requirement (Determined in Chapter-IV) in full, by making necessary enhancements to the rates/charge for certain consumer categories by modifying the rates/charges arrived at in the reference tariff schedule contained in chapter VIII. If this FCRTS is levied on different consumer categories for consumption during FY 2013-14, the Licensees will be able to recover the approved revenue requirement in full.

#### **METHODOLOGY**

266. In Chapter-II, the Commission has arrived at category wise sales for FY 2013-14. In Chapter - IV, power purchase cost has been determined. In Chapter-V, the revenue requirement has been worked out based on power purchase cost arrived in Chapter-IV and other costs as per the Commission analysis. The unit cost of service for different consumer categories has been worked out in Chapter-VI taking into consideration sales quantity from Chapter-II. In Chapter VII, the revenue gap at licensee proposed rates but with Commission approved sales of Chapter-II has been arrived at.
267. In Chapter X, the Commission has modified certain rates/charges proposed by the licensees and arrived at the reference tariff schedule. In Chapter X, the Commission has also examined certain additional tariff proposals made by Licensees and determined certain other charges the Commission deems fit from the view point of better cost recovery, better load monitoring, and better reflection of quantum of service extended by Licensees, etc.
268. In the present chapter, the Commission, after examination of cost, revenue and cross subsidy for each category of consumers, is making necessary enhancements to the rates/charges for certain consumer categories and determining the full cost recovery tariff schedule for FY 2013-14 by modifying the rates/charges contained in the reference tariff schedule of Chapter X.

2. The full cost recovery tariff rates/charges are being determined by the following steps;

- The revenue will be computed at the tariffs indicated in column 4 of Reference Tariff Schedule, Table 33 of Chapter X for each consumer category based on sales (approved at Chapter-II) for FY 2013-14. The non tariff income (as estimated in Chapter VII for FY 2013-14) will be apportioned to different consumer categories.
- The category wise revenue will be compared with category wise cost of supply (based on unit cost of service computed at Chapter-VI and sales (approved at Chapter-II)).
- Based on the cost and revenue from each consumer category, consumer categories will be classified as subsidising, if the revenue is more than the cost (surplus) and as subsidised, if the revenue is less than the cost (deficit).
- The sum of surplus of revenue over cost available from subsidizing categories will be first utilised to meet the deficit of subsidised consumer categories other than LT-I: Domestic and LT-V: Agriculture.
- The remaining surplus, if any, will be 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.
- After allocation of the surplus available, the net deficit (cost for that category less revenue from the category and surplus allocated to that category) will be computed for LT-I: Domestic and LT-V: Agriculture consumer categories 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 will then be 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.

## FULL COST RECOVERY TARIFF/RATES/CHARGES

269. The Commission, following the methodology enumerated above, has drawn up a Full Cost Recovery Tariff Schedule (FCRTS) for each Licensee. If the Licensees levy the tariff as per FCRTS for FY 2013-14, they would recover the approved ARR in full. The details of FCRTS and the revenue at FCRTS are given in Table 43.

**Table 43: Full Cost Recovery Tariff Schedule for FY 2013-14**

Consumer Category	Fixed Charge (₹/Month)	Energy Charge (₹/Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
<b>LT-I:DOMESTIC (Telescopic)</b>					
<b>LT I(A):Upto 50 Units/Month</b>		1.54	1.56	4.19	2.28
<b>LT I(B):Above 50 Units/Month</b>					
First 50		2.69	2.71	5.34	3.43
51-100		3.34	3.36	5.99	4.08
101-150		4.97	4.99	7.62	5.71
151-200		5.72	5.74	8.37	6.46
201-250		6.47	6.49	9.12	7.21
251-300		6.97	6.99	9.62	7.71
301-400		7.47	7.49	10.12	8.21
401-500		7.97	7.99	10.62	8.71
Above 500		8.47	8.49	11.12	9.21
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>					
<b>LT II(A):Upto 50 Units/Month</b>	50/kW	5.40	5.40	5.40	5.40
<b>LT II(B):Above 50 Units/Month</b>					
First 50	50/kW	6.63	6.63	6.63	6.63
51-100	50/kW	7.38	7.38	7.38	7.38
101-300	50/kW	8.13	8.13	8.13	8.13
301-500	50/kW	8.63	8.63	8.63	8.63
Above 500	50/kW	9.13	9.13	9.13	9.13
<b>LT II(C):ADVERTISEMENT HOADINGS</b>	50/kW	11.03	11.03	11.03	11.03
<b>LT-III:INDUSTRY</b>					
Industries	50/HP	6.08	6.08	6.08	6.08
Seasonal Industries (off season)	50/HP	6.75	6.75	6.75	6.75
Pisciculture/Prawn culture	20/HP	4.63	4.63	4.63	4.63
Sugarcane crushing	20/HP	4.63	4.63	4.63	4.63
Poultry farms	50/HP	5.63	5.63	5.63	5.63
Mushroom & Rabbit Farms	50/HP	5.63	5.63	5.63	5.63
Floriculture in Green House	50/HP	5.63	5.63	5.63	5.63
<b>LT-IV:COTTAGE INDUSTRIES</b>					
Cottage Industries	20/HP	3.75	3.75	3.75	3.75
Agro Based Activity	20/HP	3.75	3.75	3.75	3.75
<b>LT-V:AGRICULTURE</b>					
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES</b>					
Corporate Farmers & IT Assesses		4.09	2.71	6.93	5.25
Wet Land Farmers (Holdings >2.5 acre)	525/HP *	2.09	0.71	4.93	3.25
Dry Land Farmers (Connections > 3 nos.)	525/HP *	2.09	0.71	4.93	3.25

Consumer Category	Fixed Charge (₹/Month)	Energy Charge (₹/Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
Wet Land Farmers (Holdings <= 2.5 acre)		1.59	0.21	4.43	2.75
Dry Land Farmers (Connections <= 3 nos.)		1.59	0.21	4.43	2.75
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES</b>					
Corporate Farmers & IT Assesses		5.09	3.71	7.93	6.25
Wet Land Farmers (Holdings >2.5 acre)	1050/HP *	2.59	1.21	5.43	3.75
Dry Land Farmers (Connections > 3 nos.)	1050/HP *	2.59	1.21	5.43	3.75
Wet Land Farmers (Holdings <= 2.5 acre)	525/HP *	2.09	0.71	4.93	3.25
Dry Land Farmers (Connections <= 3 nos.)	525/HP *	2.09	0.71	4.93	3.25
<b>LT-V(C):OTHERS</b>					
Salt farming units with CL upto 15HP	20/HP	3.70	3.70	3.70	3.70
Rural Horticulture Nurseries	20/HP	3.70	3.70	3.70	3.70
<b>LT-VI:STREET LIGHTING AND PWS</b>					
<b>LT-VI(A):STREET LIGHTING</b>					
Panchayats	30/kW	5.37	5.37	5.37	5.37
Municipalities	30/kW	5.87	5.87	5.87	5.87
Municipal Corporations	30/kW	6.37	6.37	6.37	6.37
<b>LT-VI(B):PWS SCHEMES</b>					0.00
Panchayats	30/HP	4.37	4.37	4.37	4.37
Municipalities	30/HP	5.37	5.37	5.37	5.37
Municipal Corporations	30/HP	5.87	5.87	5.87	5.87
<b>LT-VII:GENERAL</b>					
<b>LT-VII(A):GENERAL PURPOSE</b>	20/kW	6.53	6.53	6.53	6.53
<b>LT-VII(B):RELIGIOUS PLACES</b>	20/kW	4.70	4.70	4.70	4.70
<b>LT-VIII: TEMPORARY SUPPLY</b>	20/kW	9.43	9.43	9.43	9.43
<b>HT-I:INDUSTRY</b>					
<b>HT-I(A):GENERAL</b>					
11 kV	350/kVA	5.73	5.73	5.73	5.73
33 kV	350/kVA	5.30	5.30	5.30	5.30
132 kV & Above	350/kVA	4.90	4.90	4.90	4.90
<b>LIGHTS AND FANS</b>					
11 kV		5.73	5.73	5.73	5.73
33 kV		5.30	5.30	5.30	5.30
132 kV & Above		4.90	4.90	4.90	4.90
<b>INDUSTRIAL COLONIES</b>					
11 kV		5.68	5.68	5.68	5.68
33 kV		5.68	5.68	5.68	5.68
132 kV & Above		5.68	5.68	5.68	5.68
<b>SEASONAL INDUSTRIES (OFF SEASON)</b>					
11 kV	350/kVA	6.90	6.90	6.90	6.90
33 kV	350/kVA	6.28	6.28	6.28	6.28
132 kV & Above	350/kVA	6.03	6.03	6.03	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>					
11 kV		6.73	6.73	6.73	6.73
33 kV		6.30	6.30	6.30	6.30
132 kV & Above		5.90	5.90	5.90	5.90
<b>HT-I(B):FERRO ALLOY UNITS</b>					

Consumer Category	Fixed Charge (₹/Mon th)	Energy Charge (₹/Unit)			
		CPDCL	EPDCL	NPDCL	SPDCL
11 kV		5.41	5.41	5.41	5.41
33 kV		4.98	4.98	4.98	4.98
132 kV & Above		4.58	4.58	4.58	4.58
HT-II:OTHERS					
11 kV	350/kVA	6.90	6.90	6.90	6.90
33 kV	350/kVA	6.28	6.28	6.28	6.28
132 kV & Above	350/kVA	6.03	6.03	6.03	6.03
TIME OF DAY TARIFFS(6 PM to 10 PM)					
11 kV		7.90	7.90	7.90	7.90
33 kV		7.28	7.28	7.28	7.28
132 kV & Above		7.03	7.03	7.03	7.03
HT-III:AIRPORTS, BUS STATIONS AND RAILWAY STATIONS					
11 kV	350/kVA	6.58	6.58	6.58	6.58
33 kV	350/kVA	6.01	6.01	6.01	6.01
132 kV & Above	350/kVA	5.72	5.72	5.72	5.72
TIME OF DAY TARIFFS(6 PM to 10 PM)					
11 kV		7.58	7.58	7.58	7.58
33 kV		7.01	7.01	7.01	7.01
132 kV & Above		6.72	6.72	6.72	6.72
HT-IV:IRRIGATION, AGRICULTURE AND CPWS					
Government LIS		5.37	5.37	5.37	5.37
Agriculture		5.37	5.37	5.37	5.37
CPWS		4.39	4.39	4.39	4.39
HT-V:RAILWAY TRACTION		6.36	6.36	6.36	6.36
HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES	50/kVA	5.68	5.68	5.68	5.68
HT-VII:GREEN POWER		10.78	10.78	10.78	10.78
HT-VIII:TEMPORARY	1.5 times of corresponding HT category				
RURAL ELECTRIC CO-OPERATIVES					
Anakapally		0.00	1.32	0.00	0.00
Chipurupally		0.00	0.55	0.00	0.00
Sircilla		0.00	0.00	0.86	0.00
Kuppam		0.00	0.00	0.00	0.34
* Equivalent flat rate tariff per Year					

**Table 44: Revenue and Revenue Gap at Revised Full Cost Tariff for FY 2013-14**

Category		Revenue, ₹ Cr.				
		CPDCL	EPDCL	NPDCL	SPDCL	Total
LT-I	Domestic	2999.67	1264.18	1648.50	2355.15	8267.51
LT-II	Non Domestic	1962.54	752.28	472.93	1101.54	4289.29
LT-III	Industrial	699.06	368.51	167.48	664.52	1899.57
LT-IV	Cottage Inds.	8.02	1.07	3.44	12.05	24.59
LT-V	Agriculture	1347.92	205.98	1801.85	1257.23	4612.98
LT-VI	Public Lighting	518.87	170.80	207.81	230.44	1127.91
LT-VII	General	54.69	30.85	21.71	36.00	143.24
LT-VIII	Temporary	1.23	0.93	0.03	1.68	3.86
HT-I	Industry	8259.75	3139.30	863.64	3317.24	15579.93

Category		Revenue, ₹ Cr.				
		CPDCL	EPDCL	NPDCL	SPDCL	Total
HT-II	Others	1593.79	501.69	90.35	462.53	2648.37
HT-III	Aviation	42.91	0.69	0.00	1.03	44.63
HT-IV	Agriculture	231.50	106.25	208.23	32.38	578.36
HT-V	Railway Traction	104.27	389.70	281.57	410.76	1186.29
HT-VI	Townships	64.82	20.92	76.58	28.37	190.69
HT-VII	Green Power	0.00	0.00	0.00	0.00	0.00
HT-VIII	Temporary	9.33	21.04	0.00	0.00	30.37
Total		17898.36	6974.35	5845.59	9921.20	40639.50
Cost/ARR, Rs. Cr.		17898.36	6974.35	5845.59	9921.20	40639.50
Revenue Gap, Rs. Cr.		0.00	0.00	0.00	0.00	0.00

## CONCLUSION

270. In the absence of any external subsidisation u/s 65 of the Electricity Act, 2003 the Licensees will have to charge the rates contained in the above full cost recovery schedule (FCRTS) to generate the revenue required to meet the approved cost.

## CHAPTER-XII RETAIL SUPPLY TARIFF SCHEDULE

### INTRODUCTION

271. In Chapter-XI, the Commission has worked out the Full Cost Recovery Tariff Schedule rates (FCRTS) for FY 2013-14, which the Licensees will have to charge in the absence of any external subsidization u/s 65 of Electricity Act, 2003 in order to generate the revenue required to meet the approved cost.
272. The Commission with due consideration to the letter given by GoAP indicating its commitment to provide ₹ 5550 cr. subsidy u/s 65 of the Electricity Act 2003 has prepared a “Retail Supply Tariff Schedule” (RSTS) applicable to all four Licensees for FY 2013-14.

### RETAIL SUPPLY TARIFF SCHEDULE (RSTS)

273. In this RSTS, the Commission has included the rates as per the Full Cost Recovery Tariff Schedule for all consumer categories except for LT-I: Domestic and LT-V: Agriculture. For LT-I: Domestic and LT-V: Agriculture, the rates/charges as indicated in the Reference Tariff Schedule have been included.
274. The Retail Supply Tariff Schedule drawn up for FY 2013-14 is given in **Table 45**.

**Table 45: Retail Supply Tariff Schedule(RSTS) for FY 2013-14**

Consumer Category	Fixed Charge	Energy Charge
	(₹/Month)	(₹/Unit)
<b>LT-I:DOMESTIC (Telescopic)</b>		
<b>LT I(A):Upto 50 Units/Month</b>		1.45
<b>LT I(B):Above 50 Units/Month</b>		
First 50		2.60
51-100		3.25
101-150		4.88
151-200		5.63
201-250		6.38
251-300		6.88
301-400		7.38
401-500		7.88
Above 500		8.38
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>		
<b>LT II(A):Upto 50 Units/Month</b>	50/kW	5.40
<b>LT II(B):Above 50 Units/Month</b>		
First 50	50/kW	6.63
51-100	50/kW	7.38
101-300	50/kW	8.13
301-500	50/kW	8.63

Consumer Category	Fixed Charge (₹/Month)	Energy Charge (₹/Unit)
Above 500	50/kW	9.13
<b>LT II(C):ADVERTISEMENT HOARDINGS</b>	50/kW	11.03
<b>LT-III:INDUSTRY</b>		
Industries	50/kW	6.08
Seasonal Industries (off season)	50/kW	6.75
Pisciculture/Prawn culture	20/kW	4.63
Sugarcane crushing	20/kW	4.63
Poultry farms	50/kW	5.63
Mushroom & Rabbit Farms	50/kW	5.63
Floriculture in Green House	50/kW	5.63
<b>LT-IV:COTTAGE INDUSTRIES</b>		
Cottage Industries	20/kW	3.75
Agro Based Activity	20/kW	3.75
<b>LT-V:AGRICULTURE</b>		
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES</b>		
Corporate Farmers & IT Assesses		2.50
Wet Land Farmers (Holdings >2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections > 3 nos.)	525/HP *	0.50
Wet Land Farmers (Holdings <= 2.5 acre)		0.00
Dry Land Farmers (Connections <= 3 nos.)		0.00
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES</b>		
Corporate Farmers & IT Assesses		3.50
Wet Land Farmers (Holdings >2.5 acre)	1050/HP *	1.00
Dry Land Farmers (Connections > 3 nos.)	1050/HP *	1.00
Wet Land Farmers (Holdings <= 2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections <= 3 nos.)	525/HP *	0.50
<b>LT-V(C):OTHERS</b>		
Salt farming units with CL upto 15HP	20/HP	3.70
Rural Horticulture Nurseries	20/HP	3.70
<b>LT-VI:STREET LIGHTING AND PWS</b>		
<b>LT-VI(A):STREET LIGHTING</b>		
Panchayats	30/kW	5.37
Municipalities	30/kW	5.87
Municipal Corporations	30/kW	6.37
<b>LT-VI(B):PWS SCHEMES</b>		
Panchayats	30/HP	4.37
Municipalities	30/HP	5.37
Municipal Corporations	30/HP	5.87
<b>LT-VII:GENERAL</b>		
<b>LT-VII(A):GENERAL PURPOSE</b>	20/kW	6.53
<b>LT-VII(B):RELIGIOUS PLACES</b>	20/kW	4.70
<b>LT-VIII: TEMPORARY SUPPLY</b>	20/kW	9.43
<b>HT-I:INDUSTRY</b>		
<b>HT-I(A):GENERAL</b>		
11 kV	350/kVA	5.73
33 kV	350/kVA	5.30
132 kV & Above	350/kVA	4.90
<b>LIGHTS AND FANS</b>		
11 kV		5.73
33 kV		5.30
132 kV & Above		4.90
<b>INDUSTRIAL COLONIES</b>		
11 kV		5.68
33 kV		5.68



Consumer Category	Fixed Charge (₹/Month)	Energy Charge (₹/Unit)
132 kV & Above		5.68
<b>SEASONAL INDUSTRIES</b>		
11 kV	350/kVA	6.90
33 kV	350/kVA	6.28
132 kV & Above	350/kVA	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		6.73
33 kV		6.30
132 kV & Above		5.90
<b>HT-I(B):FERRO ALLOY UNITS</b>		
11 kV		5.41
33 kV		4.98
132 kV & Above		4.58
<b>HT-II:OTHERS</b>		
11 kV	350/kVA	6.90
33 kV	350/kVA	6.28
132 kV & Above	350/kVA	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		7.90
33 kV		7.28
132 kV & Above		7.03
<b>HT-III:AIRPORTS,BUS STATIONS AND RAILWAY STATIONS</b>		
11 kV	350/kVA	6.58
33 kV	350/kVA	6.01
132 kV & Above	350/kVA	5.72
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		7.58
33 kV		7.01
132 kV & Above		6.72
<b>HT-IV:IRRIGATION, AGRICULTURE AND CPWS</b>		
Government LIS		5.37
Agriculture		5.37
CPWS		4.39
<b>HT-V:RAILWAY TRACTION</b>		6.36
<b>HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES</b>	50/kVA	5.68
<b>HT-VII:GREEN POWER</b>		10.78
<b>HT-VIII:TEMPORARY</b>	1.5 times of corresponding HT category	
<b>RURAL ELECTRIC CO-OPERATIVES</b>		
Anakapally		1.32
Chipurupally		0.55
Sircilla		0.86
Kuppam		0.34
* Equivalent flat rate tariff per Year		

275. Since the rates / charges incorporated in RSTS are less than the rates in “full cost recovery tariff schedule” for LT I (Domestic) and LT V (Agricultural), the implementation of RSTS for FY 2013 -14, will result in revenue gap of ₹ 5481 Cr., to the licensees. The details of revenue at RSTS and Revenue Gap at RSTS are given in Table 46 and Table 47.

**Table 46: Total Revenue at RSTS for FY 2013-14**

Category		Total Revenue (₹ Cr.)				
		CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
LT-I	Domestic	2939.58	1358.54	911.58	1949.34	7159.05
LT-II	Non Domestic	1963.05	752.33	474.91	1102.58	4292.88
LT-III	Industrial	699.24	368.53	168.18	665.15	1901.11
LT-IV	Cottage Inds.	8.02	1.07	3.46	12.07	24.62
LT-V	Agriculture	59.98	9.13	43.95	20.69	133.75
LT-VI	Public Lighting	519.01	170.81	208.68	230.66	1129.15
LT-VII	General	54.70	30.85	21.80	36.04	143.38
LT-VIII	Temporary	1.23	0.93	0.03	1.68	3.87
HT-I	Industry	8261.90	3139.51	867.26	3320.40	15589.06
HT-II	Others	1594.21	501.73	90.73	462.97	2649.63
HT-III	Air Ports, BS and RS	42.92	0.69	0.00	1.03	44.64
HT-IV	Agriculture	231.56	106.25	209.10	32.41	579.33
HT-V	Railway Traction	104.29	389.72	282.74	411.15	1187.91
HT-VI	Townships	64.84	20.92	76.90	28.39	191.05
HT-VII	Green Power	0.00	0.00	0.00	0.00	0.00
HT-VIII	Temporary	9.33	21.04	0.00	0.00	30.37
	RESCOs	0.00	27.52	61.11	10.29	98.93
Total		16553.87	6899.59	3420.42	8284.86	35158.73

**Table 47: Revenue and Revenue Gap at Proposed Retail Supply Tariff Schedule**

Item	Amount (₹ Cr.)				
	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
ARR/Cost	17898.36	6974.35	5845.59	9921.20	40639.50
Revenue	16553.87	6899.59	3420.42	8284.86	35158.73
Revenue Gap	1344.49	74.76	2425.17	1636.34	5480.77

**SUBSIDY REQUIREMENT FOR RSTS**

276. If the RSTS is to be authorized by the Commission, the Licensees would have to be compensated by the Government of Andhra Pradesh under section 65 of the Act to the extent of ₹ 5480.77 Cr. for FY 2013-14 as detailed in Table 48.

**Table 48: Subsidy Required to Maintain RSTS for FY2013-14**

Category	Subsidy Required ₹ Cr.)				
	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
LT-I:DOMESTIC	60.66	39.57	673.91	405.71	1179.85
LT-V:AGRICULTURE	1283.83	35.19	1751.27	1230.63	4300.92
<b>Total</b>	<b>1344.49</b>	<b>74.76</b>	<b>2425.17</b>	<b>1636.34</b>	<b>5480.77</b>

277. The above subsidy amounts have been quantified by the Commission commensurate to the extent of energy sales volumes approved in the order and not to cover any additional power purchases, if any are made in FY 2013-14 by the Licensees in excess of sales volumes approved in this order, at the instance or with the approval of GoAP, or otherwise.

## CHAPTER-XIII SUBSIDY REQUIREMENT

278. The Commission has worked out the licensee-wise utilization of the subsidy amount u/s 65 of Electricity Act, 2003 for FY 2013-14. As per this calculation, the total subsidy requirement works out to ₹ 5480.77 Crs. (Table 49)
279. The Commission vide its letter reference No.APERC/Secy/S-361-RSTO-2013-14/2012-13, dated 28.03.2013 informed the Government of A.P. that the Commission had re-determined the Revenue Requirement for FY 2013-14 at ₹40639.50 Crs. (Table 47) as against the earlier figure of ₹ 37853.63 Crs., by taking into account the following factors:
- Procurement of power through RLNG to the extent of 2,430 MU for four (4) months i.e., April, 2013 to July, 2013.
  - Fixing average price for Short-term purchase at ₹ 6/unit.
280. The Commission also informed the Government that it had prepared a revised Full Cost Recovery Tariff Schedule (Table 43) to enable recovery of the re-determined revenue requirement.
281. The Commission also informed the Government that it had prepared a revised Retail Supply Tariff Schedule as annexed to the letter (Table 45) and informed the Government that the Commission proposes to issue the Tariff Order for FY 2013-14 incorporating the rates as indicated in the Retail Supply Tariff Schedule annexed to the letter (Table 45).
282. As per the Annexure-VI enclosed to the letter (Table 48), the revised subsidy requirement, flowing from the commitment letter of the Government, for different consumer categories in four Licensees' supply areas, works out as given in Table 49.

**Table 49: Subsidy Commitment of GoAP required to maintain Retail Supply Tariff Schedule for FY 2013-14**

Consumer Category	Amount ₹ Crs.				
	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
LT-I: Domestic	60.66	39.57	673.91	405.71	1179.85
LT-V: Agricultural	1283.83	35.19	1751.27	1230.63	4300.92
<b>Total</b>	<b>1344.49</b>	<b>74.76</b>	<b>2425.17</b>	<b>1636.34</b>	<b>5480.77</b>

283. GoAP was informed that if the GoAP wishes to further reduce any of the tariffs of the said Retail Supply Tariff Schedule (Table 45), the consequential additional subsidy would have to be borne by the GoAP.
284. GoAP was informed that communication of GoAP, if any, u/s 65 of the Electricity Act, 2003 may be sent very urgently by 30-03-2013 to enable the Commission to release the Tariff schedule for FY 2013-14 for publication on 31-03-2013, to be effective from 01-04-2013.

**CHAPTER-XIV**  
**RETAIL SUPPLY TARIFF SCHEDULE FOR FY 2013-14**  
**(RETAIL SUPPLY TARIFF RATES AND TERMS AND CONDITIONS)**

285. In response to the letter of the Commission dated 28-03-2013, the Government of Andhra Pradesh, vide reference GoAP Lr.No.823/Pr.II(1)/2013-1, dated 30-03-2013, have communicated their consent for provision of subsidy under section 65 of the Electricity Act 2003 to enable determination of the Retail Tariffs for FY 2013-14 by the Commission as per the rates given in the Retail Supply Tariff Schedule (Table 45) annexed to the letter of the Commission dated 28-03-2013 and also directed, under section 108 of the Act, to maintain Retail Supply tariff in a uniform manner across the State.
286. The details of the subsidy amount, flowing from the commitment letter of the Government for different consumer categories in four Licensee's supply areas, works out as given in Table 50.

**Table 50: Subsidy Commitment of GoAP to maintain Retail Supply Tariff Schedule for FY 2013-14**

Consumer Category	Amount ₹ Crs.				
	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
LT-I: Domestic	60.66	39.57	673.91	405.71	1179.85
LT-V: Agricultural	1283.83	35.19	1751.27	1230.63	4300.92
Total	1344.49	74.76	2425.17	1636.34	5480.77

287. The Commission, in accordance with the decisions enumerated in earlier Chapters, and in accordance with the consent conveyed vide above mentioned GoAP Lr. No. No.823/Pr.II(1)/2013-1, dated 30-03-2013 for provision of subsidy, hereby determines the Retail Supply Tariff rates and terms and conditions applicable with effect from 01-04-2013 to 31-03-2014 in respect of the four distribution licensees in the State of A.P. and the four rural electricity cooperatives in the State, as hereunder:

## RETAIL SUPPLY TARIFF RATES

(Applicable with effect from 01-04-2013 to 31-03-2014 in respect of the four Distribution Licensees in the State of A.P. and the four Rural Electricity Cooperatives in the State)

Consumer Category	Fixed Charge	Energy Charge
	(₹/Month)	(₹/Unit)
<b>LT-I:DOMESTIC (Telescopic) **</b>		
<b>LT I(A):Upto 50 Units/Month</b>		1.45
<b>LT I(B):Above 50 Units/Month</b>		
First 50		2.60
51-100		3.25
101-150		4.88
151-200		5.63
201-250		6.38
251-300		6.88
301-400		7.38
401-500		7.88
Above 500		8.38
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>		
<b>LT II(A):Upto 50 Units/Month</b>	50/kW	5.40
<b>LT II(B):Above 50 Units/Month</b>		
First 50	50/kW	6.63
51-100	50/kW	7.38
101-300	50/kW	8.13
301-500	50/kW	8.63
Above 500	50/kW	9.13
<b>LT II(C):ADVERTISEMENT HOARDINGS</b>	50/kW	11.03
<b>LT-III:INDUSTRY</b>		
Industries	50/kW	6.08
Seasonal Industries (off season)	50/kW	6.75
Pisciculture/Prawn culture	20/kW	4.63
Sugarcane crushing	20/kW	4.63
Poultry farms	50/kW	5.63
Mushroom & Rabbit Farms	50/kW	5.63
Floriculture in Green House	50/kW	5.63
<b>LT-IV:COTTAGE INDUSTRIES</b>		
Cottage Industries	20/kW	3.75
Agro Based Activity	20/kW	3.75
<b>LT-V:AGRICULTURE</b>		
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES **</b>		
Corporate Farmers & IT Assesses		2.50
Wet Land Farmers (Holdings >2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections > 3 nos.)	525/HP *	0.50
Wet Land Farmers (Holdings <= 2.5 acre)		0.00
Dry Land Farmers (Connections <= 3 nos.)		0.00

Consumer Category	Fixed Charge	Energy Charge
	(₹/Month)	(₹/Unit)
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES **</b>		
Corporate Farmers & IT Assesses		3.50
Wet Land Farmers (Holdings >2.5 acre)	1050/HP *	1.00
Dry Land Farmers (Connections > 3 nos.)	1050/HP *	1.00
Wet Land Farmers (Holdings <= 2.5 acre)	525/HP *	0.50
Dry Land Farmers (Connections <= 3 nos.)	525/HP *	0.50
<b>LT-V(C):OTHERS</b>		
Salt farming units with CL upto 15HP	20/HP	3.70
Rural Horticulture Nurseries	20/HP	3.70
<b>LT-VI:STREET LIGHTING AND PWS</b>		
<b>LT-VI(A):STREET LIGHTING</b>		
Panchayats	30/kW	5.37
Municipalities	30/kW	5.87
Municipal Corporations	30/kW	6.37
<b>LT-VI(B):PWS SCHEMES</b>		
Panchayats	30/HP	4.37
Municipalities	30/HP	5.37
Municipal Corporations	30/HP	5.87
<b>LT-VII:GENERAL</b>		
<b>LT-VII(A):GENERAL PURPOSE</b>	20/kW	6.53
<b>LT-VII(B):RELIGIOUS PLACES</b>	20/kW	4.70
<b>LT-VIII: TEMPORARY SUPPLY</b>	20/kW	9.43
<b>HT-I:INDUSTRY</b>		
<b>HT-I(A):GENERAL</b>		
11 kV	350/kVA	5.73
33 kV	350/kVA	5.30
132 kV & Above	350/kVA	4.90
<b>LIGHTS AND FANS</b>		
11 kV		5.73
33 kV		5.30
132 kV & Above		4.90
<b>INDUSTRIAL COLONIES</b>		
11 kV		5.68
33 kV		5.68
132 kV & Above		5.68
<b>SEASONAL INDUSTRIES</b>		
11 kV	350/kVA	6.90
33 kV	350/kVA	6.28
132 kV & Above	350/kVA	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		6.73
33 kV		6.30
132 kV & Above		5.90
<b>HT-I(B):FERRO ALLOY UNITS</b>		
11 kV		5.41



Consumer Category	Fixed Charge	Energy Charge
	(₹/Month)	(₹/Unit)
33 kV		4.98
132 kV & Above		4.58
<b>HT-II:OTHERS</b>		
11 kV	350/kVA	6.90
33 kV	350/kVA	6.28
132 kV & Above	350/kVA	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		7.90
33 kV		7.28
132 kV & Above		7.03
<b>HT-III:AIRPORTS,BUS STATIONS AND RAILWAY STATIONS</b>		
11 kV	350/kVA	6.58
33 kV	350/kVA	6.01
132 kV & Above	350/kVA	5.72
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>		
11 kV		7.58
33 kV		7.01
132 kV & Above		6.72
<b>HT-IV:IRRIGATION, AGRICULTURE AND CPWS</b>		
Government LIS		5.37
Agriculture		5.37
CPWS		4.39
<b>HT-V:RAILWAY TRACTION</b>		6.36
<b>HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES</b>	50/kVA	5.68
<b>HT-VII:GREEN POWER</b>		10.78
<b>HT-VIII:TEMPORARY</b>	1.5 times of corresponding HT category	

<b>RURAL ELECTRIC CO-OPERATIVES</b>		
Anakapally		1.32
Chipurupally		0.55
Sircilla		0.86
Kuppam		0.34
* Equivalent flat rate tariff per Year		

**\*\* The above determined rates for LT-I Domestic, LT-V (A) Agriculture and LT-V (B) Agriculture are contingent on payment of subsidy as agreed by the GoAP., failing which, the rates contained in the full cost recovery tariff schedule will become operative.**

**TERMS AND CONDITIONS**  
(applicable with effect from 01-04-2013 to 31-03-2014 in respect of the four  
distribution licensees in the State of A.P. and the four rural electricity  
cooperatives in the State)

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.

- FSA will be extra as applicable as notified by the Commission from time to time.
- The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.

**PART 'A'**

1

**L.T.TARIFFS**

**System of Supply**

Low Tension A.C. 50 Cycles

Three Phase Supply at 415 Volts

Single Phase supply at 240 Volts

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 upto 75 kW/100 HP will be treated as LT, for LT-III Industrial category).

**1.1 L.T. CATEGORY-I (A) & I (B) -DOMESTIC**

**APPLICABILITY**

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

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

The LT Domestic consumers are divided into two groups, Viz LT-I(A) and LT I(B). The sub category LT I (A) shall be applicable to the consumers having consumption of 50 units and below per month.

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

### **RATES**

Consumers shall be billed electricity charges as shown below:

Consumption(kWh per month)	Fixed Charge	Energy Charge
	(₹/Month)	(₹/Unit)
<b>LT I(A):Upto 50 Units/Month</b>		1.45
<b>LT I(B):Above 50 Units/Month</b>		
First 50		2.60
51-100		3.25
101-150		4.88
151-200		5.63
201-250		6.38
251-300		6.88
301-400		7.38
401-500		7.88
Above 500		8.38

Subject to monthly minimum energy charges of:

Single phase supply:

Contracted load upto 500 W : ₹ 25/month

Contracted load above 500 W : ₹ 50/month

Three phase supply : ₹ 150/month

### **L.T. CATEGORY-II- NON-DOMESTIC / COMMERCIAL**

#### **APPLICABLE FOR SUPPLY OF ENERGY TO:**

- Consumers who undertake Non Domestic activity.
- Consumers who undertake Commercial activity.
- Consumers who do 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 such as shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, bus stations, railway stations, timber depots, photo studios, printing presses etc.

e) Educational Institutions run by individuals, Non-Government Organisations or Private Trusts and their student hostels are also classified under this category.

The L.T. Category-II- Non-domestic / Commercial consumers are divided into two groups, Viz LT-II (A) and LT II(B). The sub category LT II (A) shall be applicable to the consumers having consumption of 50 units and below per month.

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

Consumers shall be billed electricity charges as shown below:

LT-II:NON DOMESTIC/COMMERCIAL	Fixed charge (₹/kW/Month)	Energy Charge (₹/Unit) (kVAh/kWh)
LT II(A):Upto 50 Units/Month	50	5.40
LT II(B):Above 50 Units/Month		
First 50	50	6.63
51-100	50	7.38
101-300	50	8.13
301-500	50	8.63
Above 500	50	9.13

Monthly Minimum energy Charges: ₹ 65 per month for Single Phase Supply

₹ 200 per month for Three Phase Supply

### 1.2.3 L.T. CATEGORY-II(C)- ADVERTISING HOARDINGS

#### APPLICABILITY

Electricity supply availed through separate(independent) connections 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.

Consumption	Fixed charge (₹/kW/Month)	Energy charge (₹/kVAh or kWh)
For all kWh or kVAh units	50	11.03
Monthly minimum energy charges : ₹ 300/month		

### L.T.CATEGORY-III - INDUSTRY

The tariffs are applicable for supply of electricity to Low Tension Industrial consumers 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.

This tariff will also apply to;

- i. Water Works & Sewerage Pumping Stations operated by Government Departments or Co-operative Societies and pumpsets of Railways, pumping of water by industries as subsidiary function and sewerage pumping stations operated by local bodies.
- ii. Workshops, 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 GoAP.
- iv. News paper printing units.
- v. Poultry Farming Units.
- vi. Pisciculture and Prawn culture units.
- vii. Mushroom production units, Rabbit Farms other than those coming under LT Category - IV.
- vii. Floriculture in Green Houses.
- ix. Sugar cane crushing.

### RATES FOR LT-III - INDUSTRY

	Fixed Charges (₹/kW/Month)	Energy Charges ₹/unit (kVAh/kWh)
<b>LT-III:INDUSTRY</b>		
i) Industry (General)	50	6.08
ii) Pisciculture/Prawn culture	20	4.63
iii) Sugarcane crushing	20	4.63
iv) Poultry farms	50	5.63
v) Mushroom & Rabbit Farms	50	5.63
vi) Floriculture in Green House	50	5.63
<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>		

- If 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 three phase supply.

### **RATES FOR SEASONAL INDUSTRIES UNDER LT-III**

Where a consumer avails supply of energy under L.T. Category - 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 his main plant is regularly closed down during certain months of the tariff year, he 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.

#### **LT III OFF SEASON TARIFF**

##### **FIXED CHARGES**

on 30% of contracted load ₹ 50/kW/Month

##### **ENERGY CHARGES**

For all kVAh/kWh of energy consumed : ₹ 6.75

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

#### **L.T. CATEGORY-IV (A): COTTAGE INDUSTRIES**

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, Mochy, Phenoyl 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.

Rates	
For all kWh units	₹ 3.75 per kWh
Fixed Charges	₹20 /- per month per kW of contracted load subject to a minimum of ₹30/- per month
Note: Units which exceed 10 HP connected load shall be billed at tariff specified for LT-III Industrial Category	

## L.T. CATEGORY-IV (B): AGRO BASED ACTIVITIES

### APPLICABILITY

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 rearing, Emu birds farming, Apiculture (honey making), Chaff-cutting, Millets making and Dairy farming activities with connected load upto 10 HP (including incidental lighting load).

Rates	
For all kWh units	₹ 3.75 per kWh
Fixed Charges	₹20 /- per month per kW of contracted load subject to a minimum of ₹30/- per month
Note: Units which exceed 10 HP connected load shall be billed at tariff Specified for LT-III Industrial Category.	

### 1.5.1 L.T.CATEGORY - V(A) - AGRICULTURAL WITH DSM MEASURES

Category	Purpose	Fixed charges	Energy Charge ₹/kWh
With DSM measures	Corporate Farmers & IT Assesses	0.00	2.50
	Wet Land Farmers (Holdings>2.5 acre)	*₹525/HP/Year	0.50
	Dry Land Farmers (Connections>3 nos.)	*₹525/HP/Year	0.50
	Wet Land Farmers (Holdings<=2.5 acre)	0.00	0.00
	Dry Land Farmers (Connections<=3nos.)	0.00	0.00
* Equivalent flat rate tariff			

### L.T.CATEGORY-V(B) AGRICULTURAL WITHOUT DSM MEASURES

Category	Purpose	Fixed charges	Energy Charge ₹/kWh
Without DSM measures	Corporate Farmers & IT Assesses	0	3.50
	Wet Land Farmers (Holdings >2.5 acre)	*₹ 1050/HP/Year	1.00
	Dry Land Farmers (Connections>3 nos.)	*₹ 1050/HP/Year	1.00
	Wet Land Farmers (Holdings<=2.5 acre)	*₹ 525/HP/Year	0.50
	Dry Land Farmers (Connections<=3 nos.)	*₹525/HP/Year	0.50
* Equivalent flat rate tariff			

Note: For LT lift irrigation schemes, if supply is made beyond 7 hrs. per day, such additional consumption shall be billed @ ₹3.50 per unit.

### 1.5.3 LT CATEGORY - V(C) - OTHERS

Description	Fixed charges ₹/Month	Energy Charge ₹/kWh
Salt farming units with Connected Load upto 15 HP \$	20/HP	3.70
Rural Horticulture Nurseries with Connected Load upto 15HP \$	20/HP	3.70
\$ -Units with connected load more than 15 HP shall be billed under LT Category III – Industrial General tariff		

### L.T. CATEGORY-VI STREET LIGHTING AND PWS SCHEMES

#### APPLICABILITY

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.

#### RATES:

#### LT VI(A) STREET LIGHTING:

Category	₹/kWh	Fixed Charges ₹/month
Panchayats	5.37	30/kW
Municipalities	5.87	30/kW
Municipal Corporations	6.37	30/kW
<b>Minimum energy charges</b>		
Panchayats	₹ 2 per point per month	
Municipalities/Corporations	₹ 6 per point per month	

#### LT VI(B) PWS SCHEMES:

Category	Fixed Charge (₹/Month)	Energy Charge (₹/kVAh or kWh)
Panchayats	₹ 30/HP of contracted load subject to a minimum of ₹ 50/-	4.37
Municipalities	₹ 30/HP of contracted load subject to a minimum of ₹ 100/-	5.37
Municipal Corporations	₹ 30/HP of contracted load subject to a minimum of ₹ 100/-	5.87



## **L.T. CATEGORY-VII (A) - GENERAL PURPOSE**

### **APPLICABILITY**

Applicable for supply of energy to places of worship like Churches, Temples, Mosques, Gurudwaras, Crematoriums, 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.

<b>Rates</b>	
For all the kVAh/kWh Consumed	₹ 6.53 per kVAh/kWh
Fixed Charge	₹ 20/kW per Month
Minimum energy charges	₹ 50 per month for single phase supply
	₹ 150 per month for three phase supply
Note: Trivector meters shall be provided for all 10 kW and above 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.	

## **1.7.2 L.T. CATEGORY-VII (B) -RELIGIOUS PLACES**

### **APPLICABILITY**

Applicable for supply of energy to places of worship such as Churches, Temples, Mosques, Gurudwaras and Crematoriums with connected load up to 2 kW. If the connected load is more than 2 kW, the consumers will be billed under LT Category VII(A): General Purpose.

### **RATES**

For all units of energy	₹ 4.70 /kWh
Fixed charges	₹ 20/kW/Month
Minimum energy charges shall not be levied on LT-VII(B): Religious Places	

## **L.T. CATEGORY-VIII: TEMPORARY SUPPLY:**

<b>Rates</b>	
For all the kVAh/kWh	₹ 9.43 per kVAh/kWh
Minimum energy Charges	₹ 125 per kW or part thereof of contracted load for first 30 days or part thereof and ₹ 75 per kW or part thereof of contracted load for very subsequent period of 15 days or part thereof.
Fixed Charges ₹/month :	20/kW
Note: Trivector meters shall be provided for all 10 kW and above 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.	

## **TERMS & CONDITIONS OF LT SUPPLY**

### **GENERAL CONDITIONS OF L.T. TARIFF**

1. FSA will be extra as applicable as notified by the Commission from time to time.
2. Up to 3 kW of Contracted Load supply will be extended on single phase only.
3. The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.
4. 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.
5. Additional Charges for belated payment of Bills

### **ADDITIONAL CHARGES FOR BELATED PAYMENT OF CHARGES**

- a) The C.C. bills shall be paid by the consumers within the due date mentioned in the bill, i.e. 15 days from date of the bill.
- b) In case of LT- I(A), LT-I(B), LT-II(A) with Contracted Load upto 1 kW and LT-IV, 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)	₹ 10/month
LT-I(B), LT II (A) with Contracted Load upto 1 kW & LT-IV	₹ 25/month

- c) In case of LT - II(A) (having contracted load more than 1 kW), 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/₹100/day calculated from the due date mentioned on the bill, up to the date of payment or ₹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.
- d) If the C.C. bills amount is not paid within 15 days from the due date the power supply is liable for disconnection.
- e) For re-connection of power supply after disconnection, the consumer has to pay reconnection fees. The re- connection charges shall not be collected without actual disconnection.

### 3 CATEGORY-WISE SPECIFIC CONDITIONS OF L.T.TARIFF

#### LT. CATEGORY - I (DOMESTIC)

- a). If electricity supplied in domestic premises is required to be used for non-domestic or commercial purposes, a separate connection should be taken for such loads under L.T. Category - II, failing which the entire supply shall be charged under L.T.Category -II tariff, apart from liability for penal charges as per the terms and conditions of the supply.
- b). 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 L.T.Category- LT I(B), if the plinth area occupied by the domestic consumers is 50% or more of the total plinth area.
  - ii. At L.T.Category-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 will be charged at L.T.Category -I(A) or LT I(B) (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 L.T.Category-I(A) or I(B) , it will be charged at L.T. Category-II(A) or II(B) Non-Domestic/Commercial as per applicable.
- c). 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:

- a) Orders are applicable to Police Quarters and other State/Central Government residential complexes specifically sanctioned by the Licensee.
- b) 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.

- c) The consumers shall be billed at the appropriate slab rate in tariff based on the average monthly consumption per dwelling unit in the complex.
  - d) Meter reading shall be taken monthly in all such cases.
  - e) Customer charges calculated at corresponding rate applicable slab-wise per month for each dwelling unit shall be billed.
- d). Where an individual consumer seeks to avail 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 category I(B).

## **(2) LT. CATEGORY -II NON-DOMESTIC/ COMMERCIAL**

1. For loads 10 kW and above, a LT tri-vector meter shall be provided and energy charges shall be billed on kVAh.
2. For loads below 10 kW, the billing shall be based on kWh.
3. In respect of the complexes having connected load of more than 56 kW /75 HP released under specific orders of Licensee for Single Point Bulk supply, where such complex is under the control of a specified organisation/agency taking responsibility to pay monthly current consumption bills regularly and abide by the Terms and Conditions of supply as per 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. In case, 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.

### **(3) LT - III INDUSTRY CATEGORY**

1) 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 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.

#### **2) Sugarcane Crushing**

Sugar cane crushing operations will be allowed under existing agricultural connections with the specific permission from concerned DE (Operation).

#### **3) 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 will 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. If 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 Category-I (11 kV supply).
- v. In cases 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.

### **(4) SEASONAL INDUSTRIES**

- i. Consumers, classified as seasonal load consumers, who are desirous of availing the seasonal benefits shall specifically declare their season at the time of entering into agreement that their loads should be classified as seasonal loads.
- ii. The period of season shall not be less than 4(four) continuous months. However, consumer can declare longer seasonal period as per actuals.

- iii. 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.
- iv. 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.
- v. The seasonal period once notified cannot be changed, during one Tariff year.
- vi. The off-season tariff is not available to composite units having seasonal and other categories of loads.
- vii. 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.
- viii. Development charges as applicable to regular LT 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.
- ix. Energy charges shall be billed on kVAh for all 15 kW & above services. For all loads below 15 kW, energy charges shall be billed on kWh.

#### **(6) LT CATEGORY-V: AGRICULTURE**

- i. 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.
- ii. Supply to the L.T. Agricultural services will be suitably regulated as notified by Licensee from time to time.
- iii. The Farmers eligible for free supply under Dry Land as well as Wet Lands have to comply with the following Demand Side Management measures (DSM) as applicable for his pumping system viz., submersible and surface pump sets in which they shall not be eligible for free supply.
- iv. DSM measures include frictionless foot valve, capacitor of adequate rating, HDPE or RPVC piping at suction and/or delivery and ISI marked mono-block or submersible pump-sets.

- v. Farmers in dry land areas shall not be eligible for free supply if they grow Paddy in second crop.
- vi. All new connections shall be given only with DSM measures implemented and with meters.

## **(7) LT-CATEGORY VI: STREET LIGHTING & PWS**

### **LT-VI(A) STREET LIGHTING:**

- i. The cost of fittings shall be borne or paid for by Local bodies. The responsibility for maintenance including renewals and replacements rests with the Local bodies viz., Panchayats, Municipalities, Municipal Corporations.
- ii. Where the cost of fittings is borne by the Licensee, the first supply of filament lamps, fluorescent tubes, mercury vapour 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 as in column (3) below. However, where the cost of fittings is borne by the consumer but maintenance is done by the Licensee, the consumer will have to pay fixed charges as in Column (4) below:

<b>Sl. No</b>	<b>Fittings for</b>	<b>Fixed charges Per Month where the cost of fittings is borne by Licensee (₹)</b>	<b>Fixed charges per month where the cost of fittings is borne by the Local Body but maintenance by Licensee (₹)</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
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

- iii. The replacement of filament lamps, fluorescent tubes, mercury vapour 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 labour charges at the rate of ₹ 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 'Rural Area'.

- iv. 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 supply.

#### **(8) LT-CATEGORY- VIII: TEMPORARY SUPPLY**

- (1). Requests for temporary supply of energy cannot normally 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 clause V (h) is also to be paid.
- (2). 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.
- (3). (a) Estimated cost of the works as mentioned in Para (2) 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.



(4). (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 3(a), 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 in 3(b) 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 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.

**(5). 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.

**(6). Regular consumers requiring temporary additional supply**

In cases where consumers availing 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.

## 4 OTHER CHARGES IN L.T.

### I. SERVICE CONNECTION CHARGES

The service connection charges shall be collected as per the Regulations issued by the Commission from time to time.

Service connection wires for L.T. Category - V Irrigation and Agricultural purposes shall be laid collecting an amount of ₹ 25/- per HP of contracted load towards service connection charges.

### II. RECONNECTIONS

<b>(a)Low Tension Services.</b>	
LT – I(A)	₹ 25
Overhead LT Services	₹ 75
U.G. Services	₹ 200

### III. TESTING

<b>(a)Installations</b>	<b>LT</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	₹20
<b>(b)Meters</b>	<b>LT</b>
A.C. Single Phase Energy meter	₹ 100
A.C. Three Phase Energy meter	₹ 300
LT Tri Vector meter	₹ 2000

### IV. Service Calls

(a)Charges for attendance of Fuseman for Low Tension Consumers	
i) Replacing of Licensee's cut out fuses	Nil
ii) Replacing of consumer's fuses	₹ 3/-
(b)Charges for attendance of Fuseman/Wireman at the consumer's premises during any function or temporary illumination provided a Fuse man/ Wireman can be spared for such work	₹ 100/- for each day or part thereof.
(c) Charges for infructuous visit of Licensee employees to the consumer's premises	₹ 25/- for each visit when there is no defect in Licensee's equipment

## V. MISCELLANEOUS CHARGES

(a)Application Registration Fees	
(i)For LT Agricultural & Domestic	₹ 25
(ii)For all other LT Categories	₹ 50
(b)Revision of estimates	₹ 10
(c )Fee for re-rating of consumer's installation at the request of the consumer. <i>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.</i>	₹ 20
(d)Resealing of	
(i)L.T. Meter Cut outs in the consumer's Premises	₹ 5
(ii)M.D. Indicator meters and other apparatus in the consumer's premises For all other LT Categories	₹100
<i>The aforesaid charges do not include the additional charges payable by the consumer for breaking the seals</i>	
(e)For changing meter only at the request of the consumer (where it is not necessitated by increase in demand permanently)	₹ 25
(f)For changing or moving a meter board	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
(g)Customer Charges	
Consumer Category	₹ /month
LT-I Domestic (Units/month)	
0 - 50	25
51 - 100	30
101 - 200	35
201 - 300	40
>300	45
LT-II Non- Domestic / Commercial (Units/month)	
0-50	30
51-100	35
>100	40
LT-II(C) Advertising Hoardings	45

LT-III Industry upto 20 HP	50
LT-III Industry 21 – 50 HP	200
LT-III Industry 51 – 100	750
LT-VII - General Purpose	40
LT-VIII-Temporary Supply	40
All other LT categories	30
(h)Urgency charges for temporary supply at short notice	₹ 100
(i) Special rates chargeable for theft/pilferage and malpractice cases	
As per the General Terms and Conditions of Supply(GTCS) approved by the Commission from time to time.	
(j)Supervision/Inspection & checking charges	
For LT I(A) Domestic	₹ 100
For LT I(B) Domestic	₹ 100
LT Agricultural	₹ 100
For all other LT Categories	₹ 100

## **VI. MISCELLANEOUS WORKS IN L.T.**

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.

## **VII. POWER FACTOR APPARATUS AND CAPACITOR SURCHARGE FOR L.T.**

- (1) Every LT consumers not provided with trivector 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.
- (2) 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.

- (3) 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 @ 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.
- (4) In the case of LT consumers (except LT Domestic) not covered by kVAh billing, if during inspection, no capacitor is found, or the capacitors already installed are found to be damaged or having defect or ceased to function, such consumer shall be liable to pay surcharge @ 25% of the monthly bill amount, as per the terms and conditions of supply notified by the Licensee.
- (5) 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 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 + or -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**

### **H.T. TARIFFS**

These tariffs are applicable for supply of Electricity to H.T. 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.

## H.T. CATEGORY - I (INDUSTRY) APPLICABILITY

This tariff is applicable for supply to all H.T. 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.

This tariff will also apply to;

- i. Water Works & Sewerage Pumping Stations operated by 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, flour mills, oil mills, saw mills, Ice candy, Ice manufacturing units with or without sale outlets.
- iii. The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by GoAP.
- iv. News paper printing units.
- v. Poultry Farming.
- vi. Pisciculture and Prawn culture units.

## HT - I (A) INDUSTRY - GENERAL

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/month of Billing Demand	Energy Charges ₹/kVAh *
132 kV and above	350	4.90
33 kV	350	5.30
11 kV	350	5.73
* ₹1.00/kVAh Time of Day Tariff is leviable on energy consumption during the period from 06:00 PM to 10:00 PM, in addition to the normal energy charges at respective voltages.		

## HT-I (B) FERRO ALLOY UNITS

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/month of Billing Demand	Energy Charges ₹/kVAh
132 kV and above	Nil	4.58
33 kV	Nil	4.98
11 kV	Nil	5.41

### 1. Colony Consumption

- 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 ₹ 5.68 per kVAh.
- In case segregation of colony consumption has not been done, 15% of the total energy consumption shall be billed at ₹ 5.68 per kVAh and the balance kVAh shall be charged at the corresponding energy tariff under HT category -I(A).
- Wherever possible colonies of Industry shall be given a separate HT service under HT Category-VI: Townships and Residential Colonies.

#### 5.1.1 Rates for Seasonal Industries coming under HT-I(A)

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 his main plant is regularly closed down during certain months, he shall 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 under H.T. Category-II rates.

DEMAND CHARGES & ENERGY CHARGES FOR OFF SEASON TARIFF		
Voltage of Supply	Demand Charges ₹/kVA /month of Billing Demand #	Energy Charges ₹/kVAh
132 kV and above	350	6.03
33 kV	350	6.28
11 kV	350	6.90
#Based on the Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher		

## H.T. CATEGORY-II: OTHERS

### APPLICABILITY

This tariff is applicable to all H.T. Consumers other than those covered under HT Categories I and III to VII:

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/ month of Billing Demand	Energy Charges ₹/kVAh *
132 kV and above	350	6.03
33 kV	350	6.28
11 kV	350	6.90
* ₹ 1.00/ kVAh Time of Day Tariff is leviable on energy consumption during the period from 06:00 PM to 10:00 PM , in addition to the normal energy charges at respective voltages		

### Note

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, the overall kVAh rate (including customer charges) may be limited to the tariff rates under L.T. Category-VII General purpose, in specific cases as decided by the Licensee.

## H.T. CATEGORY-III:

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

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/ month of Billing Demand	Energy Charges ₹/kVAh *
132 kV and above	350	5.72
33 kV	350	6.01
11 kV	350	6.58

\* ₹1.00/ kVAh Time of Day (ToD) Tariff is leviable on energy consumption during the period from 06:00 PM to 10:00 PM, in addition to the normal energy charges at respective voltages.

### 5.4.1 H.T. CATEGORY-IV (A): LIFT IRRIGATION AND AGRICULTURE

This tariff is applicable to lift irrigation schemes managed by Government of A.P. and for consumers availing H.T. supply for Irrigation and Agricultural purposes.



#### **ENERGY CHARGES:**

For all kVAh consumed during the month - ₹ 5.37/kVAh

#### **H.T.CATEGORY - IV(B) - COMPOSITE PROTECTED WATER SUPPLY SCHEMES**

##### **APPLICABILITY**

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

**Energy Charges : ₹ 4.39/kVAh**

**Minimum Charges : ₹ 300/kVA/Year**

#### **H.T. CATEGORY-V - RAILWAY TRACTION**

##### **APPLICABILITY**

This tariff is applicable to all H.T. Railway Traction Loads.

**DEMAND CHARGES - Nil**

#### **ENERGY CHARGES**

For all kVAh units consumed: ₹ 6.36/kVAh

#### **5.6 HT CATEGORY-VI-TOWNSHIPS AND RESIDENTIAL COLONIES**

##### **APPLICABILITY**

This tariff is applicable exclusively for (i) Townships and Residential colonies of Cooperative group housing societies who own the premises and avail 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 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 Light put together	10% of total connected load
Non-domestic/Commercial General purpose put together	10% of total connected load

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/month of Billing Demand	Energy Charges ₹/kVAh
All voltages	50	5.68

## 5.7 HT CATEGORY -VII - GREEN POWER

### APPLICABILITY

Green Power Tariff is applicable to all consumers who wish to avail of power from non-conventional sources of energy voluntarily, and show their support to an environmental cause.

**Energy Charges : ₹ 10.78 /kVAh**

Notes:

- The Tariff shall be an optional Tariff
- A consumer shall be entitled to Renewable Energy Certificates (RECs) as may be admissible

### HT CATEGORY - TEMPORARY

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/ month of Billing Demand	Energy Charges ₹/kVAh
132 kV and above	1.5 Times of the Tariff of Corresponding HT Consumer Category	
33 kV		
11 kV		

## 5.9 RURAL ELECTRIC CO-OPERATIVE SOCIETIES

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges ₹/kVA/ month of Billing Demand	Energy Charges ₹/kWh
Anakapally	Nil	1.32
Chipurupally	Nil	0.55
Siricilla	Nil	0.86
Kuppam	Nil	0.34

1. Rescos, being a Licensee, shall, as far as possible maintain a power factor of  $\pm 0.95$  at their drawal points.
2. No penal charges shall be made applicable.
3. Customer charge is not applicable.

## 6 H.T. SUPPLY- GENERAL CONDITIONS:

1. FSA will be extra as applicable as notified by the Commission from time to time.
2. The tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act

### 3. Voltage of Supply

The voltage at which supply has to be availed by:

- (i). HT consumers, seeking to avail supply on common feeders shall be:

For Total Contracted Demand with the Licensee and all other sources.

Upto 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 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.

Upto 2500 kVA	11 kV
2501 kVA to 10,000 kVA	33 kV
Above 10000 kVA	132 kV or 220 kV

The relaxations are subject to the fulfillment of following conditions:

- i. The consumer should have an exclusive dedicated feeder from the substation where transformation to required voltage takes place.
- ii. The consumer shall pay full cost of the service line including take off arrangements at substation;
- iii. In case of HT - I, HT - II and HT - III consumer categories, for whom the voltage wise tariff is applicable, the Licensee shall levy the tariff as per the actual supply voltage.

#### 4. Voltage Surcharge

H.T. consumers who are now getting supply at voltage different from the declared voltages and who want to continue taking supply at the same voltage will be charged as per the rates indicated below:

Sl.No	Contracted Demand with Licensee and other sources (in kVA)	Voltage at which Supply should be availed (in kV)	Voltage at which consumer is availing supply (in kV)	Rates % extra over the normal rates	
				Demand Charges	Energy Charges
(A) For HT Consumers availing supply through common feeders					
1.	1501 to 5000	33	11	12%	10%
2.	Above 5000	132 or 220	66 or Below	12%	10%
(B) For HT Consumers availing supply through independent feeders					
1	2501 to10000 kVA	33	11	12%	10%
2	Above 10000 kVA	132 or 220	66 or Below	12%	10%

#### NOTE:

In case of consumers who are having supply arrangements from more than one source, the RMD or CMD only with the Licensee, whichever is higher shall be the basis for levying voltage surcharge.

#### 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 4000 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.

## **6. 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 condition of 80% of the contracted demand shall not be applicable.

## **7. 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 to cover the cost of a part of the fixed charges of the Licensee.

## **8. ADDITIONAL CHARGES FOR MAXIMUM DEMAND IN EXCESS OF THE CONTRACTED DEMAND:**

If in any month the recorded maximum demand (RMD) of the consumer exceeds his contracted demand with Licensee, the consumer will pay the following charges on excess demand and energy.

<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 Category-HT-V (Railway Traction), the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, if RMD exceeds 120% of Contracted Demand.

## **9. 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/₹100/day or ₹ 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 shall not be levied at the same time.

#### **10. CUSTOMER CHARGES**

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

#### **11. 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 + or -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 kVAh shall be blocked.

### **7 H.T. SUPPLY SPECIFIC CONDITIONS**

#### **(1) H.T-I (A)-INDUSTRY - GENERAL**

- i. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher.
- ii. Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand whichever is higher.

#### **(2) H.T-I (B)-FERRO ALLOY UNITS**

Guaranteed energy off-take at 6701 kVAh per kVA per annum on Average Contracted Maximum Demand or Average Actual Demand whichever is higher. The energy falling short of 6701 kVAh per kVA per annum will be billed as deemed consumption.

#### **(3) H.T INDUSTRY: SEASONAL INDUSTRIES**

- i. Consumers, classified as seasonal load consumers, who are desirous of availing the seasonal benefits shall specifically declare their season at the

time of entering into agreement that their loads should be classified as seasonal loads.

- ii. The period of season shall not be less than 4(four) continuous months. However, consumer can declare longer seasonal period as per actual.
- iii. 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.
- iv. 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 concerned Divisional Engineer of the Licensee.
- v. The seasonal period once notified cannot be changed, during one Tariff year.
- vi. The off-season tariff is not available to composite units having seasonal and other categories of loads.
- vii. 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.
- viii. 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.
- ix. 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.

#### **(4) HT CATEGORY-II - OTHERS**

- i. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.
- ii. Energy charges will be billed on the basis of actual Energy consumption or 25 kVAh per kVA of Billing Demand, whichever is higher.

#### **(5) HT-CATEGORY III - AIRPORTS, RAILWAY STATIONS AND BUS STATIONS:**

- i. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher.
- ii. Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand whichever is higher.

#### **(6) HT-IV- LIFT IRRIGATION, AGRICULTURE AND CPWS**

The metering is mandatory for categories IV A&B.

## **(7) HT-CATEGORY V-RAILWAY TRACTION**

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

## **(8) HT CATEGORY -VI - TOWNSHIPS AND RESIDENTIAL COLONIES**

- i. The billing demand shall be the recorded maximum demand during the month.
- ii. Energy Charges will be billed on the basis of actual consumption or 25 kVAh per kVA of Contracted Demand, whichever is higher.
- iii. 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.

## **(9) TEMPORARY SUPPLY AT HT**

1. Requests for temporary supply of energy cannot normally 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 clause V (h) above is also to be paid.

2. 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.

3. (a) Estimated cost of the works as mentioned in Para (2) 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.

(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 3(a), 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 in 3(b) 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.

- a. In the case of consumers requiring temporary supply for the purposes of Cinema, the estimated energy charges for a minimum period of 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.
- b. 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.

5. **For new connections:** Temporary supply at High Tension may be made available by the Licensee to a consumer, on his request subject to the conditions set out herein.

6. Temporary supply shall not ordinarily be given for a period exceeding 6 (six) months. In case of construction projects, temporary supply can be extended for a period of 3 years. The electricity supplied to such consumer shall be charged for, at rates 50% in excess of the rates set out in the H.T. Tariffs applicable subject to, however, that the billing demand for temporary supply shall be the contracted demand or the recorded maximum demand registered during the month whichever is higher.

7. **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 for as in clause (i) above, subject to the following conditions.

- 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.

## 8 OTHER CHARGES FOR H.T.

### I. SERVICE CONNECTION CHARGES

The service connection charges shall be collected as per the Regulations issued by the Commission from time to time.

### II. RECONNECTIONS

High Tension Services	Charges
11 kV	₹ 1000
33 kV	₹ 2000
132/220 kV	₹ 3000

### III. TESTING

(a)Installations	Charges
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	₹ 200
(b)HT Meters	₹ 3000
(c)Transformer Oils	
First sample of oil	₹ 100
Additional sample of oil of the same equipment received at the same time	₹ 150

### IV. MISCELLANEOUS CHARGES

(a) Application Registration Fees	₹ 100
(b)For changing meter only at the request of the consumer (where it is not necessitated by increase in demand permanently)	₹ 100
(c)For changing or moving a meter board	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
(d)Customer Charges	
HT consumer categories upto 33 kV	₹ 1125/month
HT consumer categories above 33 kV	₹ 2250/month
(e)Urgency charges for temporary supply at short notice	₹ 100
(f)Special rates chargeable for theft/pilferage and malpractice cases	As per the General Terms and Conditions of Supply (GTCS) approved by the Commission from time to time.
(g)Supervision/Inspection & checking charges	₹ 600

## **V. MISCELLANEOUS WORKS IN H.T.**

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.

288. The abstract of the tariff rates determined above, together with the terms & conditions governing the same is enclosed at Annexure A.
289. The payment of subsidy amounts indicated in the beginning of this chapter must be made by Government to the Licensees in monthly installments, in advance.
290. The above determined rates for LT-I Domestic, LT-V (A) Agriculture and LT-V (B) Agriculture are contingent on payment of subsidy as agreed by the GoAP., failing which, the rates contained in the full cost recovery tariff schedule will become operative.
291. The rates indicated in the Retail Supply Tariff Schedule for FY 2013-14, together with the terms and conditions prescribed thereunder shall be applicable in the areas of operation of 4 (four) Distribution Companies viz., Eastern Power Distribution Company of A.P. Limited (APEPDCL), Central Power Distribution Company of A.P. Limited (APCPDCL), Northern Power Distribution Company of A.P. Limited (APNPDCL) and Southern Power Distribution Company of A.P. Limited (APSPDCL)) and 4 (four) Rural Electric Co-operative Societies viz., Anakapally, Cheepurupally, Siricilla and Kuppam for FY2013-14 w.e.f 01-04-2013 to 31-03-2014.

This Order is signed on 30<sup>th</sup> day of March, 2013.

**Sd/-**  
**R.ASHOKA CHARI**  
**MEMBER**

**Sd/-**  
**C.R.SEKHAR REDDY**  
**MEMBER**

**Sd/-**  
**A.RAGHOTHAM RAO**  
**CHAIRMAN**

**ANNEXURE - A**  
**RETAIL SUPPLY TARIFF SCHEDULE FOR FY 2013-14**  
**(RETAIL SUPPLY TARIFF RATES AND TERMS AND CONDITIONS)**  
**(Approved in para 287)**  
Retail Supply Tariff Schedule for FY 2013-14

Consumer Category	Energy Unit	Fixed Charge	Energy Charge
		(₹/Month)	(₹/Unit)
<b>LT-I:DOMESTIC (Telescopic) **</b>			
LT I(A):Upto 50 Units/Month	kWh		1.45
LT I(B):Above 50 Units/Month			
First 50	kWh		2.60
51-100	kWh		3.25
101-150	kWh		4.88
151-200	kWh		5.63
201-250	kWh		6.38
251-300	kWh		6.88
301-400	kWh		7.38
401-500	kWh		7.88
Above 500	kWh		8.38
<b>LT-II:NON DOMESTIC/COMMERCIAL</b>			
LT II(A):Upto 50 Units/Month	kWh/kVAh	50/kW	5.40
LT II(B):Above 50 Units/Month			
First 50	kWh/kVAh	50/kW	6.63
51-100	kWh/kVAh	50/kW	7.38
101-300	kWh/kVAh	50/kW	8.13
301-500	kWh/kVAh	50/kW	8.63
Above 500	kWh/kVAh	50/kW	9.13
LT II(C):ADVERTISEMENT HOARDINGS	kWh/kVAh	50/kW	11.03
<b>LT-III:INDUSTRY</b>			
Industries	kWh/kVAh	50/kW	6.08
Seasonal Industries (off season)	kWh/kVAh	50/kW	6.75
Pisciculture/Prawn culture	kWh/kVAh	20/kW	4.63
Sugarcane crushing	kWh	20/kW	4.63
Poultry farms	kWh/kVAh	50/kW	5.63
Mushroom & Rabbit Farms	kWh/kVAh	50/kW	5.63
Floriculture in Green House	kWh/kVAh	50/kW	5.63
<b>LT-IV:COTTAGE INDUSTRIES</b>			
Cottage Industries upto 10 HP	kWh	20/kW	3.75
Agro Based Activity upto 10 HP	kWh	20/kW	3.75
<b>LT-V:AGRICULTURE</b>			
<b>LT-V(A):AGRICULTURE WITH DSM MEASURES **</b>			
Corporate Farmers & IT Assesses	kWh		2.50
Wet Land Farmers (Holdings >2.5 acre)	kWh	525/HP *	0.50
Dry Land Farmers (Connections > 3 nos.)	kWh	525/HP *	0.50
Wet Land Farmers (Holdings <= 2.5 acre)	kWh		0.00

Consumer Category	Energy Unit	Fixed Charge	Energy Charge
		(₹/Month)	(₹/Unit)
Dry Land Farmers (Connections <= 3 nos.)	kWh		0.00
<b>LT-V(B):AGRICULTURE WITHOUT DSM MEASURES **</b>			
Corporate Farmers & IT Assesses	kWh		3.50
Wet Land Farmers (Holdings >2.5 acre)	kWh	1050/HP *	1.00
Dry Land Farmers (Connections > 3 nos.)	kWh	1050/HP *	1.00
Wet Land Farmers (Holdings <= 2.5 acre)	kWh	525/HP *	0.50
Dry Land Farmers (Connections <= 3 nos.)	kWh	525/HP *	0.50
<b>LT-V(C):OTHERS</b>			
Salt farming units upto 15HP	kWh	20/HP	3.70
Rural Horticulture Nurseries upto 15HP	kWh	20/HP	3.70
<b>LT-VI:STREET LIGHTING AND PWS</b>			
<b>LT-VI(A):STREET LIGHTING</b>			
Panchayats	kWh	30/kW	5.37
Municipalities	kWh	30/kW	5.87
Municipal Corporations	kWh	30/kW	6.37
<b>LT-VI(B):PWS SCHEMES</b>			
Panchayats	kWh/kVAh	30/HP	4.37
Municipalities	kWh/kVAh	30/HP	5.37
Municipal Corporations	kWh/kVAh	30/HP	5.87
<b>LT-VII:GENERAL</b>			
<b>LT-VII(A):GENERAL PURPOSE</b>	kWh/kVAh	20/kW	6.53
<b>LT-VII(B):RELIGIOUS PLACES</b>	kWh	20/kW	4.70
<b>LT-VIII: TEMPORARY SUPPLY</b>	kWh/kVAh	20/kW	9.43
<b>HT-I:INDUSTRY</b>			
<b>HT-I(A):GENERAL</b>			
11 kV	kVAh	350/kVA	5.73
33 kV	kVAh	350/kVA	5.30
132 kV & Above	kVAh	350/kVA	4.90
<b>LIGHTS AND FANS</b>			
11 kV	kVAh		5.73
33 kV	kVAh		5.30
132 kV & Above	kVAh		4.90
<b>INDUSTRIAL COLONIES</b>			
11 kV	kVAh		5.68
33 kV	kVAh		5.68
132 kV & Above	kVAh		5.68
<b>SEASONAL INDUSTRIES</b>			
11 kV	kVAh	350/kVA	6.90
33 kV	kVAh	350/kVA	6.28
132 kV & Above	kVAh	350/kVA	6.03
<b>TIME OF DAY TARIFFS(6 PM to 10 PM)</b>			
11 kV	kVAh		6.73
33 kV	kVAh		6.30

Consumer Category	Energy Unit	Fixed Charge	Energy Charge
		(₹/Month)	(₹/Unit)
132 kV & Above	kVAh		5.90
HT-I(B):FERRO ALLOY UNITS			
11 kV	kVAh		5.41
33 kV	kVAh		4.98
132 kV & Above	kVAh		4.58
HT-II:OTHERS			
11 kV	kVAh	350/kVA	6.90
33 kV	kVAh	350/kVA	6.28
132 kV & Above	kVAh	350/kVA	6.03
TIME OF DAY TARIFFS(6 PM to 10 PM)			
11 kV	kVAh		7.90
33 kV	kVAh		7.28
132 kV & Above	kVAh		7.03
HT-III:AIRPORTS,BUS STATIONS AND RAILWAY STATIONS			
11 kV	kVAh	350/kVA	6.58
33 kV	kVAh	350/kVA	6.01
132 kV & Above	kVAh	350/kVA	5.72
TIME OF DAY TARIFFS(6 PM to 10 PM)			
11 kV	kVAh		7.58
33 kV	kVAh		7.01
132 kV & Above	kVAh		6.72
HT-IV:IRRIGATION, AGRICULTURE AND CPWS			
Irrigation & Agriculture	kVAh		5.37
CPWS	kVAh		4.39
HT-V:RAILWAY TRACTION	kVAh		6.36
HT-VI:TOWNSHIPS AND RESIDENTIAL COLONIES	kVAh	50/kVA	5.68
HT-VII:GREEN POWER	kVAh		10.78
HT-VIII:TEMPORARY	kVAh	1.5 times of corresponding HT category	
RURAL ELECTRIC CO-OPERATIVES			
Anakapally	kWh		1.32
Chipurupally	kWh		0.55
Sircilla	kWh		0.86
Kuppam	kWh		0.34
* Equivalent flat rate tariff per Year			

*\*\* The above determined rates for LT-I Domestic, LT-V (A) Agriculture and LT-V (B) Agriculture are contingent on payment of subsidy as agreed by the GoAP., failing which, the rates contained in the full cost recovery tariff schedule will become operative.*

## **TERMS AND CONDITIONS**

- FSA will be extra as applicable as notified by the Commission from time to time.
- The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.

### **a) Voltage Surcharge**

H.T. consumers who are now getting supply at voltage different from the declared voltages and who want to continue taking supply at the same voltage will be charged as per the rates indicated below:

S.No	Contracted Demand with Licensee and other sources (in kVA)	Voltage at which Supply should be availed (in kV)	Voltage at which consumer is availing supply (in kV)	Rates % extra over the normal rates	
				Demand	Energy
				Charges	Charges
(A) For HT Consumers availing supply through common feeders					
1	1501 to 5000	33	11	12%	10%
2	Above 5000	132 or 220	66 or Below	12%	10%
(B) For HT Consumers availing supply through independent feeders					
1	2501 to10000	33	11	12%	10%
2	Above 10000	132 or 220	66 or Below	12%	10%

#### **Note:**

In case of consumers who are having supply arrangements from more than one source, the RMD or CMD only with the Licensee, whichever is higher shall be the basis for levying voltage surcharge.

### **b) Additional charges for exceeding Contracted Demand**

If in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his Contracted Demand with Licensee, the consumer will pay the following charges on excess demand and energy.

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 Category-HT-V (Railway Traction), the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, if RMD exceeds 120% of Contracted Demand		

c) Minimum Energy Charges

Category		Rates for the year 2013-14	
LT Categories			
I	Domestic	Contracted load of 500 watts and below	
		Single Phase	₹ 25/Month
		contracted load of above 500 watts	
		Single Phase	₹ 50/Month
		Three Phase	₹ 150/Month
II (A) & (B)	Non-Domestic/ Commercial	Single Phase	₹ 65/Month
		Three Phase	₹ 200/Month
II (C)		Advertisement Hoardings	₹ 300/Month
VI (A)	Street Lighting	Panchayats	₹ 2/Point/Month
		Municipalities and Corpns.	₹ 6/Point/Month
VII (A)	General Purpose	Single Phase	₹ 50/Month
		Three Phase	₹ 150/Month
VIII	Temporary Supply		₹ 125/kW or part thereof of contracted load for first 30 days or part thereof and ₹ 75 per kW or part thereof of contracted load for every subsequent period of 15 days or part thereof
HT Categories			
Billing demand		Billing demand shall be maximum demand recorded during the month or 80% of contracted demand whichever is higher except HT-VI (i.e. Township and Residential Colonies, for this category the billing demand is Actual Demand Recorded)	
Minimum Energy Charges			
I(A)	Industry - General	50 kVAh/kVA of billing demand per month	
I(B)	Ferro Alloy Units	Maximum Demand or Average Actual Demand whichever is higher. The energy falling short of 6701 kVAh per kVA per annum will be billed as deemed consumption	
II	Others	25 kVAh/kVA of billing demand per month	
III	Airports, Bus Stations & Railway Stations	50 kVAh/kVA of billing demand per month	
V	Railway Traction	32 kVAh /kVA of Contracted demand/ month	
VI	Townships/Colonies	Billing demand shall be Actual Recorded demand. 25 Units/kVA of contracted demand/ month	



**d) Customer Charges**

<b>Consumer Category</b>	<b>₹ /month</b>
<b>LT-I(A) &amp; I(B) Domestic</b>	
0 - 50	25
51 - 100	30
101 - 200	35
201 - 300	40
>300	45
<b>LT-II(A) &amp; II(B) Non-Domestic/Commercial</b>	
0-50	30
51-100	35
>100	40
<b>LT-II(C) Advertisement Hoardings</b>	45
<b>LT-III Industry upto 20 HP</b>	50
<b>LT-III Industry 21 - 50 HP</b>	200
<b>LT-III Industry 51 - 100 HP</b>	750
<b>LT-VII General Purpose</b>	40
<b>LT-VIII Temporary Supply</b>	40
<b>All other LT categories</b>	30
<b>HT consumer categories upto 33 kV</b>	1125
<b>HT consumer categories above 33 kV</b>	2250

**e) Delayed Payment Surcharge (DPS)**

**LT Category :**

- a. In case of LT- I(A), LT-I(B), LT-II(A) and LT-IV, 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)	₹ 10/month
LT-I(B), LT II (A) with Contracted Load upto 1 kW, LT-IV	₹ 25/month

- b. In case of LT - II(A) (having contracted load more than 1 kW), 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/₹ 100/day calculated from the due date mentioned on the bill, up to the date of payment or ₹ 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.

**HT Category :**

- c. The Licensees shall charge the Delayed Payment Surcharge (DPS) per month on the bill amount at the rate of 5 paise/₹ 100/day or ₹ 550 whichever is higher. In case of grant of instalments, the Licensee shall levy interest at the rate of 18% per annum on the

outstanding amounts, compounded annually and the two shall not be levied at the same time.

**f) Reconnection Charges**

<b>i) Low Tension Services.</b>	
LT - I(A)	₹ 25
For all other LT services	
Overhead Services	₹ 75
U.G. Services	₹ 200
<b>ii) High Tension Services</b>	
11 kV	₹ 1000
33 kV	₹ 2000
132 kV & Above	₹ 3000

**g) Testing Charges**

<b>i) Installations</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	₹ 20	₹ 200
<b>ii) Meters</b>	<b>LT</b>	<b>HT</b>
A.C. Single Phase Energy meter	₹ 100	
A.C. Three Phase Energy meter	₹ 300	
LT Tri Vector meter	₹ 2000	
11 kV		₹ 3000
33 kV		₹ 3000
132 kV		₹ 3000
220 kV & Above		₹ 3000
<b>iii) Transformer Oils</b>		
First sample of oil	₹ 150/-per sample	
Additional sample of oil of the same equipment received at the same time	₹ 100/-per sample	

**h) Supervision/Inspection & checking charges**

For LT I(A) Domestic	₹ 100
For LT I(B) Domestic	₹ 100
LT Agricultural	₹ 100
For all other LT Categories	₹ 100
For all HT Categories	₹ 600

**i) Low Power Factor Charges**

For all consumer categories where kVAh billing is done, no Low Power Factor Surcharge shall be levied.

**j) Capacitor Surcharge**

LT consumers with kWh based billing (except LT Domestic , LT - IV , LT VI (A) , LT - VII (B)) 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 .

Category	Contracted Load
LT II & LT VII (A)	<10 kW
LT III & LT VI (B)	<20 HP

**k) Fixed Charges - Seasonal Industry**

LT III : ₹ 50/kW/Month on 30% of contracted load.

HT :Demand Charges - 30% of CMD or recorded demand whichever is higher.

## **Annexure-B<sub>1</sub>**

### **Earlier Directives**

#### **1. *Functioning of Consumer Grievances Redressal Forums (CGRFs)***

- a) The Licensees shall take all the required publicity measures like involving the local print and electronic media, extension programmes in schools, distribution of pamphlets and brochures, etc., to increase awareness among all the consumers of electricity, and may also take the help of any voluntary agencies or NGOs.
- b) The Licensees shall arrange all the inputs as required by the CGRFs to enable them to function independently and to enable them to conduct the hearings systematically and regularly in the jurisdiction of respective Licensees.
- c) The Licensees shall submit a quarterly report by 15<sup>th</sup> of the succeeding month, giving the details of the compliance with the orders issued by the CGRFs, duly posting them on the respective websites of the Licensees. The format shall be as under:-

**Details of the compliance with the orders issued by the CGRFs in favour of the consumers:**

Sn	CGRF Order No and date	Name and address of complainant	Issue	Verdict of CGRF	Compliance status	Reasons for delay in compliance, if any

#### **2. *Availability of Documents in Telugu***

The Licensees shall make available all the important documents like agreements, General Terms and Conditions of Supply (GTCS); etc., in Telugu. The copies shall also be posted on their websites.

#### **3. *DTR Location for Residential and Commercial Complexes***

The Licensees are directed to issue notices in all such cases, where the transformers are erected outside the premises, directing the concerned to shift the transformers within 3 months into their respective premises. The Discoms shall not henceforth extend power supply in all those cases where the transformers have been erected outside their premises. A consolidated quarterly compliance report on action taken may be sent to the Commission.

#### **4. *Safety***

The Commission had given directions earlier in the matter. The directives should be complied with. This is a very serious matter and needs to be implemented on high priority. The Licensees are directed not to extend power supply by using 6.3 kV single phase distribution transformers without providing neutral wire from the substation

henceforth. In respect of all existing systems neutral wire shall be provided. Contravention of above direction will attract penal provisions u/s 142 of the Electricity Act, 2003.

**5. *Sales Estimation to LT-V (Agriculture)***

The Licensees are directed to estimate the consumption based on Commission approved new methodology and incorporate the results in detail in next Tariff filings without fail.

**6. *Energy Conservation***

The Licensees are directed to submit a detailed report depicting the circle wise details of the studies made by the committee constituted under the Chairmanship of CMD, EPDCL for conservation of energy, recommendations of the Committee and the energy saved on adoption of these recommendations, by 30.06.2012, duly posting all such details on the respective websites of the Discoms.

**7. *Administration of Subsidy***

The Licensees are directed to submit to the Commission by 15<sup>th</sup> of every month a status report on payment of subsidy amounts agreed to paid by the Government u/s 65 of the Electricity Act, 2003.

**8. *Agriculture consumption estimate***

Under Fresh Directives No.2 of the Tariff Order for FY 2011-12, the Licensees were directed to report the progress on implementation of new methodology to estimate on Agricultural consumption, on their respective websites. But, the progress achieved in this regard is observed to be very poor.

The Discoms have taken up the work of executing the HVDS scheme for 11 kV Agricultural feeders. In this regard, the Licensees are directed to furnish the report on fixing of meters to each of the transformers covered under HVDS scheme, within one month. Also, the Discoms are directed to furnish the mid-year report (i.e., for the period from 01-04-2012 to 30-09-2012) on meter-wise readings noted and transformer-wise, feeder-wise consumptions measured on all the DTRs & Feeders covered under HVDS scheme.

**9. *Malpractices & Theft***

The Licensees are directed to submit a quarterly report furnishing the details of number of cases inspected, number of cases booked, nature of offence such as multiple connections, category change, meter bypassing, supply utilised for under disconnection services, supply extended to other tariff category, direct tapping, etc., amounts assessed and amounts recovered and Post the same on their respective websites.

**Annexure-B<sub>2</sub>**  
**Fresh Directives for FY 2013-14**

- 1. *Adoption of DSM Measures***  
The Discoms are directed to provide the information on energy saving arrived due to installation of capacitors on existing pump-sets within three months to the Commission with a copy of the same on their websites.
- 2. *Unauthorised Agriculture Loads***  
The Discoms are directed to take necessary steps for removal/regularisation of un-authorized agricultural services.
- 3. *Determination of Sales Volumes for LT-V (Agriculture)***  
The Licensees are directed to follow the new methodology approved by the Commission in the next Tariff filing for Retail Supply of Electricity without fail. Each Licensee shall file monthly progress report with the Commission on the implementation of new methodology while keeping a copy on their websites.
- 4. *T&D Losses Adopted by DISCOMs***  
The Discoms are directed to take stringent action to reduce commercial loss, particularly theft of energy. The DISCOMs shall prepare an action plan to curb theft of energy. The DISCOMs shall submit an action taken report on quarterly basis to the Commission.
- 5. *Selling Penna Cements Power in Market***  
The DISCOMs are directed to look into the issue in detail and submit a report to the Commission by 30th June, 2013.
- 6. *Procurement of Power from the Gas based IPPS using RLNG***  
The Commission directs the Discoms to stop procurement of power from the gas based IPPS using RLNG as and when the generation from major hydel stations picks up and/or a cheaper source of power from market sources becomes available.
- 7. *Monitoring the Cost of imported Coal procured by APGENCO and NTPC***  
The Discoms are directed to verify whether APGENCO is procuring imported coal through competitive bidding process, or under any guidelines issued in this regard by Gol, before admitting the Station wise power purchase bills claimed by APGENCO.  
  
Regarding NTPC Stations, DISCOMs have to take-up the pricing issue of imported coal, if any, with CERC.

**8. Dependence on Imported Coal**

DISCOMs are directed to ensure that APGENCO shall follow the recommendations of the CEA, contained in clause 7.1 of the CEA document ***“Report Of The Group For Studying Range Of Blending Of Imported Coal With Domestic Coal”*** released in the month of April’12, which reads as follows:

*‘About 10-15% blending of imported coal by weight (15-25% on heat value basis) can generally be carried out in typical existing Indian power boilers designed for low quality Indian coals -----’.*

Similarly, for new stations designed higher GCV coal, the CEA in its letter No.CEA/TE&TD-TT/2011/F-901-111 dated:19-04-2011 addressed to all State Power Secretaries, Thermal Power generating companies/project developers etc, mentioned as follows:

*“Accordingly, all power generating companies, power project developers and power equipment manufacturers are hereby advised that for the purpose of design of boilers for all future indigenous coal based thermal power plants, a stipulation shall be made that the boilers (including auxiliaries) shall be designed for blend ratio by weight of 30:70 % (or higher) imported/high GCV indigenous coal.....”*

In view of above, the DISCOMs shall ensure the limit of usage of imported coal as above.

Regarding usage of imported coal in CG Stations, the DISCOMs may insist the CG Stations to follow the orders issued by CERC, if any, or may advise the CG Stations to follow the CEA guidelines in this regard.

**9. Quality of Domestic Coal**

The Discoms are directed to “appoint independent coal auditors to ensure that the coal of agreed quality and price as per fuel supply agreement (FSA) is used for generation of power at all coal based Thermal Power Stations. Before making final payment such audit reports should be verified by the concerned officers of the DISCOMs”.

APGENCO is also directed to adopt proper sampling technique both at sending and receiving end for coal supply from each source separately keeping in view the importance of coal audit as directed to DISCOMs.

**10. Transit Losses of Coal**

Licensees are directed to take up the matter with APGENCO for a critical examination of the actual transit loss and coal consumption of required quality and price and submit a report to the Commission within three months of issue of this order.

**11. *Impact of Imported Coal***

Distribution Licensees are directed to take-up the issue of variation in GCV (lower GCV of blended coal than indigenous coal) of CG stations with NTPC and report compliance by 30<sup>th</sup> September, 2013.

Licensees are directed to take up the matter with APGENCO for a critical examination of the variation in GCV and submit a report to the Commission by 30<sup>th</sup> September, 2013.

**12. *Power Purchase Cost Adjustment for Renewable Power Purchase Obligation (RPPO):***

The Licensees are directed to purchase the RECs as stipulated above since provision has been made in this order for such purchase by CPDCL, EPDCL & NPDCL and corresponding credit has already been given to SPDCL.

**13. *Maximum Ceiling on Purchase Price through Short Term Sources***

The Distribution licensees are directed to follow the guidelines issued by the Government of India u/s 63 of the Electricity Act, 2003 or the guidelines of Commission i.e., web based competitive procurement, for all purchases from Short Term Sources.

**14. *Security Deposit***

The Commission directs the licensees that “Regulation No.6 of 2004” has to be followed strictly. If due to any reason, if the billing pattern is changed from bi-monthly to monthly for LT consumers, the licensees can retain security deposit to the extent of two months’ consumption charges only and refund, by adjustment in future bills, any amounts in excess of what has been prescribed in the regulation.

**15. *Financial Performance of Discoms***

Commission directs all licensees to submit a monthly report to the Commission on collection of arrears department wise from different Government departments in the following format.

**Name of Department:**

Month	Opening Balance of Arrears from Government Departments (O/B)	Amount accrued as arrear during the Month	Amount collected during the Month	Closing Balance of Arrears at the end of the Month (C/B)	Reasons for non collection

**16. *Open Access***

All the Discoms are directed to take into account 90% of Scheduled Energy and corresponding Demand, procured by the Consumers through inter-state Open Access (Bi-lateral or through exchange), for the purpose of provisional monthly settlement for the sake of billed energy /demand from the DISCOMS’ side.



**17. *Discom responses to APERC Directives***

Discoms are directed to submit their reports on compliance of directives, to the Commission once in every quarter at the end of 15 days of completion of each quarter and to upload a copy of such compliance reports on to their respective websites.

**18. *Neutral Wire***

Commission directs the Licensees to check up all the earthing points in their Distribution system and take up periodical maintenance wherever necessary.

**19. *Implementation of SOP***

Commission is reiterating its earlier direction that the Discoms to bring awareness among the consumers regarding the SOP, consumer's rights and their responsibilities by making use of print, electronic media, and displaying of sign boards depicting the SOP norms and details of CGRFs at all filed level offices up to Section / Electricity Revenue Office / 33/11kV Substation.

**20. *Availability of Annual Report***

Commission directs the Distribution Licensees shall also upload their Annual Accounts into their respective websites, as a matter of public information / disclosure, from now onwards. In respect of previous years, to the extent of availability of electronic copies of the Annual Accounts, the same be uploaded, by 30<sup>th</sup> June 2013. As requested by the objector the hard copies may be made available to the interested parties on payment of reasonable charges of photo copying the same.

## Annexure-C



### ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

#11-4-660, 4<sup>th</sup> & 5<sup>th</sup> Floors, Singareni Bhavan, Red Hills, Hyderabad 500 004  
 Phone Nos. (040) 23397625/381/399 Fax No. (040) 23397378/489 website [www.aperc.gov.in](http://www.aperc.gov.in)

From  
 Secretary, APERC,  
 # 11-4-660, 4<sup>th</sup> Floor,  
 Singareni Bhavan,  
 Red Hills, Lakdi-ka-pul,  
 Hyderabad - 500 004 A.P.

- To
- 1) The Chairman & Managing Director,  
 APCPDCL, 6-1-50, 5<sup>th</sup> floor,  
 Corporate Office, Mint Compound,  
 Hyderabad 500 004.
  - 2) The Chairman & Managing Director,  
 APEPDCL, P&T Colony,  
 Seethammadhara,  
 Near Gurudwara Junction,  
 Visakhapatnam 530 013.
  - 3) The Chairman & Managing Director,  
 APNPDCL, Vidyut Bhavan,  
 Nakkalagutta, Hanamkonda,  
 Warangal 506 001.
  - 4) The Chairman & Managing Director,  
 APSPDCL, Behind Sreenivasa Kalyana  
 Mandapam, Kesavayanagunta,  
 Tirupati 517 501.

Lr. No.APERC/Secy/EAS/F:S-529(8)/B-1/2012-13/2

Dated 01.01.2013

Sir,

Sub:- APERC - Miscellaneous Petition filed seeking further extension of time for filing ARR and Tariff proposals for FY 2013-14 - Reg.

- Ref:- 1) Your letter along with petition dated 30.11.2012  
 2) Lr.No. Lr. No.APERC/Secy/EAS/F:S-529(8)/B-1/2012-13/2  
 Dated 01.01.2013  
 3) Your letter along with miscellaneous petition dated 31.12.2012

-\*\*\*\*\*-

With reference to the miscellaneous petition filed vide letter under ref (3) cited, I am directed to inform that the Commission has granted further extension of time upto 05-01-2013 for filing annual Aggregate Revenue Requirement (ARR) and retail supply business Tariff Proposals for FY 2013-14. It is further informed that no further extension will be granted in this regard.

Yours faithfully,

*[Signature]*  
 1/1/2013  
 Commission Secretary

Copy to:

The CMD/AP Transco/Vidyut Soudha/Hyderabad 500 82.

The Director (Tariff)/APERC

The Director (Engineering)/APERC *[Signature]* 2/1/13

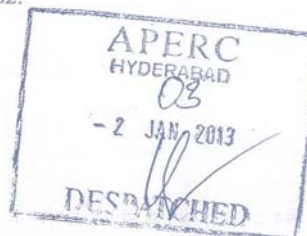
The Director (Law)/APERC

The Director (Administration)/APERC

PS to the Chairman/APERC

PS to the Member (Finance)/APERC *[Signature]*

PS to the Member (Technical)/APERC



# Annexure-D<sub>1</sub>

## BEFORE THE HONOURABLE ANDHRA PRADESH

D.No. 11-4-660, 4<sup>th</sup> & 5<sup>th</sup> Floors, Singareni

**EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED (EPDCL)**

**PUBLIC NOTICE**

1. Notice is hereby given to all that the Distribution Company viz. Eastern Power Distribution Company of A.P.Ltd. (APEDCL) holding Distribution and Retail Supply Licence No.15/2000 has, on 05-01-2013, filed before the A.P.Electricity Regulatory Commission (APERC) the Aggregate Revenue Requirement (ARR) and Tariff application for its Retail supply business for the FY 2013-14. These filings have been taken on record by the Hon'ble Commission in O.P.No. 01 of 2013.

2. Copies of the filings and application referred are available in the Office of the Chief General Manager (Comm. & RAC) of the Distribution Company's headquarter at Visakhapatnam (APEDCL, 2nd Floor, Near Gurudwar, P & T Colony, Seethammadara, Visakhapatnam - 530 013) and all Superintending Engineers of Operation Circles of the Distribution Company at Visakhapatnam, Sriakulam, Vitanagaram, Rajahmundry and Eluru. A copy of these filings can be obtained from the above offices from 00-01-2013 onwards on payment of Rs.200/- (By cash). Also, a summary of ARR and Tariff filings in English or Telugu can be separately obtained on payment of Rs.10/- (By cash).

3. Interested persons may inspect / peruse the said ARR and tariff proposals and take note thereof during office hours at any of the said offices at free of charge. These proposals are also available on [www.apedcl.co.in](http://www.apedcl.co.in) and the same may be accessed at [tariff@apedcl.co.in](mailto:tariff@apedcl.co.in)

4. Objections/suggestions if any, on the ARR filings and Tariff/Charges proposed by the Distribution Company, together with supporting material may be sent to the Chief General Manager (Comm. & RAC) of the Distribution Company's headquarter at Visakhapatnam (APEDCL, 2nd Floor, Near Gurudwar, P & T Colony, Seethammadara, Visakhapatnam - 530 013) in person or through Registered Post as to reach APERC, 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 so mentioned. If the objector also wants to be heard in person it may also be specifically mentioned so. 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 Tariff proposal of (Discom Name to be filled)	Whether copy of Objection & proof of delivery at Licensee's office enclosed/No.	Whether Objector wants to be heard in person

5. The Tariffs and Charges for Retail Supply to consumers proposed by the DISCOM for 2013-14 are indicated in the Schedule below.

6. After perusing the objections/suggestions received in response to this notice the Hon'ble Commission may invite such persons, as it considers appropriate and conduct hearings on dates to be notified by the Commission.

Date : 09 Jan, 2013  
Place : Visakhapatnam

**CHAIRMAN & MANAGING DIRECTOR**  
**EASTERN POWER DISTRIBUTION COMPANY OF A.P.LTD.**

**SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED (SPDCL)**

**PUBLIC NOTICE**

1. Notice is hereby given to all that the Distribution Company viz. Southern Power Distribution Company of A.P.Ltd. (APSPDCL) holding Distribution and Retail Supply Licence No.15/2000 has, on 05-01-2013, filed before the A.P.Electricity Regulatory Commission (APERC) the Aggregate Revenue Requirement (ARR) and Tariff application for its Retail supply business for the FY 2013-14. These filings have been taken on record by the Hon'ble Commission in O.P.No. 02 of 2013.

2. Copies of the filings and application referred are available in the Office of the Chief General Manager (Operation) of the Distribution Company's headquarter at Tirupathi (APSPDCL, D.No. 19-13-65/A, Srikrishnasapuram, Kanyasulkasagunta, Tirupathi - 517 503) and all Superintending Engineers of Operation Circles of the Distribution Company at Vijayawada, Guntur, Ongole, Nellore, Tirupathi and Kadapa. A copy of these filings can be obtained from the above offices from 00-01-2013 onwards on payment of Rs.200/- (By cash). Also, a summary of ARR and Tariff filings in English or Telugu can be separately obtained on payment of Rs.10/- (By cash).

3. Interested persons may inspect / peruse the said ARR and tariff proposals and take note thereof during office hours at any of the said offices at free of charge. These proposals are also available on [www.apspcl.co.in](http://www.apspcl.co.in) and the same may be accessed at [tariff@apspcl.co.in](mailto:tariff@apspcl.co.in)

4. Objections/suggestions if any, on the ARR filings and Tariff/Charges proposed by the Distribution Company, together with supporting material may be sent to the Chief General Manager (Operation) of the Distribution Company's headquarter at Tirupathi (APSPDCL, D.No. 19-13-65/A, Srikrishnasapuram, Kanyasulkasagunta, Tirupathi - 517 503) in person or through Registered Post so as to reach on or before 08-02-2013 by 05.00 pm. A copy of the same must also be filed with the Commission Secretary, APERC, 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 so mentioned. If the objector also wants to be heard in person it may also be specifically mentioned so. 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 Tariff proposal of (Discom Name to be filled)	Whether copy of Objection & proof of delivery at Licensee's office enclosed/No.	Whether Objector wants to be heard in person

5. The Tariffs and Charges for Retail Supply to consumers proposed by the DISCOM for 2013-14 are indicated in the Schedule below.

6. After perusing the objections/suggestions received in response to this notice the Hon'ble Commission may invite such persons, as it considers appropriate and conduct hearings on dates to be notified by the Commission.

Date : 09 Jan, 2013  
Place : Tirupathi

**CHAIRMAN & MANAGING DIRECTOR**  
**SOUTHERN POWER DISTRIBUTION COMPANY OF A.P.LTD.**

### SCHEDULE

Retail supply Tariff / Charges to various consumers (L.T. & H.T.) under Retail supply business for FY 2013-14

Consumer Category	Fixed Charges (Rs/HP/Year)	Demand Charges (Rs/KVA/Year)	Energy Charges (Rs/Unit)	Remarks
<b>LT I DOMESTIC (Unit for levy of energy charges is kWh)</b>				
0-50 Units (Consumption <=50 Units) per month	0.00	0.00	1.45	
>50 Units (Consumption >50 Units and <=100 Units) per month	0.00	0.00	2.60	
0-200 Units (Consumption >100 Units and <=200 Units) per month	0.00	0.00	5.65	
0-300 Units (Consumption >200 Units and <=300 Units) per month	0.00	0.00	6.15	
0-500 Units (Consumption >300 Units and <=500 Units) per month	0.00	0.00	6.50	
At Units (Consumption >500 Units) per month	0.00	0.00	7.00	
<b>LT II NON-DOMESTIC/COMMERCIAL (Unit for levy of energy charges is kWh/kVAHr)</b>				
<b>LT II (A) NON DOMESTIC / COMMERCIAL</b>				
0-50 Units per month		0.00	8.40	
51-100 Units per month	50.00	0.00	7.35	
>100 Units per month		0.00	8.35	
LT II (B) Advertising Hoardings	50.00	0.00	10.40	
<b>LT III INDUSTRY (Unit for levy of energy charges is kWh/kVAHr)</b>				
Industry	100.00	0.00	6.50	
<b>LT IV Specific Purpose (Unit for levy of energy charges is kWh)</b>				
Specific Purpose	20.00	0.00	4.07	
<b>LT V IRRIGATION AND AGRICULTURE (Unit for levy of energy charges is kWh)</b>				
Corporate Farmers & IT Associates	0.00	0.00	2.50	
Wet Land Farmers Holdings				
>2.5 acre		*Rs. 525/HP/Year	0.00	0.50
Dry Land Farmers (Connections <= 3 nos.)		*Rs. 525/HP/Year	0.00	0.50
Wet Land Farmers (Holdings >2.5 acre)		*Rs. 1050 /HP/Year	0.00	1.00
Dry Land Farmers (Connections >= 3 nos.)		*Rs. 1050 /HP/Year	0.00	1.00
Wet Land Farmers (Holdings <= 2.5 acre)		*Rs. 525 /HP/Year	0.00	0.50
Dry Land Farmers (Connections <= 3 nos.)		*Rs. 525 /HP/Year	0.00	0.50
<b>LT VI VILLAGES/LOCAL BODIES, STREET LIGHTING AND PWS SCHEMES</b>				
<b>LT VII GENERAL PURPOSE (Unit for levy of energy charges is kWh/kVAHr)</b>				
General Purpose	20.00	0.00	5.90	
Temporary Supply	20.00	0.00	8.80	
<b>NOTE ON LT CATEGORIES:</b>				
* Equivalent flat rate tariff.				
* Who billing shall be done in respect of all services where LT Trivector meters are provided.				
<b>HT I INDUSTRY</b>				
HT I(A) INDUSTRY GENERAL (Unit for levy of energy charges is kWh)				
132 KV and above	0.00	400.00	5.37	
33KV	0.00	400.00	5.91	
11 KV	0.00	400.00	6.49	
<b>HT II (B) Ferro-Alloys (Unit for levy of energy charges is kWh)</b>				
132 KV and above	0.00	400.00	5.37	
33KV	0.00	400.00	5.91	
11 KV	0.00	400.00	6.49	
<b>Time-of-day Tariff (Applies to HT I(A) &amp; II)</b>				
132 KV and above	0.00	0.00	7.80	
33KV	0.00	0.00	8.44	
11 KV	0.00	0.00	8.80	
<b>HT II OTHERS (Unit for levy of energy charges is kWh)</b>				
132 KV and above	0.00	400.00	6.50	
33KV	0.00	400.00	6.82	
11 KV	0.00	400.00	7.61	
<b>Time-of-day Tariff (Applies to HT I(A) &amp; II)</b>				
132 KV and above	0.00	0.00	8.45	
33KV	0.00	0.00	8.86	
11 KV	0.00	0.00	9.80	
<b>HT III Aviation Activity at airports (Unit for levy of energy charges is kWh)</b>				
132 KV and above	0.00	400.00	6.50	
33KV	0.00	400.00	6.82	
11 KV	0.00	400.00	7.61	
<b>Time-of-day Tariff (Applies to HT I(A) &amp; II)</b>				
132 KV and above	0.00	0.00	8.45	
33KV	0.00	0.00	8.86	
11 KV	0.00	0.00	9.80	
<b>HT IV Govt. Lift Irrigation, Agriculture &amp; Composite Water Supply (Unit for levy of energy charges is kWh)</b>				
132 KV and above	0.00	0.00	5.61	
33KV	0.00	0.00	5.61	
11 KV	0.00	0.00	5.61	
<b>HT V RAILWAY TRACTION (Unit for levy of energy charges is kWh)</b>				
RAILWAY TRACTION	0.00	0.00	6.90	
<b>HT VI Colony Supply (Unit for levy of energy charges is kWh)</b>				

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# ELECTRICITY REGULATORY COMMISSION (APERC)

Bhavan, Red Hills, HYDERABAD - 500 004.



**NORTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED (NPDC)**

## PUBLIC NOTICE

- Notice is hereby given to all that the Distribution Company viz. Northern Power Distribution Company of A.P.Ltd. (APNPDCL) holding Distribution and Retail Supply Licence No.14/2000 has, on 05-01-2013, filed before the A.P. Electricity Regulatory Commission (APERC) the Aggregate Revenue Requirement (ARR) and Tariff application for its Retail supply business for the FY 2013-14. These filings have been taken on record by the Hon'ble Commission in O.P.No. 03 of 2013.
- Copies of the filings and application referred are available in the Office of the Chief General Manager (P & RAC) of the Distribution Company's headquarters at Warangal (APNPDCL, H.NO.2-5-21/2 Vidyalaya Bhawan, Nakkalagutta, Hanamantla - 506 001) and all Superintending Engineers of Operation Circles of the Distribution Company at Warangal, Khammam, Karimnagar, Nizamabad and Adilabad. A copy of these filings can be obtained from the above offices from 09-01-2013 onwards on payment of Rs.200/- (By cash). Also, a summary of ARR and Tariff filings in English or Telugu can be separately obtained on payment of Rs.10/- (By cash).
- Interested persons may inspect / peruse the said ARR and tariff proposals and take note thereof during office hours at any of the said offices at free of charge. These proposals are also available on [www.apnrcdcl.in](http://www.apnrcdcl.in) and the same may be accessed at [www.aperc.gov.in](http://www.aperc.gov.in)
- Objections/suggestions if any, on the ARR filings and Tariff Charges proposed by the Distribution Company, together with supporting material may be sent to the Chief General Manager (P & RAC) of the Distribution Company's headquarters at Warangal (APNPDCL, H.NO.2-5-21/2 Vidyalaya Bhawan, Nakkalagutta, 506 001) in person or through Registered Post so as to reach on or before 08-02-2013 by 05.00 pm. A copy of the same must also be filed with the Commission Secretary, APERC, 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 so mentioned. If the objector also wants to be heard in person it may also be specifically mentioned. The Objections/Suggestion should accompany the following statement as an affidavit.

Name & full address of the Objector	Brief details of Objection (s)/ Suggestion (s)	Objections against Tariff proposal of (Discom Name to be filled)	Whether copy of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)
-------------------------------------	--	--	---	---

- The Tariffs and Charges for Retail Supply to consumers proposed by the DISCOM for 2013-14 are indicated in the Schedule below.
- After perusing the objections/suggestions received in response to this notice the Hon'ble Commission may invite such persons, as it considers appropriate and conduct hearings on dates to be notified by the Commission.

Date : 09-Jan, 2013

Place : Warangal

**CHAIRMAN & MANAGING DIRECTOR**

**NORTHERN POWER DISTRIBUTION COMPANY OF A.P.LTD.**

132 KV and above	0.00	400.00	6.40
33KV	0.00	400.00	6.40
11 KV	0.00	400.00	6.40
HT VII GREEN POWER (OPTIONAL)	0.00	400.00	10.30
HT VII Rural Electric Supply Co-operative Societies (Ressco)	0.00	400.00	10.30
Chitrapalli Ressco	0.00	0.00	2.10
Anakapalle Ressco	0.00	0.00	2.55
Sircilla Ressco	0.00	0.00	1.53
Koppam Ressco	0.00	0.00	0.64
HT IX Temporary (LT for levy of energy charges is 11KV)	0.00	400.00	10.30
132 KV and above	0.00	400.00	10.30
33KV	0.00	400.00	10.30
11 KV	0.00	400.00	10.30

(1) A single category LT-III Industrial is proposed to be made by merging the below mentioned existing sub categories.

LT-III(A): Industrial Normal and Others, Industrial Normal, Industrial Optional, Poultry farms with above 1000 birds, Mushroom & Rabbit farms, Floriculture in Green House

Of Season Industries covered under the existing LT-III(A): Industrial Normal and LT-III(A): Industrial Optional are also proposed to be merged in the new category LT-III Industrial and the Off season tariff charged for these consumers would be on par with the proposed tariff of LT-III Industrial.

The current tariff of the above sub categories is equal and hence it is proposed to merge the above sub categories into one single category

LT-III (A): Pesticulture/Prawn culture with Contracted load < 10 HP and LT-III(A): Supercane crushing are proposed to be moved to a new category LT-IV: Specific Purpose

LT-III (B): Industrial (SSI Units & off Seasonal tariff for seasonal Industries are proposed to be moved to HT-IV (A): Industrial Segregated (11 KV).

(2) Distribution Licensees propose LT-IV: Specific Purpose in place of the existing LT-IV: Cottage Industries and Dhoti Ghats (applicable to community Dhoti Ghats or washermen using motive power for pumping water for washing purposes). The new category is proposed to comprise of consumers availing cross subsidy subsidy like Cottage Industries (up to 5 HP), Dhoti Ghats (up to 5 HP), Salt Farming Units (up to 15 HP), Rural Horticulture nurseries (up to 15 HP), Pesticulture and Prawn culture units (up to 10 HP), Supercane crushing, Agro based activity (up to 5 HP) and Religious places (up to 1 KW).

LT-IV: Specific Purpose is proposed to be made by merging the below mentioned sub categories.

LT-III (A): Industrial Normal and Others, Pesticulture/Prawn culture (up to 10 HP),

Supercane crushing, LT-IV: Cottage Industries, Dhoti Ghats and others, Cottage Industries & Dhoti Ghats (up to 5 HP), Poultry farms up to 1000 birds, Agro based activity (up to 5 HP), LT-IV(C): Others, Salt Farming Units (up to 15 HP), Rural horticulture nurseries (up to 15 HP), LT-IV(B): Religious Places (up to 1 KW)

Pesticulture/Prawn culture Units (> 10 HP), Cottage Industries (> 5 HP), Dhoti Ghat (> 5 HP) and Agro based activities units (> 5 HP), Salt Farming Units (> 15 HP) and Rural Horticulture nurseries Units (> 15 HP) shall be billed at tariff specified for LT-III: Industrial Category

Religious Places (> 1 KW) shall be billed under LT-VII: General Purpose

(D)-Lights and Fans and colony consumption Industries and seasonal Industries are merged in single category HT-IV(A)

Fuel Surcharge Adjustment

Fuel Surcharge Adjustment (FSA) shall be applicable as per the Regulations notified by the Commission from time to time.

For all HT Categories except HT-VI Category the Minimum billing demand is Recorded demand during the month or 80% of contracted demand whichever is higher. For HT-VI Category the Minimum billing demand is Recorded demand

The Customer charges are as given below:

Consumer Category

LT CATEGORIES

Category I Domestic

0-50

0-100

0-200

0-300

0-500

0-500

Category II Non-Open/Customer/Commercial

0-50

51-100

>100

LT-III (B) Advertising hoardings

LT-III Industrial

Units 25 HP

21-50 HP

51-100 HP

200.00

750.00



**CENTRAL POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED (CPDCL)**

## PUBLIC NOTICE

- Notice is hereby given to all that the Distribution Company viz. Central Power Distribution Company of A.P.Ltd. (APCPDCL) holding Distribution and Retail Supply Licence No.13/2000 has, on 05-01-2013, filed before the A.P. Electricity Regulatory Commission (APERC) the Aggregate Revenue Requirement (ARR) and Tariff application for its Retail supply business for the FY 2013-14. These filings have been taken on record by the Hon'ble Commission in O.P.No. 04 of 2013.
- Copies of the filings and application referred are available in the Office of the Chief General Manager (Commercial & RAC) of the Distribution Company's headquarters at Hyderabad (APCPDCL, 2nd Floor, Mint Compound, Hyderabad - 500 063) and all Superintending Engineers of Operation Circles of the Distribution Company at Hyderabad (North), Hyderabad (South), Hyderabad (Central), Rangareddy (North), Rangareddy (South), Rangareddy (East), Mahabubnagar, Medak, Nalgonda, Kurnool and Anantapur. A copy of these filings can be obtained from the above offices from 09-01-2013 onwards on payment of Rs.200/- (By cash). Also, a summary of ARR and Tariff filings in English or Telugu can be separately obtained on payment of Rs.10/- (By cash).
- Interested persons may inspect / peruse the said ARR and tariff proposals and take note thereof during office hours at any of the said offices at free of charge. These proposals are also available on [www.apcpdcl.com](http://www.apcpdcl.com) and the same may be accessed at [www.aperc.gov.in](http://www.aperc.gov.in)
- Objections/suggestions if any, on the ARR filings and Tariff Charges proposed by the Distribution Company, together with supporting material may be sent to the Chief General Manager (Commercial & RAC) of the Distribution Company's headquarters at Hyderabad (APCPDCL, 2nd Floor, Mint Compound, Hyderabad - 500 063) in person or through Registered Post so as to reach on or before 08-02-2013 by 05.00 pm. A copy of the same must also be filed with the Commission Secretary, APERC, 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 so mentioned. If the objector also wants to be heard in person it may also be specifically mentioned. The Objections/Suggestion should accompany the following statement as an affidavit.

Name & full address of the Objector	Brief details of Objection (s)/ Suggestion (s)	Objections against Tariff proposal of (Discom Name to be filled)	Whether copy 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 proposed by the DISCOM for 2013-14 are indicated in the Schedule below.
- After perusing the objections/suggestions received in response to this notice the Hon'ble Commission may invite such persons, as it considers appropriate and conduct hearings on dates to be notified by the Commission.

Date : 09-Jan, 2013

Place : Hyderabad

**CHAIRMAN & MANAGING DIRECTOR**

**CENTRAL POWER DISTRIBUTION COMPANY OF A.P.LTD.**

Category VII - General purpose	40.00
Category VIII - Temporary supply	40.00
All other LT categories	30.00
HT Categories	
(a) 66 KV and below	1125.00
(b) 132/220 KV	2250.00

For the purpose of billing, KVA/KW shall be equal to HP.

DELATED PAYMENT SURCHARGE

The licensee proposes the delayed payment surcharge per month or part thereof as follows:

Category

Delayed payment surcharge

LT - I Domestic (Up to 500 Watts)

Rs. 10/-

LT - I Domestic (>500 Watts)

Rs. 25/-

LT - II (A) Non-domestic/Commercial (<500 Watts), LT - II, LT - V, LT - VI

1.5% of bill amount or Rs. 75/- whichever is higher

LT - II (A) Non-domestic/Commercial (>500 Watts), LT - II (B), LT - VI, LT - VII, LT - VIII

1.5% of bill amount or Rs. 250/- whichever is higher

LT - III Industrial

1.5% of bill amount or Rs. 550/- whichever is higher

HT (All Categories)

1.5% of bill amount or Rs. 550/- whichever is higher

The reconnection fee are as follows

Category

Proposed Fee (Rs./Reconnection)

LT - Overhead

75.00

LT - Underground

200.00

HT - 11 KV

1,000.00

HT - 33 KV

2,000.00

HT - 132 KV

3,000.00

The cross-subsidy surcharge for various categories of open access consumers for FY 2013-14 are proposed (details are available in ARR filings placed in the respective company's website).

The tariffs are exclusive of electricity duty. Electricity duty is payable as per the provisions of AP Electricity duty act, 1959 as amended from time to time.

All other conditions as specified in Retail Supply Tariff Schedule included in Tariff Order for FY 2012-13 will be applicable for the respective categories under LT and HT supply

Save Energy and Help The Nation

## Annexure-D<sub>2</sub>

**ಗೊರವನೆಯ ಆಂಧ್ರವರ್ಧ-ಶ ಎಲೆಕ್ರಿಸಿಟಿ ರೆಗುಲೇ**

డోర్. నెం. 11-4-660, 4వ మరియు 5వ అంతస్తు, సి:

[illegible]



గర్రేణి భవన్, రెడ్ హిల్స్, హైదరాబాద్ - 500 004.



పహిరంగ ప్రకటన

- [illegible]

ಅಧ್ಯಯನ ವಾಹಿನಿ ನಿರ್ದೇಶಕರ ಕಛೇರಿ ಬೆಂಗಳೂರು	ಅಧ್ಯಯನ ಕಛೇರಿ / ವಿಲಾಸಿ ನಿರ್ದೇಶಕರ ಕಛೇರಿ	ಕೆಎಂ (ಡಿಪ್ಲೊಮಾ) ನಿರ್ದೇಶಕರ ಕಛೇರಿ/ಕುಟುಂಬ ಕಲ್ಯಾಣ ನಿರ್ದೇಶಕರ ಕಛೇರಿ	ಶಿಕ್ಷಣ ಕಲ್ಯಾಣ ಮುಖ್ಯ ಕಛೇರಿ ನಿರ್ದೇಶಕರ ಕಛೇರಿ / ಕುಟುಂಬ ಕಲ್ಯಾಣ ನಿರ್ದೇಶಕರ ಕಛೇರಿ	ಅಧ್ಯಯನ ವಾಹಿನಿ ನಿರ್ದೇಶಕರ ಕಛೇರಿ / ಕುಟುಂಬ ಕಲ್ಯಾಣ ನಿರ್ದೇಶಕರ ಕಛೇರಿ
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- [illegible]

పాతర్ని పునర్ నిర్మిల్పాచి కలపెనె అని అంధాధారితక రిమినికె



**ఐహిరంగ ప్రకటన**

- [illegible]

అవసరమైనవి.			
అర్హులైన వారిని పేరు కి పూర్తి రెగిస్ట్రార్.	అర్హులైన వారిని పేరు కి పూర్తి రెగిస్ట్రార్.	పేరు కి (పేరు కి కేసులను) పూర్తి రెగిస్ట్రార్.	పేరు కి (పేరు కి కేసులను) పూర్తి రెగిస్ట్రార్.

- [illegible]

పెండ్లకొండ పరిశోధనా కేంద్రం, ఆంధ్రప్రదేశ్

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విద్యుత్ అమూల్యమైనది.  
దానిని బాధ్యతాయుతంగా వాడండి

**Annexure-E**  
**List of Registered Objectors**

Sl. No.	Name & Address of the Objector	Objection Related to
1	M/s Sri Shiva Spinning Mills Pvt. Ltd., 6-6-1, IDA, Kattedan, Opp. Shivrampally Railway Station, Hyderabad 500 077.	APCPDCL
2	Sri R.H.N.Sarma, Senior Citizen, Member, Lok Satta (S.W.), 6-9 Simhachalam, Visakhapatnam 530 028.	APEPDCL
3	Sri Ch.Sri Rami Reddy, Associate Vice President-Administration, M/s Aurobindo Pharma Ltd., Plot No.2, Maitrivihar, Ameerpet, Hyderabad 500 038.	APCPDCL
4	The Managing Director, CESS Ltd., Sircilla, Karimnagar Dist. 505 301.	APNPDCL
5	Sri Meesala Basava Punnaiah, President, A.P. State Hire Working (Non Trading) Rice Millers Association, Panchalavarapuvuri Street, 9 <sup>th</sup> Ward, Repalle, Guntur Dist. 522 265.	APEPDCL & APSPDCL
6	Sri Meesala Basava Punnaiah, President, Repalle Consumers' Council, 10-13-11/10, Uppudi Road, Repalle, Guntur Dist. 522 265.	APSPDCL
7	Sri K.V.Subba Rao, President, The Puduguralla Pulverisers Association, Guntur Road, Piduguralla, Guntur Dist. 522 413.	APSPDCL
8	Sri Swamy Jaganmayananda, Husnabad (V), Kodangal (M), Mahabubnagar Dist. 509 350.	APCPDCL
9	Sri S.Malla Reddy, Vice President, Akhila Bharatha Kisan Sabha, H.No.1-1-60/2, RTC Crossroads, Musheerabad, Hyderabad 500 020.	All Discoms
10	The General Manager (E&M), Power Houses & Workshops, The Singareni Collieries Co. Ltd., Kothagudem Collieries, Bhadrachalam Road Railway Station, Khammam 507 101.	APNPDCL
11	Sri M.Venugopala Rao, Convener, Centre for Power Studies, H.No.7-1-408 to 413, F 203, Sri Sai Darsan Residency, Balkampet Road, Ameerpet, Hyderabad 500 016.	All Discoms
12	Sri Ch.V.V.S.Bapiraju, Municipal Commissioner, Municipality, Amalapuram, East Godavari Dist. 533 201.	APEPDCL
13	Sri D.Ramaswami Reddy, Retd. SE (APSEB), 21/72 (Upstairs), Trunk Road, Opp. Collector's Officer, Seven Roads, Kadapa 516 001.	APSPDCL
14	Sri B.V.Raghavulu, Secretary, A.P. Committee, Communist Party of India (Marxist), 1-1-60/2, M.B.Bhavan, RTC Crossroads, Hyderabad 500 020.	All Discoms
15	Sri C.V.Mohan Rao, Secretary, Repalle Pattanabhivrudhi Sangham, Repalle, Guntur 522 265.	APSPDCL
16	Sri N.Muni Rathnam Reddy, Ganuga Penta, P.R.Puram (P.O.), Pakal (M), Chittoor Dist. 517 12.	APSPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
17	Sri C.Chinna Swamy, Door No.15/139, New Colony, Pakala (Post), Chittoor Dist. 517 112.	APSPDCL
18	Sri K.Vanadri Naidu, Surineni Palli, Pakala (M), Chittoor Dist. 517 112.	APSPDCL
19	Sri D.Narasimhlu Naidu, Srinivasapuram, Sankam Palli (BPO), Pakala (M), Chittoor Dist. 517 112.	APSPDCL
20	Sri S.Ramarao, State Secretary & V.Subbarao, State President, A.P. Rytu Sangam, 1-1-9/10, Jawahar Nagar, RTC Crossroads, Hyderabad 500 020.	All Discoms
21	Sri B.Chandra Reddy, Vice-President, A.P. Rytu Sangam, 1-1-9/10, Jawahar Nagar, RTC Crossroads, Hyderabad 500 020.	APCPDCL & APNPDCL
22	Sri Ch.Venugopala Rao, Federation of Farmers Associations, Andhra Pradesh, H.No.1-191, Railway Wagon Work Shop Road, Guntupalli, Ibrahimpatnam (M), Krishna Dist. 521 241.	All Discoms
23	Sri G.Maalaydhri, Ex-Corporator, Telugu Desham Party, Flat No.603, Gayatri Towers, Tuda Office Road, Tirupati 517 501.	APSPDCL
24	Er. Ch.Venkateswarlu, Chairman, Rythu Samaikhya, Plot No.302, 33-10-14, Seetharampuram, Vijayawada 520 002.	All Discoms
25	Dr. K.Narayana, Secretary AP State Council, Communist Party of India, 3-6-201, Makhdoom Bhavan, Himayatnagar, Hyderabad 500 029.	All Discoms
26	Sri P.Leela Krishna Sastry, D.No.24-23-5/A, Pasumarthy Nivas, Pasupuletivari Street, Durgpuram, Vijayawada 520 003.	APSPDCL
27	Sri A.Muni Ramaiah, President, Babu Rytu Sangam, Kootumvari Palle (V), P.Kothakota (Post), Puthalapattu (V), Chittoor Dist. 517 124.	APSPDCL
28	Sri K.Dorababu Reddy, President, Babu Rytu Sangam, Damyandla Palle (V), P.Kothakota (Post), Puthalapattu (V), Chittoor Dist. 517 124.	APSPDCL
29	Sri V.Muniratnam, President, Babuji Rytu Sangam, Yellam Palle (V), Thenipalle (Post), Puthalapattu (V), Chittoor Dist. 517 124.	APSPDCL
30	Sri K.Mani Naidu, President, Sri Krishna Rytu Sangam, Krishnapuram (V), P.Kanakambattu (Post), Puthalapattu (V), Chittoor Dist. 517 124.	APSPDCL
31	Sri K.Devarajula Naidu, President, Kodanda Ramaswamy Rytu Sangam, Krishnapuram (V), Akanambattu (V&P), Puthalapattu (V), Chittoor dist. 517 124.	APSPDCL
32	Sri P.Venkatramulu, President, Babu Rytu Sangam, Venuthana Palle (V&P), Puthalapattu (V), Chittoor dist. 517 124.	APSPDCL



Sl. No.	Name & Address of the Objector	Objection Related to
33	Sri S.Chengalraya Reddy, President, Babuji Rytu Sangam, Cherlopalle (V), P.Kothakota (Post), Puthalapattu (M), Chittoor Dist. 517 124.	APSPDCL
34	Sri V.Venkatesulu Naidu, President, Gandhi Rytu Sangam, Mannara Palle (V), P.Kothakota (Post), Puthalapattu (M), Chittoor Dist. 517 124.	APSPDCL
35	Sri N.Jayachandra Reddy, President, Venkateshwara Rytu Sangam, Nadham Palle (V), Chitiralla (P), Puthalapattu (M), Chittoor Dist. 517 124.	APSPDCL
36	Sri K.BalaKrishnam Naidu, President, Gandhi Rytu Sangam, Chavata Pelle (V), P.Kothakota (Post), Puthalapattu (M), Chittoor Dist. 517 124.	APSPDCL
37	Sri M.Sridhar Reddy, State Secretary, Bharatiya Kisan Sang, Plot No.201, Rajput Residency, H.No.2-1-174/175, Old Ramalayam Road, Nallakunta, Hyderabad 500 044.	All Discoms
38	Sri J.Sree Ranga Rao, State Treasurer, Bharatiya Kisan Sang, H.No.2-2-18-18/7 to 9, Sri Laxmi Solitude, Flat No.503, C-29, Near Ahobila Matam Temple, D.D.Colony, Hyderabad 500 013.	All Discoms
39	Sri K.Sai Reddy, H.No.11-1-1815, Maruthinagar, Nizamabad 503 002.	All Discoms
40	Smt. T.Ratnabai, Member of Parliament (Rajya Sabha), Camp Rampachodavaram, East Godavari Dist. 533 288.	APEPDCL
41	Sri N.V.Nageshwer Rao, Commissioner, Nagar Panchayat, Mummidivaram, East Godavari Dist. 533 216.	APEPDCL
42	Sri Janakiramulu, State Secretary, Revolutionary Socialist Party (RSP), 2-1-477, Prateek Towers, Opp. Post Office. Nallakunta, Main Road, Hyderabad 500 044.	All Discoms
43	Sri J.Ram Reddy, State President, All India Samyukta Kisan Sabha, H.No.3-60, Tangutur (V), Aleru (M), Nalgonda 508 101.	All Discoms
44	Sri V.Das Kumar, Secretary, Revolutionary Socialist Party (RSP), H.No.1-49, Vadla Konda (V), Parvatagiri (M), Warangal 506 310.	All Discoms
45	Sri Ch.Lenin, State President, All India Revolutionary Youth Front (AIRYF), H.No.2-134, Ramavaram (V), Kesava Puram (Post), Vardhannapeta (M), Warangal 506 134.	All Discoms
46	Sri P.Prahalada, State Convener, United Trade Union Congress (UTUC), H.No.4-8/1, Amanabolu (V), Golanconda (Post), Aleru (M), Nalgonda 508 101.	All Discoms
47	Sri J.Ramesh Nayak, State Vice President, All India Progressive Students Union (AIPSU), H.No.2-98/17, Oblapur (V), Zaffargadh (M), Warangal 506 306.	All Discoms
48	Sri T.Harish Rao, MLA, Siddipet Constituency-33, Plot No.12, Vasantha Valley, Kondapur, Hyderabad.	APCPDCL & APNPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
49	Sri G.Prabhakar Rao, Plot No.241/102, Opp. Jaya Residency, Electric Tower Line Road, Jayanagar, Kukatpally, Hyderabad 500 072.	APCPDCL
50	Sri M.Srinivas, President, Greater Hyderabad Residents Forum, Flat 1, Block 12, LIG, Baghlingampally, Hyderabad 500 044.	APCPDCL
51	Sri P.Prasad, State General Secretary, Bharath Karmika Sanghala Samaikhya (IFTU), 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
52	Sri K.Nageswar Rao, State President, Vikalangula Hakkula Vedika, Plot No.46, Lalithanagar, Adikmet, Hyderabad 500 044.	All Discoms
53	Smt. G.Jhansi, General Secretary, Progressive Organization of Women, 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
54	Sri G.Diwakar, General Secretary, All India Kisan Mazdoor Sabha (AIKMS), 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
55	Sri D.V.Krishna, State Secretorial Member, Communist Party of India (Marxist-Leninist) New Democracy, 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
56	Sri M.Kodanda Reddy, Chairman, A.P. Kisan Kheth Mazdoor Congress, Gandhi Bhavan, Nampally, Hyderabad.	All Discoms
57	Sri S.S.Varma, Commissioner, Municipal Corporation, Chittoor.	APSPDCL
58	Sri A.Punna Rao, Convener, Praja Energy Audit Cell, 59-2-1, Ashok nagar, Vijayawada 520 010.	APCPDCL
59	Sri K.C.Chengal Raju, President, The Santoshnagar Welfare Association, Konduru Towers, 12-2-823/A/79, Santoshnagar Colony, Mehidipatnam, Hyderabad 500 028.	APCPDCL
60	Sri G.Venkata Swamy, Secretary, A.P. Oggu Katha Goravainla Tappata Gull Kalakarula Sangam, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
61	Sri O.Srinivas, Joint Secretary, A.P. Sheep and Goat Breedars Society, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
62	Sri P.Jamalaiah, Convener, A.P. Artisans Co-ordination Committee, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
63	Sri L.Bala Krishna, General Secretary, A.P. Matsyakarulu, Matsya Karmika Sangam, Vrittidarula Bhavan, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
64	Sri M.V.Ramana, General Secretary, A.P. Kallu Geetha Karmika Sangam, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
65	Sri V.Saidulu, State General Secretary, A.P. Kshura Vruthidarula Sangham, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
66	Sri K.Ramesh, State General Secretary, A.P. Cheneta Karmika Sangam, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
67	Sri K.Rajendra Reddy, President, Rashtriya Raithu Seva Samithi, P.Kothakota (Po), via Pakala (S.O.), Chittoor Dist. 517 112.	APSPDCL
68	Sri P.Bandhava Rao, Managing Director, The Cheepurupalli Rural Electric Cooperative Society Ltd., No.V.R.300, Cheepurupalli, Vizianagaram Dist.	APEPDCL
69	Sri B.Karunakar Reddy, MLA, H.No.7/84, Padmavathipuram, Tiruchanoor Road, Tirupati, Chittoor dist 517 503.	All Discoms
70	Sri B.N.Murthy, Managing Director, M/s VSF projects Ltd., Plot No.89/A, Aishwarya, Sagar Society, Road No.2, Banjara Hills, Hyderabad 500 034.	All Discoms
71	Sri R.Sada Siva Reddy, President, Jeedimetla Industries Association, P-27/D, Phase-III, IDEA Jeedimetla, Hyderabad 500 055.	All Discoms
72	Sri D.Ravendranath Reddy, GM finance & Accounts, M/s Nelcast Ltd., 34, Industrial Estate, Gudur, 524 101.	All Discoms
73	Sri R.Rajendran, President, A.P. Recycled Paper Mills Association, D.No.25-2-20, Jaya Krishnapuram, Rajahmundry, East Godavari Dist. 533 105.	All Discoms
74	Sri N.Venkata Reddi, Managing Director, M/s Sri Ramadas Paper Boards Pvt. Ltd., 60-8-18, P&T Colony, Rajahmundry, East Godavari Dist. 533 105.	All Discoms
75	Sri EVSSDV Prasad, M/s IKP Knowledge Park, Indra Towers, 3rd Floor, Plot No.1, Krishna Nagar Colony, Beside Gandhian School, Wellington Road, Picket, Secunderabad 500 009.	All Discoms
76	Sri B.Surender Reddy, General Secretary, All India Forward Bloc, Andhra Pradesh, Flat No.504, Krathi's Prasanna, Excelency, Arul Colony, Adithyanagar, Dr. A.S. Rao Nagar, Kapra, Hyderabad 500 062.	All Discoms
77	Sri P.S.N.Murthy, Secretary, Hyderabad City Committee, Communist Party of India (Marxist), 1-7-144, Golconda x roads, Musheerabad, Hyderabad 500 020.	All Discoms
78	Sri A.Bala Rama Murthy, Convener, Konaseema Viniyogadarula Sangamula Samaikhya, Ambajipet, East Godavari Dist. 533 214.	APEPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
79	Sri S.Veeraiah, Centre of Indian Trade Unions, A.P. State Committee, 1-7-139/44, NVB Smaraka Kendram, SRK Nagar, Risalagadda, Zamistanpur, Musheerabad, Hyderabad 500 020.	All Discoms
80	Sri M.J.Betala, CIE, Phase-II, Industries Welfare Association, Plot No.93/1, CIE Expansion Programme, Phase-II, Gandhinagar, Balanagar, Hyderabad 500 037.	All Discoms
81	Sri A.Vijaya Kumar, President, Federation of A.P. Small Industries Associations, Administrative Building, Industrial Estate, Sanathnagar, Hyderabad 500 018.	All Discoms
82	Sri K.Kumara Swamy, H.No.3-6-201, Street No.19, Makhdoom Bhavan, CPI Office, Himayatnagar, Hyderabad 500 029.	All Discoms
83	Sri R.Venkaiah, General Secretary, A.P. Rytu Sangam, 210-Amrutha Estates, Himayatnagar, Hyderabad 500 029.	All Discoms
84	Sri I.Bayanna, General Secretary, AISF State Council, H.No.3-6-201, Street No.19, Makhdoom Bhavan, CPI Office, Himayatnagar, Hyderabad 500 029.	All Discoms
85	Sri Janak Prasad, Official Spokesperson, YSR Congress Party, Plot No.883-884, Road No.45, Jubilee Hills, Hyderabad 500 033.	All Discoms
86	Sri K.Sankar Reddy, 22-9, Lakshminagar Colony, Chittoor Dist.	APSPDCL
87	Sri M.Vijaya Bhaskar, Krishna Dist. General Secretary, Bharatiya Kisan Sang, Thadigadapa, Penamaluru (M), Krishna Dist.	APSPDCL
88	Sri B.Vijaya Pal Yadav, H.No.11-13-484/2/202, Sri Krishna Homes, Yadavnagar, Near Alkapuri, Saroornagar, Hyderabad 500 035.	APCPDCL
89	Dr. Ch.Divakar Babu, Secretary, Consumer's Guidance Society, D.No.58-1-26, Flat No.1, Veerapaneni Plaza, Patamata, Vijayawada 520 010.	All Discoms
90	Sri Y.Siddayya Naidu, President, Zilla Rytu Samaikya, Diguvmagam(V), Tavanam palli (M), Chittoor Dist.	APSPDCL
91	Sri V.V.Prasad, Executive Director, M/s Vimta Labs Ltd., 142, IDA Phase II, Cherlapally, Hyderabad 500 051.	All Discoms
92	Sri Gaurav Agarwal, M/s Deevya Shakti Paper Mills Pvt. Ltd., C/o Leo Laminates Pvt. Ltd., Survey No.252, Gaganpahad, Hyderabad 501 323.	All Discoms
93	Sri Hitesh Kumar Manchanda, Executive Director, M/s Hitesh Chemicals & Drugs Pvt. Ltd., D 7&8, Industrial Estate, Patancheru, Medak Dist. 502 319.	All Discoms
94	Sri N.S.Naidu, General Manager (Admin & Corporate Compliance), M/s Vasant Chemicals Pvt. Ltd., 1-11-251/1B, 4 <sup>th</sup> Floor, Vasant Towers, Behind Shopper's Stop, Begumpet, Hyderabad 500 016.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
95	Sri G.V.Subba Rao, President, Mehidipatnam Welfare Association,, 12-2-39/4/A, Mehidipatnam, Hyderabad 500 028.	APCPDCL
96	Sri J.B.Ramamurty, President, Senior Citizens Association, 12-2-823/B/2, Ramamurty Colony, Mehidipatnam, Hyderabad 500 028.	APCPDCL
97	Sri G.Satyanarayana, Chairman, Confederation of Welfare Associations (Residents), # 12-2-790/18, Ayodhya Nagar Colony, Mehidipatnam, Hyderabad 500 028.	APCPDCL
98	Sri M.V.Sivarama Krishna, M/s Mindspace, Cyberabad, 1 <sup>st</sup> Floor, Titus Towers, Bldg. No.10, Madhapur, Hyderabad 500 081.	APCPDCL
99	Sri C.H.Kameswara Rao, M/s Bhavika Plastek Pvt. Ltd., Plot No.131/B, IDA Mallapur & M/s Sri Sainath Plastek, Plot No.31/A, 31/B & 32 Phase-V, IDA Cherlapally, Rangareddy Dist.	All Discoms
100	Sri M.R.Prasad, Secretary General, A.P. Ferro Alloys Producers Association, Flat No.308, Nirmal Towers, Dwarakapuri Colony, Punjagutta, Hyderabad 500 082.	All Discoms
101	Sri Ravindra Kumar Agarwal, Managing Director, M/s Leo Laminates Pvt. Ltd., Survey No.252, Gaganpahad, Hyderabad 501 323.	All Discoms
102	Sri Sushil Kumar Agarwal, Director, M/s Meenakshi Paper Mills Pvt. Ltd., Survey No.659, Satamrai, Gaganpahad, Hyderabad 501 323.	All Discoms
103	Sri G.N.Murthy, M/s Jeevan Polymers Pvt. Ltd., Plot No.12 & M/s Surya Jyothi Polymers Pvt. Ltd., Plot No.101, CIE, Gandhinagar, Balanagar, Hyderabad 500 038.	All Discoms
104	Sri S.N.Murty, General Manager-Finance, M/s Euroflex Transmissions (India) Pvt. Ltd., Plot No.99, CIE (Extn.), Gandhinagar, Balanagar, Hyderabad 500 037.	All Discoms
105	Sri Gali Muddu Krishnama Naidu, MLA, Deputy Leader TDLP, Telugu Desham Party, NTR Bhavan, Road No.2, Banjarahills, Hyderabad 500 034.	All Discoms
106	Sri M.Narasimhulu, MLA, Deputy Leader TDLP, Telugu Desham Party, NTR Bhavan, Road No.2, Banjarahills, Hyderabad 500 034.	All Discoms
107	Sri R.Prakash Reddy, MLA, Telugu Desham Party, NTR Bhavan, Road No.2, Banjarahills, Hyderabad 500 034.	All Discoms
108	Sri G.Sudhachandra, Managing Partner, M/s G.C.H.Polymers, Plot No.58, ID.No.23-52, Industrial Estate (Expansion), Chittoor 517 001.	All Discoms
109	Smt. G.M.Sridevi, Managing Partner, M/s Sri Venkateswara Plastics, Plot No.59, ID.No.23-52, Industrial Estate (Expansion), Chittoor 517 001.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
110	Sri E.Balaji Reddy, Managing Partner, M/s Team Polymers, Sy. No.473/2, D.No.23-96/1, Industrial Estate, Chittoor 517 001.	All Discoms
111	Sri P.V.Narasimha Raju, M/s Rolex Paper Mills Ltd., 4-96, Chintaparru, Palakol (M), West Godavari Dist. 534 250.	All Discoms
112	Smt. G.Saraswathi, Partner, M/s Sri Lakshmi Polymers, Plot No.47, APIIC, Industrial Estate, Chittoor 517 001.	All Discoms
113	Ms. G.Sravanthi, Proprietor, M/s Sindhu Polymers, Plot No.49, 50, Shed No.8, Industrial Estate, Chittoor 517 001.	All Discoms
114	Smt. G.Saraswathi, Partner, M/s Sindhu Towers, D.No.18-1025, High Road, Chittoor 517 001.	All Discoms
115	Sri M.Balakrishna Reddy, Secretary, M/s Tirumala Tirupati Lodge & Hotel Owners Association, C/o Hotel Bliss, 19-3-45, Near Ramanuja circle, Tirupati 517 501.	APSPDCL
116	Sri M.A.Quadhar, M/s Khair Steel Re-Rolling Mills, S.No.184, Jalpally (V), Saroornagar (M), Rangareddy.	All Discoms
117	Sri Anil Kumar Agarwal, Managing Director, M/s Padmavati Ply Pvt. Ltd., Survey No. 267 & 268, Gaganpahad, Hyderabad.	All Discoms
118	Sri M.Thimma Reddy, Convenor, People's Monitoring Group in Electricity Regulation, 1-9-291/6/1, First Floor, Vidyanagar, Hyderabad 500 044.	All Discoms
119	Sri G.Obulesu, General Secretary, AITUC A.P. Council, 3-5-912, 3 <sup>rd</sup> Floor, S.N.Reddy Bhavan, Himayatnagar, Hyderabad 500 029.	All Discoms
120	Sri P.Ajaya Kumar, Vice President, Centre of Indian Trade Unions, A.P. State Committee, Flat 208, APEX Residency, Anand Nagar Colony, Khairatabad, Hyderabad 500 004.	All Discoms
121	Sri R.V.Rao, Personnel Manager, M/s Balaji Hatcheries, 4-1667/A, Durganagar, Greampet, Chittoor 517 002.	APSPDCL
122	Smt. M.Uma, Managing Partner, M/s Balaji Polypacks, Mapakshi Cross, Vellore Road, Chittoor 517 002.	APSPDCL
123	Sri R.V.Rao, Personnel Manager, M/s V.S.N.Hatcheries Pvt. Ltd., 4-1667/A, Durganagar, Greampet, Chittoor 517 002.	APSPDCL
124	Sri D.V.A.S.Ravi Prasad, Advocate, 12-1-289, Road No.2, Anand Nagar Colony, GSI (SR) Post, Bandlaguda, Near Nagole, Hyderabad 500 068.	APCPDCL
125	Sri D.Raveendranath, General Manager, M/s Duccan Alloy Castings (I) Pvt. Ltd., Plot No.5-B, Phase-1, IDA Patancheru, Medak Dist. 502 319.	All Discoms
126	Sri M.Balakasi, Secretary, Democratic Youth Federation of India (DYFI), 1-8-538/4, Chikkadapally, RTC Crossroads, Hyderabad 500 020.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
127	Sri M.Shobhan, State Vice President, Students Federation of India (SFI), 1-8-538/4, Chikkadapally, RTC Crossroads, Hyderabad 500 020.	All Discoms
128	Sri K.Dhamodharam, Assistant Manager (F&A), M/s Martoparl Alloys Pvt. Ltd., Plot No.17, Phase IV, IDA Patancheru, Medak Dist 502 319.	All Discoms
129	Sri K.Chandrasekhar, State General Secretary, A.P. State Committee, Akhila Bharatha Prajatantra Vidyardi Samaikya (AIFDS), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
130	Sri N.Ravindar, President, Warangal District Committee, Akhila Bharatha Prajatantra Yuvajana Samaikya (AIFDY), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
131	Sri S.Srinivas, General Secretary, Warangal District Committee, Akhila Bharatha Prajatantra Yuvajana Samaikya (AIFDY), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
132	Sri G.Ravi, General Secretary, A.P. State Committee, Akhila Bharatha Prajatantra Yuvajana Samaikya (AIFDY), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
133	Sri V.Sudhakar, President, A.P. State Committee, Akhila Bharatha Prajatantra Yuvajana Samaikya (AIFDY), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
134	Sri J.L.Gautham Prasad, General Secretary, Progressive Democratic Students Union (PDSU), 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
135	Sri M.Hanmesh, State President, Progressive Youth League (PYL), 658, Marxs Bhavan, 7 <sup>th</sup> lane, Vidyanagar, Hyderabad 500 044.	All Discoms
136	Sri Shiv Kumar Tayal, M/s Neelu Industries, Plot No. 113, CIE Gandhinagar, Hyderabad 500 037.	APCPDCL
137	Sri S.A.Akheel, M/s SAS Plastek Engineering (P) Ltd, 23, CIE (Exp. Prog), Gandhinagar, Balanagar, Hyderabad 500 037.	APCPDCL
138	Sri M.J.Betala, Managing Director, M/s Alco Wire Products (P) Ltd, F-43-44, Varalaxmi Market Complex, 60, MG Road, Secunderabad 500 003.	APCPDCL
139	Sri V.Srikanth, M/s UI Forgings & Fittings, Plot No.93/1, CIE Expansion Programme, Phase-II, Gandhinagar, Balanagar, Hyderabad 500 037.	All Discoms
140	Sri Vikram R.Jaisinghani, Chief Executive Officer, M/s GMR Hyderabad International Airport Ltd, 6-3-866/G1, Greenlands, Begumpet, Hyderabad.	APCPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
141	Sri P.Ashaiah, General Secretary, A.P. Rajaka Vrittidarula Sangham, 1-7-130/5/A, Risalagadda, Jamisthanpur, Hyderabad 500 020.	All Discoms
142	Sri V.Manoj Kumar, Director, M/s Jayanti Boards Ltd., Mandapaka, Tanuku, West Godavari Dist. 534 218.	All Discoms
143	Sri K.Raghu, Coordinator, Telangana Electricity Employees Joint Action Committee (TEEJAC), 204, SCK Residency, Opp. Niloufer Hospital, Lakdi-ka-pul, Hyderabad 500 004.	All Discoms
144	Sri J.V.V.Durga Prasad, M/s Sneha Vinyl Products Pvt. Ltd., IDA Renigunta, Chittoor 517 520 & M/s Rayalasema Bio Fuels.	All Discoms
145	Sri M.Venkaiah, Managing Director, M/s Upputuramma Hotels and Resorts Pvt. Ltd., 14-2-118, 199, T.P. Area, Tirupati.	All Discoms
146	Sri P.Parthasarathy, Executive Director, M/s Kalyan Residency, Tirupati.	All Discoms
147	Sri K.G.Ranganathan, Managing Director, M/s KRG Hotels (Pvt.) Ltd., Hotel Bhimas Paradise, 3-37, Renigunta Road, Tirupati 517 501.	All Discoms
148	Smt. N.Jyothi, State General Secretary, NFIW A.P. State Council, 309, Amrutha Estates, Himayatnagar, Hyderabad 500 029.	All Discoms
149	Sri K.Ramakrishna, Ex MLA, President, A.P. Rytu Sangam, 210, Amrutha Estates, Himayatnagar, Hyderabad 500 029.	All Discoms
150	Sri P.S.R.K.Durga Prasad, Secretary, Pashamylaram Notified Gram Panchayat Industrial Area Service Society, APIIC Admn. Building, Phase-I, IDA Pashamylaram, Patancheru (M), Medak 502 307.	All Discoms
151	Sri P.S.R.K.Durga Prasad, M/s Srichaitnya Chlorides Pvt. Ltd. & 3 Other firms, Plot No.31,32,39 & 40, Phase-II, IDA, Pashamylaram, Patancheru, Medak Dist 502 032.	All Discoms
152	Smt. B.Bharathakka, Secretary, Warangal District Committee, Akhila Bharatha Prajatantra Mahila Samaikya (AIFDW), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
153	Sri John Wesly, General Secretary, Kula Vivakhsa Vyathireka Porata Sangam (KVPS), 1-8-538/4, Chikkadapally, RTC Crossroads, Hyderabad 500 020.	All Discoms
154	Smt. K.Sukanaya, State Convener, A.P. State Committee, Akhila Bharatha Prajatantra Mahila Samaikya (AIFDW), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL



Sl. No.	Name & Address of the Objector	Objection Related to
155	Sri K.Nagabooshanam, General Secretary, A.P. State Committee, Rashtra Vyavasaya Karmika Sangam A.P. (AIAWF), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
156	Sri P.Bumaiah, General Secretary, Warangal District Committee, Rashtra Vyavasaya Karmika Sangam A.P. (AIAWF), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
157	Sri T.Kumar, President, A.P. State Committee, Rashtra Vyavasaya Karmika Sangam A.P. (AIAWF), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
158	Sri Md.Ghouse, State Secretary, A.P. State Committee, Marxist Communist Party of India (United) MCPI (U), Flat No.8, 1 <sup>st</sup> Floor, HIG-I, Block 28, Street No.10, Baghlingmapally, Hyderabad 500 044.	APCPDCL
159	Sri Ch.Nageswara Rao, General Secretary, Warangal District Committee, Rashtra Rytu Sangam A.P. (AIKF), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
160	Sri N.Hamsa Reddy, President, Warangal District Committee, Rashtra Rytu Sangam A.P. (AIKF), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
161	Sri S.Veerendra Chary, General Secretary, Aikya Prajanaatya Mandali (UPNM), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
162	Sri G.Prasad, Secretary, Krishna District Committee, Marxist Communist Party of India (United) MCPI (U), MCPI(U) Office, Opp. Police Station, Ibrahimpatnam, Krishna Dist.	APSPDCL
163	Sri M.V.N.R.Patnaiak, Secretary, Visakha District Committee, Marxist Communist Party of India (United) MCPI (U), MCPI(U) Office, Gajuwaka, Visakhapatnam.	APEPDCL
164	Sri Srinivasa Rao, District Convener, Krishna District Committee, Akhila Bharatha Prajatantra Yuvajana Samaikya (AIFDY), MCPI(U) Office, Opp. Police Station, Ibrahimpatnam, Krishna Dist.	APSPDCL
165	Sri K.Venkanna, General Secretary, A.P. State Committee, Aikya Prajanaatya Mandali (UPNM), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
166	Sri M.Venkata Reddy, President, A.P. State Committee, Rashtra Rytu Sangam A.P. (AIKF), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
167	Sri M.Chandar Rao, General Secretary, A.P. State Committee, Rashtra Rytu Sangam A.P. (AIKF), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
168	Sri K.Rajamouli, President, Warangal District Committee, Aikya Prajanaatya Mandali (UPNM), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
169	Sri M.Shetty Ramesh, Assistant Secretary, A.P. State Committee, Aikya Prajanaatya Mandali (UPNM), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
170	Sri M.Ashok, Secretary, Warangal District Committee, Marxist Communist Party of India (United) MCPI (U), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
171	Smt. D.Ramanamma, Member, A.P. State Committee, Akhila Bharatha Prajatantra Mahila Samaikya (AIFDW), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
172	Smt. Maagamma, Warangal District Committee, Akhila Bharatha Prajatantra Mahila Samaikya (AIFDW), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
173	Sri T.Sagar, Kula Vivakhsa Vyathireka Porata Sangam (KVPS), 1-8-538/4, Chikkadapally, RTC Crossroads, Hyderabad 500 020.	All Discoms
174	Sri P.S.S.Naidu, President, Mallapur Industrial Units Welfare Association, 136/D, IDA, Mallapur, Hyderabad 500 076.	APCPDCL
175	Sri B.S.S.V.Narayana, Dy. Manager (F&A), M/s Synergies Castings Ltd., # 3, VSEZ, Duvvada, Visakhapatnam 530 049.	APEPDCL
176	Sri P.Penchala Reddy, Bharatiya Kisan Sang, Penuballi (Post), Buchhiredipalem (M), SPSR Nellore Dist.	APSPDCL
177	Sri K.Harikishore Kumar Reddy, Bharatiya Kisan Sang, Paturu (Post), Kavuru (M), SPSR Nellore Dist.	APSPDCL
178	Sri P.Sreenivasulu Reddy, Bharatiya Kisan Sang, Damaramadugu (Post), Buchhiredipalem (M), SPSR Nellore Dist.	APSPDCL
179	Sri K.Ravindra Rao, M/s Ushakiron Movies Ltd, & 3 Firms, Ramoji Film City, Rangareddy Dist. 501 512.	APCPDCL
180	Sri V.Kota Reddy, Managing Director, M/s Sri Aditya Homes Pvt. Ltd., Aditya House, # 8-2-232/8/A, Road No.3, Banjara Hills, Hyderabad 500 034.	APCPDCL
181	Sri K.Ravindra Rao, M/s Dolphin Hotels Ltd. & other 2 Firms, Ramoji Film City, Rangareddy Dist, 501 512.	APEPDCL
182	Sri K.Govardhan, Working Editor, Prajapanda, 1-9-295/11/4, 658, 7 <sup>th</sup> Lane, Marx Bhavan, Vidyanagar, Hyderabad 500 044.	APCPDCL
183	Sri P.Purnachand, Director, M/s Relmix Pvt. Ltd., # 203, Vijaya Enclave, Plot No.32, Srinagar Colony, Hyderabad 500 073.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
184	Sri P.Purnachand, Joint Managing Director, M/s Rocksand Mineral (P) Ltd., # 203, Vijaya Enclave, Plot No.32, Srinagar Colony, Hyderabad 500 073.	All Discoms
185	Sri Ch.Lal Bahadur Sastri, Managing Director, M/s Jaivijaya Paper & Boards (P) Ltd., Chebrolu (P), Unguturu (M), West Godavari Dist. 534 406.	All Discoms
186	Sri A.S.Perumal, Executive Member, Chittoor Dist. Power Loom Weaving Workers Union, 6-128, New Street, Pedupetai, Nagari, Chittoor.	APSPDCL
187	Sri K.Kumar Reddy, District Secretary, Chittoor District Committee, Communist Party of India (Marxist), M.B. Bhavan, Yasoda nagar, Tirupati, Chittoor 517 501.	All Discoms
188	Sri K.Murali, Secretariat Member, Chittoor District Committee, Communist Party of India (Marxist), M.B. Bhavan, Yasoda nagar, Tirupati, Chittoor 517 501.	All Discoms
189	Sri M.R.Nakeeran, Executive Member, Chittoor Dist. Power Loom Weaving Workers Union, 4/104, DRK Street, C.Patteda, Nagari, Chittoor.	All Discoms
190	Sri M.Madhusudhan Reddy, President, Association for Development of Electronics Complex [43 firms], ADECK Hall, Electronics complex, Kushaiguda, Hyderabad 500 062.	APCPDCL
191	Sri M.K.Gupta, Chief Electrical Distribution Engineer, South Central Railway, Headquarters Office, Electrical Branch, Rail Nilayam, IV Floor, Secunderabad 500 071.	All Discoms
192	Smt. R.Padma, Proprietor, M/s Vinnakota Enterprises, 2-158/8, Suraram, Hyderabad 500 055.	All Discoms
193	Sri V.Ajoy Kumar, Proprietor, M/s Gayathri Granite, 2-158/11, Suraram, Hyderabad 500 055.	All Discoms
194	Sri V.Ajoy Kumar, President, Hyderabad Small Scale Granite Industries Association, Flat No.2, Warlu Mansion, plot No.72, Kalyan Nagar, Hyderabad 500 038.	All Discoms
195	Sri G.R.Venugopal, Secretary, Technocrats Association, 30, IDA Balanagar, Hyderabad 500 037.	APCPDCL
196	Sri K.Parthasaradhi, Advocate, Secretary, All India Lawyers Union, Plot No.168, Lalitha Nagar Colony, Adikmet, Hyderabad 500 044.	All Discoms
197	Sri D.Hanumantha Rao, Secretary, Kukatpally Notified Municipal Industrial Area Service Society, 12&13, 1st Floor, APIIC Complex, Industrial Estate, Kukatpally, Hyderabad 500 072.	APCPDCL
198	Sri I.Gopinath, vice President Corporate Affairs, The India Cements Ltd., White House, Block-III B, III Floor, 6-3-1192/1/1/, Kundanbagh, Beguimpet, Hyderabad 500 016.	APCPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
199	Sri M.V.Rajeswara Rao, Secretary General, The Federation of A.P. Chambers of Commerce & Industry, Federation House, FAPCCI Marg, Red Hills, Hyderabad 500 004.	All Discoms
200	Ms. P.Padma, President, A.P. Rytu Sangam, # 210, Amrutha Estates, Himayatnagar, Hyderabad 500 029.	All Discoms
201	Sri P.Chandra Sekar Reddy, President, Cherlapally Industries Association, CIA Office Complex, Main road, Sector-III, Phase-II, IDA Cherlapally, Rangareddy 500 051.	All Discoms
202	Er. J.S.Rao, Managing Director, M/s Keerthi Industries Ltd., Plot No.40, IDA Balanagar, Hyderabad 500 037.	All Discoms
203	Sri Jerome Inigo Jegam, Plat Head, M/s MRF Ltd., P.B. No. 2, Sadasivapet, Medak Dist 502 291.	APCPDCL
204	Sri V.Anil Reddy, President, A.P. Plastics Manufacturers Association, 304, 3rd Floor, Raghava Ratna Towers, Chirag Ali Lane, Abids, Hyderabad 500 001.	All Discoms
205	Dr. S.Avulapp, Superintendent, Mahavir Hospital & Research Centre, 10-1-1, Bhagwan Mahaveer Marg, A.C.Guards, Hyderabad 500 004.	APCPDCL
206	Sri N.Pratap, President, Warangal District Committee, Akhila Bharatha Karmika Sangala kendram (AICTU), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
207	Sri S.Gangadhar Reddy, All India General Secretary,, Akhila Bharatha Karmika Sangala Kendram (AICTU), MCPI(U) Office, Gajuwaka, Visakhapatnam.	APEPDCL
208	Sri G.Kumara Swamy,General Secretary, Warangal District Committee, Akhila Bharatha Karmika Sangala kendram (AICTU), MCPI(U) Office, Market Road, Under Bridge, Warangal.	APNPDCL
209	Sri R.Nanaji Rao, President, Visakhapatnam District Committee, Akhila Bharatha Karmika Sangala Kendram (AICTU), MCPI(U) Office, Gajuwaka, Visakhapatnam.	APEPDCL
210	Sri T.Anil Kumar, Member, A.P. State Committee, Akhila Bharatha Karmika Sangala kendram (AICTU), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
211	Sri V.Venkata Reddy, General Secretary, A.P. State Committee, Akhila Bharatha Karmika Sangala kendram (AICTU), 1-110/4/M/1, Muzaphar Ahmednagar, Miyapur, Hyderabad 500 049.	APCPDCL
212	Sri T.Chandra Sekhara, M/s Incap Ltd., 1-58, Nidamanuru, Vijayawada 521 104.	All Discoms
213	Sri P.Sobhan Babu, M/s Anu's Laboratories Ltd., A-49, Madhura Nagar, Vengala Rao Nagar, Hyderabad 500 038.	All Discoms
214	Sri R.K.Agarwal, Hon'ble Chairman, A.P. Spinning Mills Association, 105, wst Floor, Surya towers, Sardar Patel Road, Secunderabad 500 003.	All Discoms

Sl. No.	Name & Address of the Objector	Objection Related to
215	Sri B.Anand Kumar, Executive Director, M/s Abhijeet Ferrotech Ltd., plot No.50 & 51, APSEZ, Atchuthapuram, Visakhapatnam 531 011.	APEPDCL
216	Sri S.Surendra Reddy, Babaguda (V), Shameerpet (M), Rangareddy Dist.	All Discoms
217	Sri S.Prabhakar Reddy, Babaguda (V), Bommanapet (P), Shameerpet (M), Rangareddy Dist.	All Discoms
218	Sri K.Raju, A.R.Palli, Chityal (M), via Parakala, Warangal.	All Discoms
219	Sri K.Kumar, Velbiram, Andhulapalli (P), Chityal (M), Parakala, Warangal.	All Discoms
220	Sri B.Sathanarayana Reddy, Nawabpet, Chityal (M), Parakala, Warangal.	All Discoms
221	Sri N.Siva Rama Krishna, Thirumalapur, Chityal (M), Parakala, Warangal.	All Discoms
222	Sri S.Srinivas Reddy, Babaguda (V), Bommanapet (P), Shameerpet (M), Rangareddy Dist.	All Discoms
223	Sri P.Narayana Reddy, Babaguda (V), Shameerpet (M), Rangareddy Dist.	All Discoms
224	Sri M.Raji Reddy, 20-160/1/1, R.B.Nagar, Shamsabad, Rangareddy Dist 501 218.	All Discoms
225	Sri P.Venkata Reddy, Regidi Dosaguda (V), Shabad (M), Rangareddy Dist.	All Discoms
226	Sri I.Laxmaiah, Sultan Pally (V), Shamsabad (M), Rangareddy Dist.	All Discoms
227	Sri Madan Mohan Srivathsava, Rudra colony, Shamsabad (M), Rangareddy Dist.	All Discoms
228	Sri M.Murali Krishna, President, The Andhra Chamber of Commerce and Industry, 40-1-133, 3rd Floor, Corporate Buildin, Hotel Fortune Jn. Beside Chandana Grand, M.G.Road, Vijayawada 520 010.	APSPDCL
229	Managing Partner, M/s Shri Fortune Infra and Homes, Plot 559, Phase III, Road No.92, Jubilee Hills, Hyderabad	APCPDCL
230	Sri C.Satish, 10-5-3/2/6, Masab Tank, Hyderabad 500 028.	APCPDCL
231	Sri P.S.Ellappan, Sandhy Floor Mill, D.No.2/47, Pallipet Road, Pudupet (P), Nagari, Chittoor .	APSPDCL
232	Sri M.Srirama Nagendra Prasad, State Secretary, Bharatiya Kisan Sang, Pothayilanka.	APEPDCL
233	Sri D.Nageshwara Rao, President, Bharatiya Kisan Sang, Konaseemasakha, G.Agraharam, Gangalakurru Malupu, Ambajipet (M), East Godavari Dist.	APEPDCL
234	Sri U.Bhaskara Rao, State Vice President, Bharatiya Kisan Sang, 7-173, Bandarulanka, Amalapuram (M), East Godawari Dist.	APEPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
235	Sri P.Muralikrishna, State President and B.Venkat State General Secretary, A.P. Agricultural Workers Union, 1-1-9/10, Jawahar Nagar, RTC Crossroads, Hyderabad 500 020.	APCPDCL
236	Sri B.Om Prakash, Organizing Secretary, Standing Committee of Tarnaka Residents' Welfare Associations, C/o IFHD, Balaji Residency, 12-13-705/10/AB, Gokulnagar, Tarnaka, Hyderabad 500 017.	APCPDCL
237	Sri K.Manohar Reddy, Nagarjuna Nagar Welfare Association, Street No.13, lane No.2, Tarnaka, Secunderabad 500 017.	APCPDCL
238	Sri J.V.Satyanarayana Murthy, Secretary District Council, Communist Party of India, Visakhapatnam.	All Discoms
239	Sri K.Lokanadham & T.Kranthi Kiran, District Secretary, A.P. Agricultural Workers Union, D.No.28-6-8, Jadadamba Centre, Visakhapatnam 530 020.	APEPDCL
240	Sri B.Hume Sastri, 1 RA JK, Modern Homes, Maharanipeta, Visakhapatnam 530 002.	APEPDCL
241	Sri A.G.V.V.N.Satyanarayana, Managing Director, M/s Akula Boards Ltd., 35-32-2, Yanamandravari Street, Tanuku, West Godawari Dist. 534 211.	All Discoms
242	Sri V.Ganesh, Urban President, Telugu Desham Party, NTR Bhavan, D.No.10-50-69/26, Roackdale Layout, Maharanipeta, Visakhapatnam 530 002.	APEPDCL
243	Sri C.H.L.N.Sastry, President, Visakhapatnam Apartment Residents Welfare Association, B-25, Jeevan Soudha, LIC Apartments, Opp. MMTc colony, HB Colony Road, Visakhapatnam 530 022.	APEPDCL
244	Sri S.Chakrapani, President, Consumers Council, H.No.14-8-252, Charboul, Warangal 506 002.	APNPDCL
245	Sri A.Venkat Reddy, Kura (V), Jinath (M), Adilabad Dist. 504 312.	All Discoms
246	Sri Ch.Srinivas Reddy, Convenor, YSR Congress Party, H.No.23-6-187, Hunter Road, Warangal.	APNPDCL
247	Sri Srinivas, Consumers Council, H.No.14-8-252, Charboul, Warangal 506 002.	APNPDCL
248	Sri Y.Rama Reddy, Jamali (V), Tamiri (M), Adilabad Dist.	All Discoms
249	Sri P.Vasu, Chityal (V & P), Nirmal (M), Adilabad Dist.	All Discoms
250	Sri Y.Narotham Reddy, Kura (V), Jinath (M), Adilabad Dist. 504 312.	All Discoms
251	Sri Ch.Rangayya, District Secretary, A.P. Agricultural Workers Union, D.No.2-5-20, Ramnagar, Hanamkonda 506 004.	APNPDCL
252	Sri B.Ramulu, Warangal dist. Convenor, Prajaswamy Hakkula Parirakshna Samstha, Thimmapuram, Hanamkonda, Warangal 560 005.	APNPDCL

Sl. No.	Name & Address of the Objector	Objection Related to
253	Sri S.Bhooma Reddy, Jamdi (V), Thamsi (M), Adilabad 504 312.	All Discoms
254	Sri A.Baji Reddy, Mudapur (V), Nirmal, Adilabad Dist.	All Discoms
255	Sri A.Koti Reddy, District Secretary, A.P. Agricultural Workers Union, D.No.2/7, Brodipeta, Guntur.	APCPDCL
256	Smt. P.Pavani, M/s Pavani Residency, Trunk Road, SPSR Nellore 524 001.	All Discoms
257	Smt. K.Sridevi, City Secretary, All India Democratic Women Association, C/o Sundarayya Bhavan, Behind Ansari Park, Governorpet, Vijayawada 520 002.	APSPDCL
258	Sri M.V.Anjaneyulu, Secretary, Tax Payers Association, T-2, Boddapati Apartments, 54-16-10, Opp. Layola Collage, Vijayawada 520 008.	APSPDCL
259	Sri J.V.L.N.Murthy, Co-Convener, People for India, C/o LIC of India, P&GS Unit, Jeevan Krishna Building, Besent Road, Governorpet, Vijayawada 520 002.	APSPDCL
260	Sri M.Sankara Reddy, Chief Financial Officer, M/s Nippo Batteries Co. Ltd., Pottipati Plaza, IV Floor, 77, Nungambakkam High Road, Chennai 600 034.	All Discoms
261	Smt. E.Jagadeeswari, Proprietrix, M/s Bhemeswar Poly Packs, Sy.No.325-1, Bandarlappalli (V), Chinakalikiri (P), Puthalapattu (M), Chittoor 517 124	APSPDCL
262	Sri R.Mallikarjuna Prasad Chowdary, Fresh Water Fish Farmers United Association of Nellore District, Eduru (V&P), T.P.Gudur (M), SPSR Nellore Dist.	APSPDCL
263	Sri K.Chengal Reddy, Dhanujavaripally (V), Peddaramapuram (P), Pakal (M), Chittoor Dist.	APSPDCL
264	Sri A.Vikram Reddy, 6-2, Srinagar Colony, Aragonda (V&P), Lavanampally (M), Chittoor 517 129.	APSPDCL
265	Sri C.H.Babu Rao, Vijayawada city Secretary, Communist Party of India (Marxist), Sundarayya Bhavan, Yaamalavari Veedhi, Governorpet, Vijayawada 520 002.	APSPDCL
266	Sri B.V.Ramanaiah, Flat No.386, New R.R. Pet, Vijayawada 520 003.	APSPDCL

# ANNEXURE -F<sub>1</sub>

## Stationwise, Monthwise Combined availability of energy for FY 2013-14 - As per DISCOMs filings

2013-14 - Energy Availability - As per ARR Filings

Generating Station	Energy Availability (MU)												
	April-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14	Total
<b>APGENCO</b>													
<b>Thermal</b>													
VTPS I	258.90	267.66	194.21	267.66	202.91	258.90	267.66	258.90	267.66	267.66	241.77	267.66	3021.54
VTPS II	258.90	267.66	194.21	267.66	202.91	258.90	267.66	258.90	267.66	267.66	241.77	267.66	3021.54
VTPS III	258.90	267.66	194.21	267.66	267.66	258.90	202.91	258.90	267.66	267.66	241.77	267.66	3021.54
VTPS IV	312.43	323.04	312.43	323.04	323.04	156.21	323.04	312.43	323.04	323.04	291.60	323.04	3646.35
RTPP I	264.23	273.16	264.23	273.16	273.22	198.21	136.58	264.23	273.16	273.16	246.74	273.16	3013.26
RTPP Stage-II	258.19	266.92	258.19	202.38	202.40	258.19	266.92	258.19	266.92	266.92	241.10	266.92	3013.26
RTPP Stage-III	129.09	133.46	129.09	68.91	133.49	129.09	133.46	129.09	133.46	133.46	120.55	133.46	1506.63
KTPS A	148.19	153.04	129.68	134.54	153.04	129.68	114.78	148.19	153.04	153.04	138.38	153.04	1708.62
KTPS B	149.62	154.70	149.62	117.22	154.70	149.62	154.70	74.81	154.70	154.70	139.52	154.70	1708.62
KTPS C	146.41	151.39	146.41	151.39	114.71	109.78	151.39	146.41	151.39	151.39	136.53	151.39	1708.62
KTPS D	307.48	317.73	230.61	240.86	317.73	307.48	317.73	307.48	317.73	317.73	286.98	317.73	3587.22
KTPS Stage VI	312.45	323.05	312.45	323.05	166.64	312.45	323.05	312.45	323.05	323.05	291.62	323.05	3646.35
RTS B	38.41	39.72	38.41	39.72	39.72	19.24	39.72	38.41	39.72	39.72	35.90	39.72	448.40
NTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kakatiya Thermal Power Plant Stage I	312.45	323.05	312.45	323.05	323.05	312.45	166.64	312.45	323.05	323.05	291.62	323.05	3646.35
Kakatiya Thermal Power Plant Stage II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	364.64	364.64	729.27
Damodaram Sanjeevaiah Thermal power plant	0.00	0.00	0.00	0.00	0.00	491.44	491.44	491.44	491.44	982.87	982.87	982.87	4914.36
<b>TOTAL THERMAL</b>	<b>3155.64</b>	<b>3262.24</b>	<b>2866.20</b>	<b>3000.30</b>	<b>2875.22</b>	<b>3350.52</b>	<b>3357.68</b>	<b>3572.27</b>	<b>3753.68</b>	<b>4245.11</b>	<b>4293.34</b>	<b>4609.75</b>	<b>42341.95</b>
MACHKUND PH AP Share	12.19	14.23	18.15	22.32	25.34	20.96	25.40	25.40	25.40	25.40	25.40	25.40	265.59
TUNGBHADRA PH AP Share	2.30	2.68	4.01	4.23	19.45	25.51	16.29	16.29	16.29	16.29	16.29	16.29	155.90
USL	30.85	27.52	25.20	27.66	15.62	16.73	41.15	41.15	41.15	41.15	41.15	41.15	390.47
LSR	76.47	89.34	67.23	72.52	81.31	82.46	7.35	20.51	20.51	20.51	20.51	20.51	579.23
DONKARAYI	17.77	21.41	12.05	12.69	14.88	15.10	73.96	76.44	76.44	76.44	76.44	76.44	550.08
SSLM	6.86	13.91	6.30	5.12	0.50	116.29	47.52	47.52	47.52	47.52	47.52	47.52	434.09
NSPH	1.14	2.43	9.65	15.36	0.09	21.94	42.15	42.15	42.15	42.15	42.15	42.15	303.47



# ANNEXURE -F<sub>1</sub>

## Stationwise, Monthwise Combined availability of energy for FY 2013-14 - As per DISCOMs filings

2013-14 - Energy Availability - As per ARR Filings

Generating Station	Energy Availability (MU)												
	April-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14	Total
NSRCPH	0.00	0.00	1.60	2.71	0.00	0.00	15.13	15.13	15.13	15.13	15.13	15.13	95.12
NSLCPH	0.00	0.00	0.00	0.00	0.00	0.00	7.66	7.66	7.66	7.66	7.66	7.66	45.96
POCHAMPAD PH	1.48	0.00	0.00	0.00	0.00	0.00	5.56	5.56	5.56	5.56	5.56	5.56	34.85
NIZAMSAGAR PH	2.15	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	1.35	1.35	1.35	10.25
PABM	0.35	0.00	0.00	0.00	0.36	0.99	0.17	0.16	0.16	0.16	0.16	0.16	2.69
MINI HYDRO&OTHERS	0.13	0.03	0.04	0.20	0.17	0.21	0.29	0.29	0.29	0.29	0.29	0.29	2.50
SINGUR	0.77	0.28	0.23	0.04	0.02	0.31	0.26	0.26	0.26	0.26	0.26	0.26	3.20
SSLM LCPH	8.62	0.05	0.04	0.00	1.14	131.00	50.33	50.33	50.33	50.33	50.33	50.33	442.82
Nagarjunasagar Tail Pond Dam Power House	1.60	0.00	0.00	0.00	0.21	24.70	9.49	9.49	9.49	9.49	9.49	9.49	83.43
Priyadarshini Jurala Hydro Electric Project-AP Share	0.00	0.00	0.00	0.00	22.58	49.77	23.32	19.99	9.16	3.33	1.67	0.00	129.82
Lower Jurala Hydro Electric Project	0.00	0.00	0.00	0.00	25.29	30.42	25.43	24.80	22.76	21.66	21.35	21.03	192.75
Lower Jurala Hydro Electric Project	0.00	0.00	0.00	0.00	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	31.74
<b>TOTAL HYDRO</b>	<b>162.67</b>	<b>171.87</b>	<b>144.50</b>	<b>162.86</b>	<b>210.93</b>	<b>540.36</b>	<b>396.77</b>	<b>408.44</b>	<b>395.57</b>	<b>388.64</b>	<b>386.66</b>	<b>384.68</b>	<b>3753.96</b>
<b>TOTAL APGENCO</b>	<b>3318.31</b>	<b>3434.11</b>	<b>3010.70</b>	<b>3163.16</b>	<b>3086.15</b>	<b>3890.88</b>	<b>3754.44</b>	<b>3980.71</b>	<b>4149.25</b>	<b>4633.76</b>	<b>4680.01</b>	<b>4994.43</b>	<b>46095.92</b>
<b>Central Generating Stations</b>													
<b>NTPC</b>													
<b>NTPC (SR)</b>													
NTPC (SR)	413.84	325.76	368.04	411.92	392.38	406.16	427.62	413.84	427.62	427.62	386.30	427.62	4828.71
NTPC (SR) Stage III	104.50	107.87	104.50	107.87	107.87	104.50	107.87	104.50	107.87	107.87	97.42	107.87	1270.53
<b>Total NTPC(SR)</b>	<b>518.34</b>	<b>433.63</b>	<b>472.54</b>	<b>519.79</b>	<b>500.25</b>	<b>510.66</b>	<b>535.49</b>	<b>518.34</b>	<b>535.49</b>	<b>535.49</b>	<b>483.72</b>	<b>535.49</b>	<b>6099.24</b>
<b>NTPC (ER)</b>													
Farakka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kahalgaoon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Talcher - Stage 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Talcher Stage 2	263.47	272.33	227.63	182.10	212.39	221.86	243.70	235.66	243.70	272.33	245.96	272.33	2893.48
Others	0.00	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>Total NTPC(ER)</b>	<b>263.47</b>	<b>272.33</b>	<b>227.63</b>	<b>182.10</b>	<b>212.39</b>	<b>221.86</b>	<b>243.70</b>	<b>235.66</b>	<b>243.70</b>	<b>272.33</b>	<b>245.96</b>	<b>272.33</b>	<b>2893.48</b>
<b>Total NTPC</b>	<b>781.82</b>	<b>705.96</b>	<b>700.17</b>	<b>701.90</b>	<b>712.64</b>	<b>732.52</b>	<b>779.19</b>	<b>754.01</b>	<b>779.19</b>	<b>807.82</b>	<b>729.68</b>	<b>807.82</b>	<b>8992.72</b>

# ANNEXURE -F<sub>1</sub>

## Stationwise, Monthwise Combined availability of energy for FY 2013-14 - As per DISCOMs filings

2013-14 - Energy Availability - As per ARR Filings

Generating Station	Energy Availability (MU)												
	April-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14	Total
<b>NLC TS-II</b>													
Stage-I	59.31	62.30	59.50	56.88	42.85	55.57	41.91	43.78	38.92	55.01	54.45	60.43	630.90
Stage-II	104.32	109.28	104.57	73.84	89.46	77.31	89.21	77.07	105.32	106.55	96.89	106.80	1140.62
<b>Total NLC</b>	<b>163.63</b>	<b>171.58</b>	<b>164.07</b>	<b>130.72</b>	<b>132.30</b>	<b>132.88</b>	<b>131.12</b>	<b>120.85</b>	<b>144.23</b>	<b>161.56</b>	<b>151.34</b>	<b>167.24</b>	<b>1771.52</b>
<b>NPC</b>													
NPC-MAPS	24.60	25.20	24.60	25.20	12.60	24.60	25.20	24.60	25.20	25.20	21.50	25.20	283.70
NPC-Kaiga unit I	77.49	79.38	77.49	79.38	79.38	77.49	39.69	77.49	79.38	79.38	68.67	79.38	894.60
NPC-Kaiga unit II	39.98	40.95	39.98	40.95	40.95	0.00	40.95	39.98	40.95	40.95	35.43	40.95	442.00
<b>Total NPC</b>	<b>142.07</b>	<b>145.53</b>	<b>142.07</b>	<b>145.53</b>	<b>132.93</b>	<b>102.09</b>	<b>105.84</b>	<b>142.07</b>	<b>145.53</b>	<b>145.53</b>	<b>125.60</b>	<b>145.53</b>	<b>1620.30</b>
<b>NTPC - Simhadri</b>													
NTPC Simhadri Stage I	600.00	620.00	600.00	620.00	460.00	520.00	620.00	600.00	620.00	620.00	600.00	620.00	7100.00
NTPC Simhadri Stage II	260.58	269.27	130.29	260.58	269.27	260.58	269.27	260.58	269.27	269.27	260.58	269.27	3048.79
<b>Total NTPC- Simhadri</b>	<b>860.58</b>	<b>889.27</b>	<b>730.29</b>	<b>880.58</b>	<b>729.27</b>	<b>780.58</b>	<b>889.27</b>	<b>860.58</b>	<b>889.27</b>	<b>889.27</b>	<b>860.58</b>	<b>889.27</b>	<b>10148.79</b>
<b>CGS - New</b>													
<b>NPC-Kaiga unit IV</b>	39.98	40.95	39.98	40.95	40.95	39.98	40.95	39.98	40.95	40.95	35.43	40.95	481.98
Bundled power under JVNSM	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	307.91
Vallur Thermal Power Plant	82.90	85.66	82.90	66.49	85.66	82.90	85.66	64.91	85.66	128.50	116.06	128.50	1095.80
													0.00
Total of CGS-New	148.53	152.27	148.53	133.10	152.27	148.53	152.27	130.54	152.27	195.10	177.14	195.10	1885.69
<b>TOTAL CGS</b>	<b>2096.63</b>	<b>2064.61</b>	<b>1885.13</b>	<b>1991.83</b>	<b>1859.41</b>	<b>1896.61</b>	<b>2057.68</b>	<b>2008.05</b>	<b>2110.49</b>	<b>2199.28</b>	<b>2044.34</b>	<b>2204.96</b>	<b>24419.02</b>
<b>APGPCL</b>													
APGPCL I - Allocated capacity	5.93	6.13	5.93	6.13	6.13	10.30	6.13	5.93	6.13	6.13	5.53	6.13	76.50
APGPCL I - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL II - Allocated capacity	18.90	19.53	18.90	19.53	19.53	0.00	19.53	18.90	19.53	19.53	17.64	19.53	211.06

# ANNEXURE -F<sub>1</sub>

## Stationwise, Monthwise Combined availability of energy for FY 2013-14 - As per DISCOMs filings

2013-14 - Energy Availability - As per ARR Filings

Generating Station	Energy Availability (MU)												
	April-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14	Total
APGPCL II - Unutilised capacity	0.00	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>Total APGPCL</b>	<b>24.83</b>	<b>25.66</b>	<b>24.83</b>	<b>25.66</b>	<b>25.66</b>	<b>10.30</b>	<b>25.66</b>	<b>24.83</b>	<b>25.66</b>	<b>25.66</b>	<b>23.17</b>	<b>25.66</b>	<b>287.56</b>
<b>IPPS</b>													
GVK	95.35	96.81	95.93	98.94	97.19	95.35	98.94	95.93	99.42	98.94	89.63	98.26	1160.70
Spectrum	98.07	101.34	98.07	101.34	101.34	98.07	101.34	98.07	67.56	101.34	98.99	98.07	1163.62
Kondapalli (Naphtha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kondapalli (Gas)	156.72	156.72	156.72	156.72	156.72	156.72	156.72	156.72	156.72	156.72	156.72	156.72	1880.64
BSES	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	792.00
GVK Extension	0.00	3.97	5.61	4.81	3.99	3.20	2.75	2.21	1.89	1.57	1.18	1.08	32.25
Vemagiri	12.30	11.72	9.43	8.09	6.70	5.37	4.17	3.72	3.18	2.39	1.98	1.82	70.88
Gautami	17.14	14.70	8.87	7.10	8.40	6.74	5.79	4.67	3.98	3.32	2.48	2.28	85.48
Konaseema	16.41	14.07	11.32	9.71	8.04	3.53	5.54	4.47	3.81	3.17	2.37	2.18	84.63
<b>TOTAL IPPS</b>	<b>461.99</b>	<b>465.33</b>	<b>451.96</b>	<b>452.72</b>	<b>448.39</b>	<b>434.99</b>	<b>441.26</b>	<b>431.79</b>	<b>402.57</b>	<b>433.45</b>	<b>419.35</b>	<b>426.40</b>	<b>5270.19</b>
<b>NCE</b>													
NCE - Bio-Mass	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	1401.60
NCE - Bagasse	20.87	24.93	12.00	3.87	2.60	2.60	20.87	24.93	12.00	3.87	2.60	2.60	133.75
NCE - Municipal Waste to Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE - Industrial Waste based power project	7.33	8.42	9.26	5.89	2.02	2.02	7.33	8.42	9.26	5.89	2.02	2.02	69.89
NCE - Wind Power	30.68	30.68	245.40	245.40	245.40	245.40	30.68	30.68	30.68	30.68	30.68	30.68	1227.01
NCE - Mini Hydel	2.11	3.75	7.16	5.42	5.80	5.80	2.11	3.75	7.16	5.42	5.80	5.80	60.09
NCE - NCL Energy Ltd	0.00	0.00	0.00	0.00	2.89	2.89	0.00	0.00	0.00	0.00	2.89	2.89	11.57
NCE-Others	7.29	7.29	7.29	7.29	7.29	7.29	87.59	87.59	87.59	87.59	87.59	87.59	569.33
<b>TOTAL NCE</b>	<b>185.07</b>	<b>191.87</b>	<b>397.92</b>	<b>384.68</b>	<b>382.82</b>	<b>382.81</b>	<b>265.37</b>	<b>272.17</b>	<b>263.49</b>	<b>250.25</b>	<b>248.39</b>	<b>248.38</b>	<b>3473.23</b>
<b>OTHERS</b>													
Srivathsa	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	43.40
LVS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vishakapatnam Steel Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# ANNEXURE -F<sub>1</sub>

## Stationwise, Monthwise Combined availability of energy for FY 2013-14 - As per DISCOMs filings

2013-14 - Energy Availability - As per ARR Filings

Generating Station	Energy Availability (MU)												
	April-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14	Total
NB 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	0.00
Corporate Power (MT)	0.00	0.00	36.34	75.11	75.11	72.69	75.11	72.69	75.11	75.11	67.84	75.11	700.23
KSK Mahanadi (MT)	0.00	0.00	96.92	200.30	200.30	193.84	200.30	193.84	200.30	200.30	180.91	200.30	1867.28
Hinduja	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	238.29	238.29	238.29	238.29	953.16
RLNG based IPP's	674.82	675.57	675.20	405.62	675.19	508.21	674.65	675.09	339.29	0.00	29.20	675.12	6007.97
Bi-lateral Sales( PTC etc.)	267.24	267.24	267.24	267.24	267.24	267.24	267.24	267.24	267.24	123.21	267.24	267.24	3062.85
Pool Purchases/Sales (Pool Purchase)	66.96	97.92	52.70	9.47	0.00	18.90	0.00	0.00	0.00	0.00	29.11	196.83	471.89
Pool Purchases/Sales (Pool Sales)	0.00	0.00	0.00	0.00	-7.28	0.00	-8.13	-158.77	-43.64	-9.59	0.00	0.00	-227.41
<b>TOTAL OTHERS</b>	<b>1012.64</b>	<b>1044.34</b>	<b>1132.02</b>	<b>961.36</b>	<b>1214.17</b>	<b>1064.49</b>	<b>1212.79</b>	<b>1053.70</b>	<b>1080.21</b>	<b>630.94</b>	<b>816.21</b>	<b>1656.51</b>	<b>12879.37</b>
<b>MARKET</b>													
PTC													0.00
RCL and Short-Term Sources(IG Wells, Kesoram)													0.00
UI													0.00
Other Short Term Sources													0.00
Corporate Power (MT)	0.00	0.00	6.86	14.17	14.17	13.71	14.17	13.71	14.17	14.17	12.80	14.17	132.09
KSK Mahanadi (MT)	0.00	0.00	18.28	37.78	37.78	36.56	37.78	36.56	37.78	37.78	34.13	37.78	352.24
Hinduja	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.95	44.95	44.95	44.95	179.80
RLNG based IPP's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bi-lateral Sales( PTC etc.)	743.16	743.16	743.16	743.16	743.16	743.16	743.16	743.16	743.16	342.64	743.16	743.16	8517.40
Bi-lateral Purchases( PTC etc.)	189.60	189.60	189.60	189.60	189.60	189.60	189.60	189.60	189.60	87.42	189.60	189.60	2173.02
Pool Purchases	4.72	244.62	170.47	139.79	82.57	95.80	166.12	158.77	147.17	55.54	53.03	37.69	1356.30
Pool Sales	-71.68	-342.54	-223.17	-149.27	-75.29	-114.70	-157.99	0.00	-103.54	-45.95	-82.14	-234.53	-1600.78
<b>TOTAL MARKET</b>	<b>865.80</b>	<b>834.84</b>	<b>905.20</b>	<b>975.24</b>	<b>991.99</b>	<b>964.14</b>	<b>992.84</b>	<b>1141.80</b>	<b>1073.30</b>	<b>536.55</b>	<b>995.53</b>	<b>832.83</b>	<b>11110.06</b>
<b>TOTAL (From All Sources)</b>	<b>7965.28</b>	<b>8060.77</b>	<b>7807.75</b>	<b>7954.64</b>	<b>8008.59</b>	<b>8644.21</b>	<b>8750.04</b>	<b>8913.06</b>	<b>9104.97</b>	<b>8709.89</b>	<b>9226.99</b>	<b>10389.18</b>	<b>103535.36</b>

## ANNEXURE - F<sub>2</sub>

### STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2013-14

#### Energy Availability - APERC

Generating Station	Var. Cost (₹/ kWh)	Energy Availability (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>APGENCO</b>														
<b>Thermal</b>														
VTPS I	2.49	248.20	256.60	248.20	128.30	219.36	252.40	128.30	220.64	256.60	256.60	231.78	256.60	2703.55
VTPS II	2.49	248.20	256.60	186.19	256.60	194.53	248.20	256.60	248.20	256.60	256.60	231.78	256.60	2896.66
VTPS III	2.49	248.20	256.60	186.19	256.60	256.60	248.20	194.53	248.20	256.60	256.60	231.78	256.60	2896.66
VTPS IV	2.71	299.70	309.88	299.70	309.88	309.88	149.85	309.88	299.70	309.88	309.88	279.72	309.88	3497.80
RTPP I	3.23	247.52	255.89	247.52	255.89	255.95	185.68	127.95	247.52	255.89	255.89	231.14	255.89	2822.73
RTPP Stage-II	3.23	247.52	255.89	247.52	194.01	194.04	247.52	255.89	247.52	255.89	255.89	231.14	255.89	2888.73
RTPP Stage-III	3.23	123.76	127.95	123.76	66.07	127.97	123.76	127.95	123.76	127.95	127.95	115.57	127.95	1444.38
KTPS A	1.97	132.56	136.89	116.00	120.35	136.89	116.00	102.67	132.56	136.89	136.89	123.78	136.89	1528.40
KTPS B	1.97	132.74	137.26	132.74	104.00	137.26	132.74	137.26	66.37	137.26	137.26	123.78	137.26	1515.91
KTPS C	1.97	132.74	137.26	132.74	137.26	104.00	99.53	137.26	132.74	137.26	137.26	123.78	137.26	1549.07
KTPS V / D	1.53	294.84	304.67	221.13	230.96	304.67	294.84	304.67	294.84	304.67	304.67	275.18	304.67	3439.80
KTPS Stage VI	2.61	299.7	309.9	299.7	309.9	159.8	299.7	309.9	299.7	309.9	309.9	279.7	309.9	3497.61
RTS B	2.30	34.8	35.9	34.8	35.9	35.9	17.4	35.9	34.8	<b>35.9</b>	35.9	32.5	35.9	405.80
Kakatiya Thermal Power Plant Stage I	2.57	299.70	309.88	299.70	309.88	309.88	299.70	159.84	299.70	309.88	309.88	279.72	309.88	3497.61
Kakatiya Thermal Power Plant Stage II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Damodaram Sanjeevaiah Thermal Power Plant (DSTPP-1)	2.23	0	0	0	0	0	0	0	0	0	473.11	427.295	473.11	1373.52
<b>TOTAL THERMAL</b>	<b>2.51</b>	<b>2990.14</b>	<b>3091.16</b>	<b>2775.85</b>	<b>2715.59</b>	<b>2746.79</b>	<b>2715.52</b>	<b>2588.59</b>	<b>2896.22</b>	<b>3091.16</b>	<b>3564.27</b>	<b>3218.65</b>	<b>3564.27</b>	<b>35958.21</b>
MACHKUND PH AP Share	0.00	29.51	28.65	23.16	27.21	28.23	30.94	31.85	28.20	27.35	29.25	26.42	27.21	337.98
TUNGBHADRA PH AP Share	0.00	2.57	0.40	0.10	7.92	22.57	21.68	20.59	17.23	13.86	14.55	11.39	10.49	143.35
USL	0.00	35.05	30.79	28.73	37.66	37.75	31.80	32.62	27.87	35.87	44.15	46.41	55.26	443.96
LSR	0.00	94.14	79.37	70.57	86.15	90.77	89.05	91.16	76.74	85.23	102.42	102.42	115.82	1083.83
DONKARAYI	0.00	7.59	5.69	4.56	5.69	7.37	7.51	8.36	8.04	9.26	10.83	10.63	11.63	97.17
SSLM RBPH	0.00	53.16	20.00	30.55	75.93	277.60	326.21	167.11	89.50	58.41	68.41	93.06	99.69	1359.63
NSPH	0.00	21.29	8.99	11.94	122.46	223.15	325.71	248.79	97.81	34.16	50.39	32.56	41.09	1218.33
NSRCPH	0.00	1.85	0.00	0.00	0.68	13.11	25.93	33.23	29.24	21.26	13.31	7.13	4.46	150.19

## ANNEXURE - F<sub>2</sub>

### STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2013-14

#### Energy Availability - APERC

Generating Station	Var. Cost (₹/ kWh)	Energy Availability (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
NSLCPH	0.00	0.49	0.00	0.00	0.54	6.40	13.88	17.03	13.60	8.97	5.23	1.76	0.53	68.43
POCHAMPAD PH	0.00	1.44	0.00	0.00	1.28	8.40	11.63	12.90	10.11	8.36	8.38	6.38	5.20	74.05
NIZAMSAGAR PH	0.00	0.91	0.14	0.00	0.06	0.53	1.61	2.19	0.64	0.82	1.78	1.59	1.79	12.08
PABM	0.00	0.04	0.07	0.04	0.03	1.06	1.28	1.38	1.47	0.83	0.45	0.12	0.19	6.94
MINI HYDRO&OTHERS	0.00	0.57	0.04	0.18	0.44	1.24	1.42	1.58	1.46	1.27	1.31	1.11	0.96	11.56
SINGUR	0.00	0.48	0.21	0.09	0.29	0.67	2.19	1.83	0.23	0.19	0.43	0.51	1.09	8.20
SSLM LBPH	0.00	58.59	23.81	15.93	91.29	323.17	388.58	224.18	109.87	85.05	90.50	114.31	117.37	1642.65
Nagarjunasagar Tail Pond Dam Power House	0.00													
Priyadarshini Jurala Hydro Electric Project- AP Share	0.00	0.00	0.00	4.95	4.95	83.16	83.16	49.50	19.80	19.80	9.90	9.90	0.00	285.12
Lower Jurala Hydro Electric Project	0.00				13.35	29.00	18.10	22.58	19.82	3.14	3.78	1.73	1.65	113.14
Pochampadu-IV (New project)	0.00													0.00
<b>TOTAL HYDRO</b>	<b>0.00</b>	307.67	198.15	190.79	475.93	1154.17	1380.67	966.87	551.61	413.81	455.05	467.43	494.43	7056.61
<b>TOTAL APGENCO</b>	<b>2.10</b>	3297.82	3289.31	2966.64	3191.52	3900.96	4096.19	3555.46	3447.83	3504.97	4019.32	3686.08	4058.70	43014.82
<b>Central Generating Stations</b>														
<b>NTPC</b>														
<b>NTPC (SR)</b>														
NTPC (SR)	1.69	463.54	473.98	457.97	331.30	449.96	449.96	470.50	414.47	448.92	473.98	451.70	478.85	5365.12
NTPC (SR) Stage III	2.38	117.00	121.00	117.00	121.00	121.00	117.00	121.00	117.00	121.00	121.00	109.00	121.00	1424.00
<b>Total NTPC(SR)</b>	<b>1.83</b>	580.54	594.98	574.97	452.30	570.96	566.96	591.50	531.47	569.92	594.98	560.70	599.85	6789.12
<b>NTPC (ER)</b>														
Farakka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kahalgaon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Talcher - Stage 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Talcher Stage 2	1.32	287.53	297.07	215.70	253.24	248.47	197.47	297.07	287.53	297.07	300.11	280.80	300.11	3262.16
Others	0.00	0.00	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>Total NTPC(ER)</b>	<b>1.32</b>	287.53	297.07	215.70	253.24	248.47	197.47	297.07	287.53	297.07	300.11	280.80	300.11	3262.16
<b>Total NTPC</b>	<b>1.67</b>	868.06	892.05	790.67	705.54	819.43	764.43	888.57	818.99	866.99	895.09	841.50	899.96	10051.28

## ANNEXURE - F<sub>2</sub>

### STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2013-14

#### Energy Availability - APERC

Generating Station	Var. Cost (₹/ kWh)	Energy Availability (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>NLC TS-II</b>														
NLC TS-II Stage-I	1.99	66.79	69.57	60.18	53.14	69.57	52.92	44.17	54.20	57.83	69.57	64.66	69.57	732.18
NLC TS-II Stage-II	1.99	117.18	116.09	117.18	101.10	84.75	99.74	106.82	85.02	89.65	120.99	113.63	120.99	1273.12
<b>Total NLC</b>	1.99	183.97	185.65	177.35	154.23	154.32	152.66	150.99	139.22	147.48	190.56	178.29	190.56	2005.30
<b>NPC</b>														
NPC-MAPS	2.04	24.60	25.20	24.60	25.20	12.60	24.60	25.20	24.60	25.20	25.20	21.50	25.20	283.70
NPC-Kaiga unit I & II	3.01	77.49	79.38	77.49	79.38	79.38	77.49	39.69	77.49	79.38	79.38	68.67	79.38	894.60
NPC-Kaiga unit III & IV	3.01	79.95	81.90	79.95	81.90	81.90	39.98	81.90	79.95	81.90	81.90	70.85	81.90	923.98
<b>Total NPC</b>	2.87	182.04	186.48	182.04	186.48	173.88	142.07	146.79	182.04	186.48	186.48	161.02	186.48	2102.28
<b>NTPC - Simhadri</b>														
NTPC Simhadri Stage I	1.94	640.00	661.00	640.00	661.00	490.00	469.00	661.00	640.00	661.00	661.00	597.00	661.00	7442.00
NTPC Simhadri Stage II	1.97	174.00	180.00	174.00	180.00	180.00	343.00	355.00	169.00	368.00	386.00	346.00	398.00	3253.00
<b>Total NTPC- Simhadri</b>	1.95	814.00	841.00	814.00	841.00	670.00	812.00	1016.00	809.00	1029.00	1047.00	943.00	1059.00	10695.00
<b>CGS - New</b>														
<b>NPC-Kaiga unit IV</b>	3.31	39.98	40.95	39.98	40.95	40.95	39.98	40.95	39.98	40.95	40.95	35.43	40.95	481.98
Bundled power under JVNSM	2.62	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	307.91
Vallur Thermal Power Plant	2.75	82.90	85.66	82.90	66.49	85.66	82.90	85.66	64.91	85.66	128.50	116.06	128.50	1095.80
Total of CGS-New	0.00	148.53	152.27	148.53	133.10	152.27	148.53	152.27	130.54	152.27	195.10	177.14	195.10	1885.69
<b>TOTAL CGS</b>	1.92	2196.60	2257.46	2112.59	2020.35	1969.90	2019.69	2354.63	2079.80	2382.23	2514.23	2300.96	2531.10	26739.54
<b>APGPCL</b>														
APGPCL I - Allocated capacity	2.33	5.53	5.72	3.61	5.72	10.42	5.53	5.72	5.53	5.72	5.72	5.35	5.72	70.27
APGPCL I - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL II - Allocated capacity	2.07	18.61	19.23	18.61	19.23	0.62	18.61	19.23	18.61	19.23	19.23	17.99	19.23	208.43
APGPCL II - Unutilised capacity	0.00	0.00	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>Total APGPCL</b>	2.14	24.14	24.95	22.22	24.95	11.04	24.14	24.95	24.14	24.95	24.95	23.34	24.95	278.70

## ANNEXURE - F<sub>2</sub>

### STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2013-14

#### Energy Availability - APERC

Generating Station	Var. Cost (₹/ kWh)	Energy Availability (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>IPPS</b>														
GVK	2.15	80.10	79.90	79.70	79.50	79.31	79.11	78.91	78.71	78.52	78.32	78.12	77.93	948.14
Spectrum	2.15	73.14	71.67	70.24	68.84	67.46	66.11	64.79	63.49	62.22	60.98	59.76	58.56	787.26
Kondapalli (Naphtha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kondapalli (Gas)	2.20	120.58	120.19	119.80	119.41	119.02	118.63	118.25	117.86	117.48	117.10	116.72	116.34	1421.36
BSES (Reliance)	2.03	37.73	37.36	36.99	36.62	36.26	35.90	35.54	35.19	34.84	34.50	34.16	33.82	428.90
GVK Extension	2.10	0.00	3.98	5.61	4.81	3.99	3.19	2.75	2.21	1.89	1.57	1.17	1.08	32.24
Vemagiri	2.09	12.30	11.72	9.43	8.09	6.70	5.37	4.17	3.72	3.18	2.39	1.98	1.81	70.87
Gautami	2.09	17.14	14.70	8.88	7.10	8.40	6.74	5.79	4.67	3.99	3.32	2.48	2.28	85.48
Konaseema	2.11	16.40	14.07	11.32	9.71	8.04	3.53	5.55	4.46	3.81	3.17	2.38	2.18	84.62
<b>TOTAL IPPS</b>	<b>2.15</b>	<b>357.39</b>	<b>353.58</b>	<b>341.96</b>	<b>334.08</b>	<b>329.17</b>	<b>318.59</b>	<b>315.74</b>	<b>310.32</b>	<b>305.93</b>	<b>301.34</b>	<b>296.77</b>	<b>294.00</b>	<b>3858.87</b>
<b>NCE</b>														
NCE - Bio-Mass	4.13	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	1401.60
NCE - Bagasse	3.31	20.87	24.93	12.00	3.87	2.60	2.60	20.87	24.93	12.00	3.87	2.60	2.60	133.75
NCE - Municipal Waste to Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE - Industrial Waste based power project	4.65	7.33	8.42	9.26	5.89	2.02	2.02	7.33	8.42	9.26	5.89	2.02	2.02	69.89
NCE - Wind Power	4.55	30.68	30.68	245.40	245.40	245.40	245.40	30.68	30.68	30.68	30.68	30.68	30.68	1227.01
NCE - Mini Hydel	2.34	2.11	3.75	7.16	5.42	5.80	5.80	2.11	3.75	7.16	5.42	5.80	5.80	60.09
NCE - NCL Energy Ltd	1.78	0.00	0.00	0.00	0.00	2.89	2.89	0.00	0.00	0.00	0.00	2.89	2.89	11.57
NCE-Others	5.50	7.29	7.29	7.29	7.29	7.29	7.29	87.59	87.59	87.59	87.59	87.59	87.59	569.33
<b>TOTAL NCE</b>	<b>4.44</b>	<b>185.07</b>	<b>191.87</b>	<b>397.92</b>	<b>384.68</b>	<b>382.82</b>	<b>382.81</b>	<b>265.37</b>	<b>272.17</b>	<b>263.49</b>	<b>250.25</b>	<b>248.39</b>	<b>248.38</b>	<b>3473.23</b>
<b>OTHERS</b>														
Srivathsa	2.51	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	43.40
LVS	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vishakapatnam Steel Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NB 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	0.00	0.00
RLNG based IPP's	8.97	674.82	675.57	675.20	405.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2431.21
<b>TOTAL OTHERS</b>	<b>2.51</b>	<b>678.44</b>	<b>679.18</b>	<b>678.82</b>	<b>409.24</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>3.62</b>	<b>2474.61</b>



## ANNEXURE - F<sub>2</sub>

### STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2013-14

#### Energy Availability - APERC

Generating Station	Var. Cost (₹/ kWh)	Energy Availability (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>MARKET</b>														
PTC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RCL and Short-Term Sources(IG Wells,Kesoram)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Short Term Sources	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pool Purchases	4.50	234.76	283.62	300.34	189.71	114.48	140.98	250.85	188.29	91.54	77.70	129.89	167.08	2169.24
Bi-lateral Sales( PTC etc.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UI Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pool Sales	4.50	-234.76	-283.62	-300.34	-189.71	-114.48	-140.98	-250.85	-188.29	-91.54	-77.70	-129.89	-167.08	-2169.24
	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>TOTAL MARKET</b>	4.50	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL (From All Sources)</b>	<b>2.23</b>	6739.47	6796.35	6520.14	6364.82	6597.50	6845.04	6519.77	6137.89	6485.19	7113.71	6559.15	7160.75	79839.77

### ANNEXURE -F<sub>3</sub>

#### STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2013-14

##### Energy Despatch - APERC

Station Name	Var. Cost (₹ / kWh)	Energy Despatch (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>NCE</b>														
NCE - Bio-Mass	4.13	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	116.80	1401.60
NCE - Bagasse	3.31	20.87	24.93	12.00	3.87	2.60	2.60	20.87	24.93	12.00	3.87	2.60	2.60	133.75
NCE - Municipal Waste to Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE - Industrial Waste based power project	4.65	7.33	8.42	9.26	5.89	2.02	2.02	7.33	8.42	9.26	5.89	2.02	2.02	69.89
NCE - Wind Power	4.55	30.68	30.68	245.40	245.40	245.40	245.40	30.68	30.68	30.68	30.68	30.68	30.68	1227.01
NCE - Mini Hydel	2.34	2.11	3.75	7.16	5.42	5.80	5.80	2.11	3.75	7.16	5.42	5.80	5.80	60.09
NCE - NCL Energy Ltd	1.78	0.00	0.00	0.00	0.00	2.89	2.89	0.00	0.00	0.00	0.00	2.89	2.89	11.57
NCE-Others	5.50	7.29	7.29	7.29	7.29	7.29	7.29	87.59	87.59	87.59	87.59	87.59	87.59	569.33
<b>TOTAL NCE</b>		<b>185.07</b>	<b>191.87</b>	<b>397.92</b>	<b>384.68</b>	<b>382.82</b>	<b>382.81</b>	<b>265.37</b>	<b>272.17</b>	<b>263.49</b>	<b>250.25</b>	<b>248.39</b>	<b>248.38</b>	<b>3473.23</b>
<b>NPC</b>														
NPC-MAPS	2.04	24.60	25.20	24.60	25.20	12.60	24.60	25.20	24.60	25.20	25.20	21.50	25.20	283.70
NPC-Kaiga unit I	3.01	77.49	79.38	77.49	79.38	79.38	77.49	39.69	77.49	79.38	79.38	68.67	79.38	894.60
NPC-Kaiga unit II	3.01	79.95	81.90	79.95	81.90	81.90	39.98	81.90	79.95	81.90	81.90	70.85	81.90	923.98
NPC-Kaiga unit IV	3.31	39.98	40.95	39.98	40.95	40.95	39.98	40.95	39.98	40.95	40.95	35.43	40.95	481.98
<b>Total NPC</b>		<b>222.02</b>	<b>227.43</b>	<b>222.02</b>	<b>227.43</b>	<b>214.83</b>	<b>182.04</b>	<b>187.74</b>	<b>222.02</b>	<b>227.43</b>	<b>227.43</b>	<b>196.45</b>	<b>227.43</b>	<b>2584.25</b>
<b>Total of Must-Run Stations :</b>		<b>367.11</b>	<b>378.35</b>	<b>579.96</b>	<b>571.16</b>	<b>556.70</b>	<b>524.88</b>	<b>412.16</b>	<b>454.21</b>	<b>449.97</b>	<b>436.73</b>	<b>409.41</b>	<b>434.86</b>	<b>5575.51</b>
MACHKUND PH AP Share	-	29.51	28.65	23.16	27.21	28.23	30.94	31.85	28.20	27.35	29.25	26.42	27.21	337.98
TUNGBHADRA PH AP Share	-	2.57	0.40	0.10	7.92	22.57	21.68	20.59	17.23	13.86	14.55	11.39	10.49	143.35
USL	-	35.05	30.79	28.73	37.66	37.75	31.80	32.62	27.87	35.87	44.15	46.41	55.26	443.96
LSR	-	94.14	79.37	70.57	86.15	90.77	89.05	91.16	76.74	85.23	102.42	102.42	115.82	1083.83
DONKARAYI	-	7.59	5.69	4.56	5.69	7.37	7.51	8.36	8.04	9.26	10.83	10.63	11.63	97.17
SSLM RBPH	-	53.16	20.00	30.55	75.93	277.60	326.21	167.11	89.50	58.41	68.41	93.06	99.69	1359.63
NSPH	-	21.29	8.99	11.94	122.46	223.15	325.71	248.79	97.81	34.16	50.39	32.56	41.09	1218.33
NSRCPH	-	1.85	0.00	0.00	0.68	13.11	25.93	33.23	29.24	21.26	13.31	7.13	4.46	150.19
NSLCPH	-	0.49	0.00	0.00	0.54	6.40	13.88	17.03	13.60	8.97	5.23	1.76	0.53	68.43
POCHAMPAD PH	-	1.44	0.00	0.00	1.28	8.40	11.63	12.90	10.11	8.36	8.38	6.38	5.20	74.05

### ANNEXURE -F<sub>3</sub>

#### STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2013-14

##### Energy Despatch - APERC

Station Name	Var. Cost (₹ / kWh)	Energy Despatch (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
NIZAMSAGAR PH	-	0.91	0.14	0.00	0.06	0.53	1.61	2.19	0.64	0.82	1.78	1.59	1.79	12.08
PABM	-	0.04	0.07	0.04	0.03	1.06	1.28	1.38	1.47	0.83	0.45	0.12	0.19	6.94
MINI HYDRO&OTHERS	-	0.57	0.04	0.18	0.44	1.24	1.42	1.58	1.46	1.27	1.31	1.11	0.96	11.56
SINGUR	-	0.48	0.21	0.09	0.29	0.67	2.19	1.83	0.23	0.19	0.43	0.51	1.09	8.20
SSLM LBPH	-	58.59	23.81	15.93	91.29	323.17	388.58	224.18	109.87	85.05	90.50	114.31	117.37	1642.65
Priyadarshini Jurala Hydro Electric Project- AP Share	-	0.00	0.00	4.95	4.95	83.16	83.16	49.50	19.80	19.80	9.90	9.90	0.00	285.12
Lower Jurala Hydro Electric Project	-	0.00	0.00	0.00	13.35	29.00	18.10	22.58	19.82	3.14	3.78	1.73	1.65	113.14
APGPCL I - Unutilised capacity	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL II - Unutilised capacity	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kondapalli (Naphtha)	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Talcher Stage 2	1.32	287.53	297.07	215.70	253.24	248.47	197.47	297.07	287.53	297.07	300.11	280.80	300.11	3262.16
KTPS V / D	1.53	294.84	304.67	221.13	230.96	304.67	294.84	304.67	294.84	304.67	304.67	275.18	304.67	3439.80
NTPC (SR)	1.69	463.54	473.98	457.97	331.30	449.96	449.96	470.50	414.47	448.92	473.98	451.70	478.85	5365.12
NTPC Simhadri Stage I	1.94	640.00	661.00	640.00	661.00	490.00	469.00	661.00	640.00	661.00	661.00	597.00	661.00	7442.00
KTPS A	1.97	132.56	136.89	116.00	120.35	136.89	116.00	102.67	132.56	136.89	136.89	123.78	136.89	1528.40
KTPS B	1.97	132.74	137.26	132.74	104.00	137.26	132.74	137.26	66.37	137.26	137.26	123.78	137.26	1515.91
KTPS C	1.97	132.74	137.26	132.74	137.26	104.00	99.53	137.26	132.74	137.26	137.26	123.78	137.26	1549.07
NTPC Simhadri Stage II	1.97	174.00	180.00	174.00	180.00	180.00	343.00	355.00	169.00	368.00	386.00	346.00	398.00	3253.00
NLC TS-II Stage-I	1.99	66.79	69.57	60.18	53.14	69.57	52.92	44.17	54.20	57.83	69.57	64.66	69.57	732.18
NLC TS-II Stage-II	1.99	117.18	116.09	117.18	101.10	84.75	99.74	106.82	85.02	89.65	120.99	113.63	120.99	1273.12
BSES (Reliance)	2.03	37.73	37.36	36.99	36.62	36.26	35.90	35.54	35.19	34.84	34.50	34.16	33.82	428.90
APGPCL II - Allocated capacity	2.07	18.61	19.23	18.61	19.23	0.62	18.61	19.23	18.61	19.23	19.23	17.99	19.23	208.43
Vemagiri	2.09	12.30	11.72	9.43	8.09	6.70	5.37	4.17	3.72	3.18	2.39	1.98	1.81	70.87
Gautami	2.09	17.14	14.70	8.88	7.10	8.40	6.74	5.79	4.67	3.99	3.32	2.48	2.28	85.48
GVK Extension	2.10	0.00	3.98	5.61	4.81	3.99	3.19	2.75	2.21	1.89	1.57	1.17	1.08	32.24
Konaseema	2.11	16.40	14.07	11.32	9.71	8.04	3.53	5.55	4.46	3.81	3.17	2.38	2.18	84.62
Spectrum	2.15	73.14	71.67	70.24	68.84	67.46	66.11	64.79	63.49	62.22	60.98	59.76	58.56	787.26
GVK	2.15	80.10	79.90	79.70	79.50	79.31	79.11	78.91	78.71	78.52	78.32	78.12	77.93	948.14
Kondapalli (Gas)	2.20	120.58	120.19	119.80	119.41	119.02	118.63	118.25	117.86	117.48	117.10	116.72	116.34	1421.36
DSTPP-1	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	473.11	427.30	473.11	1373.52

### ANNEXURE -F<sub>3</sub>

#### STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2013-14

##### Energy Despatch - APERC

Station Name	Var. Cost (₹ / kWh)	Energy Despatch (MU)												
		Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
RTS B	2.30	34.76	35.95	34.76	35.95	35.95	17.41	35.95	34.76	35.95	35.95	32.49	35.95	405.80
APGPCL I - Allocated capacity	2.33	5.53	5.72	3.61	5.72	10.42	5.53	5.72	5.53	5.72	5.72	5.35	5.72	70.27
NTPC (SR) Stage III	2.38	117.00	121.00	117.00	121.00	121.00	117.00	121.00	117.00	121.00	121.00	109.00	121.00	1424.00
VTPS I	2.49	248.20	256.60	248.20	128.30	219.36	252.40	128.30	220.64	256.60	256.60	231.78	256.60	2703.55
VTPS II	2.49	248.20	256.60	186.19	256.60	194.53	248.20	256.60	248.20	256.60	256.60	231.78	256.60	2896.66
VTPS III	2.49	248.20	256.60	186.19	256.60	256.60	248.20	194.53	248.20	256.60	256.60	231.78	256.60	2896.66
Srivathsa	2.51	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	43.40
Kakatiya Thermal Power Plant Stage I	2.57	299.70	309.88	299.70	309.88	309.88	299.70	159.84	299.70	309.88	309.88	279.72	309.88	3497.61
KTPS Stage VI	2.61	299.70	309.88	299.70	309.88	159.84	299.70	309.88	299.70	309.88	309.88	279.72	309.88	3497.61
Bundled power under JVNSM	2.62	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	307.91
VTPS IV	2.71	299.70	309.88	299.70	309.88	309.88	149.85	309.88	299.70	309.88	309.88	279.72	309.88	3497.80
Vallur Thermal Power Plant	2.75	82.90	85.66	82.90	66.49	85.66	82.90	85.66	64.91	85.66	128.50	116.06	128.50	1095.80
RTPP I	3.23	247.52	255.89	247.52	255.89	255.95	185.68	127.95	247.52	255.89	255.89	231.14	255.89	2822.73
RTPP Stage-II	3.23	247.52	255.89	247.52	194.01	194.04	247.52	255.89	247.52	255.89	255.89	231.14	255.89	2888.73
RTPP Stage-III	3.23	123.76	127.95	123.76	66.07	127.97	123.76	127.95	123.76	127.95	127.95	115.57	127.95	1444.38
RLNG based IPP's	8.97	674.82	675.57	675.20	405.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2431.21
<b>TOTAL Despatch (MU) :</b>		<b>6739.47</b>	<b>6796.35</b>	<b>6520.14</b>	<b>6364.82</b>	<b>6597.50</b>	<b>6845.04</b>	<b>6519.77</b>	<b>6137.89</b>	<b>6485.19</b>	<b>7113.71</b>	<b>6559.15</b>	<b>7160.75</b>	<b>79839.77</b>

<b>Monthly Requirement (MU) :</b>		7072.20	6916.14	6866.14	7175.61	7702.52	7444.23	7906.69	7463.41	7447.53	7506.14	7658.17	8775.64	89934.43
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Market Purchase (MU)	6.00	332.74	119.80	346.00	810.79	1105.02	599.19	1386.92	1325.53	962.34	392.43	1099.02	1614.89	10094.66
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<b>Monthly Availability (MU)</b>		<b>6739.47</b>	<b>6796.35</b>	<b>6520.14</b>	<b>6364.82</b>	<b>6597.50</b>	<b>6845.04</b>	<b>6519.77</b>	<b>6137.89</b>	<b>6485.19</b>	<b>7113.71</b>	<b>6559.15</b>	<b>7160.75</b>	<b>79839.77</b>
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# ANNEXURE - G

## Calculation of Power Purchase Requirement for FY 2013-14 Power Purchase (in MU) with Voltage Wise Sales (in MU) and Voltage Wise Loss(%)

LOSSES AT DIFF.VOLTAGES(%)			FY 2013-14		Input after grossing up with losses at each level			
DISCOM	Voltage	% Loss	Voltage	Sales	LT	11kV	33kV	132kV
CPDCL	L.T.	8.00	L.T.	19497.72	21193.17	22308.6	23235.708	24208.91
CGS Share	11kV	5.00	11kV	4340.99		4569.47	4759.36	4958.70
46.06%	33kV	3.99	33kV	6078.26			6330.86	6596.02
CGS (MU)	132kV	4.02	132kV	4218.52				4395.21
7390.12	PGCIL	4.60	TOTAL	34135.49	21193.17	26878.07	34325.93	40158.84
% Loss up to said voltage :						11.31%	12.84%	15.00%
						D. Loss:	4408.96	
						T. Loss	1614.39	
						PGC Loss	339.95	40498.79
Loss(MU) & % Loss incl.PGCIL :						TOTAL	6363.29	15.71%

DISCOM	Voltage	% Loss	Voltage	Sales	LT	11kV	33kV	132kV
EPDCL	L.T.	5.01	L.T.	7146.69	7523.62	7855.11	8130.74	8471.29
CGS Share	11kV	4.22	11kV	1992.87		2080.68	2153.69	2243.89
15.80%	33kV	3.39	33kV	1328.47			1375.08	1432.68
CGS (MU)	132kV	4.02	132kV	2760.12				2875.73
2535.04	PGCIL	4.60	TOTAL	13228.15	7523.62	9935.78	11659.51	15023.58
% Loss up to said voltage :						8.01%	10.22%	11.95%
						D. Loss:	1191.48	
						T. Loss	603.95	
						PGC Loss	116.61	15140.19
Loss(MU) & % Loss incl.PGCIL :						TOTAL	1912.04	12.63%

DISCOM	Voltage	% Loss	Voltage	Sales	LT	11kV	33kV	132kV
NPDCL	L.T.	7.00	L.T.	7709.37	8289.64	8657.59	9018.32	9396.04
CGS Share	11kV	4.25	11kV	1265.68		1321.86	1376.94	1434.61
15.87%	33kV	4.00	33kV	220.34			229.52	239.13
CGS (MU)	132kV	4.02	132kV	1409.89				1468.94
2546.27	PGCIL	4.60	TOTAL	10605.28	8289.64	9979.45	10624.78	12538.73
% Loss up to said voltage :						10.06%	13.45%	15.42%
						D. Loss:	1429.39	
						T. Loss	504.06	
						PGC Loss	117.13	12655.85
Loss(MU) & % Loss incl.PGCIL :						TOTAL	2050.58	16.20%

DISCOM	Voltage	% Loss	Voltage	Sales	LT	11kV	33kV	132kV
SPDCL	L.T.	6.00	L.T.	12099.36	12871.66	13442.99	14003.113	14589.615
CGS Share	11kV	4.25	11kV	1751.71		1829.46	1905.69	1985.51
22.27%	33kV	4.00	33kV	2656.15			2766.82	2882.71
CGS (MU)	132kV	4.02	132kV	1936.30				2017.40
3573.12	PGCIL	4.60	TOTAL	18443.52	12871.66	15272.45	18675.63	21475.23
% Loss up to said voltage :						9.31%	11.61%	14.12%
						D. Loss:	2168.40	
						T. Loss	863.30	
						PGC Loss	164.36	21639.60
Loss(MU) & % Loss incl.PGCIL :						TOTAL	3196.07	14.77%

DISCOM	Voltage	% Loss	Voltage	Sales	LT	11kV	33kV	132kV
All Discoms	L.T.	6.87	L.T.	46453.14	49878.10	52264.29	54387.88	56665.85
CGS Share	11kV	4.57	11kV	9351.26		9801.47	10195.68	10622.71
100.00%	33kV	3.90	33kV	10283.21			10702.28	11150.54
CGS (MU)	132kV	4.02	132kV	10324.84				10757.28
16044.54	PGCIL	4.60	TOTAL	76412.45	49878.10	62065.75	75285.85	89196.38
% Loss up to said voltage :						10.09%	12.22%	14.33%
						D. Loss:	9198.24	
						T. Loss	3585.69	
						PGC Loss	738.05	89934.43
Loss(MU) & % Loss incl.PGCIL :						TOTAL	13521.98	15.04%
						PP MU as Filed :		103535.36
						PP MU after Loss adjustment :		89934.43
						Differential MU :		13600.93

## ANNEXURE - H

### APGENCO STATION WISE FIXED COSTS FOR FY 2013-14

Sl. No	Generating Station	Plant Capacity (MW)	Availability and Dispatch (MU)		Cost elements (₹ Crs.)				Total (₹ Crs.)
			Net Availability	Dispatch	Fixed	Incentive	Income Tax	Others	
	<b>APGENCO</b>								
	THERMAL POWER								
1	VTPS I	420.00	2703.55	2703.55	160.55	8.39	8.33	0.00	177.27
2	VTPS II	420.00	2896.66	2896.66	160.55	8.39	8.33	0.00	177.27
3	VTPS III	420.00	2896.66	2896.66	160.55	8.39	8.33	0.00	177.27
4	VTPS IV	500.00	3497.80	3497.80	503.43	10.13	10.05	0.00	523.61
5	RTPP I	420.00	2822.73	2822.73	221.74	8.37	8.30	0.00	238.41
6	RTPP Stage-II	420.00	2888.73	2888.73	407.57	8.37	8.30	0.00	424.24
7	RTPP Stage-III	210.00	1444.38	1444.38	309.14	4.19	4.15	0.00	317.48
8	KTPS A	240.00	1528.40	1528.40	121.08	6.17	4.71	0.00	131.96
9	KTPS B	240.00	1515.91	1515.91	121.08	6.17	4.71	0.00	131.96
10	KTPS C	240.00	1549.07	1549.07	121.08	6.17	4.71	0.00	131.96
11	KTPS D	500.00	3439.80	3439.80	218.97	9.96	9.89	0.00	238.82
12	KTPS Stage VI	500.00	3497.61	3497.61	571.71	10.13	10.05	0.00	591.89
13	RTS B	62.50	405.80	405.80	52.75	1.62	1.24	0.00	55.60
14	Kakatiya Thermal Power Plant Stage I	500.00	3497.61	3497.61	662.03	10.13	10.05	0.00	682.21
15	Kakatiya Thermal Power Plant Stage II	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	DSTPP-1	800.00	1373.52	1373.52	302.49	0.00	13.54	0.00	316.03
	<b>TOTAL THERMAL</b>	<b>6492.50</b>	<b>35958.21</b>	<b>35958.21</b>	<b>4094.71</b>	<b>106.59</b>	<b>114.67</b>	<b>0.00</b>	<b>4315.97</b>
	<b>HYDEL</b>								
17	MACHKUND PH AP Share	84.00	337.98	337.98	15.16	0.00	0.82	0.00	15.98
18	TUNGBHADRA PH AP Share	57.60	143.35	143.35	10.40	0.00	0.35	0.00	10.74
19	USL	240.00	443.96	443.96	44.53	0.00	1.07	0.00	45.61
20	LSR	460.00	1083.83	1083.83	85.36	0.00	2.62	0.00	87.98
21	DONKARAYI (*Small Hydel)	25.00	97.17	97.17	4.64	0.00	0.23	0.00	4.87
22	SSLM Right Bank	770.00	1359.63	1359.63	156.43	0.00	3.29	0.00	159.72
23	NSPH	815.60	1218.33	1218.33	134.85	0.00	2.94	0.00	137.79
24	NSRCPH	90.00	150.19	150.19	14.88	0.00	0.36	0.00	15.24
25	NSLCPH	60.00	68.43	68.43	9.92	0.00	0.17	0.00	10.09
26	POCHAMPAD PH (*Small Hydel)	27.00	74.05	74.05	17.63	0.00	0.18	0.00	17.81
27	NIZAMSAGAR PH (*Small Hydel)	10.00	12.08	12.08	4.69	0.00	0.03	0.00	4.72
28	PABM (*Small Hydel)	20.00	6.94	6.94	9.38	0.00	0.02	0.00	9.39
29	MINI HYDRO&OTHERS	14.16	11.56	11.56	5.70	0.00	0.03	0.00	5.73
30	SINGUR (*Small Hydel)	15.00	8.20	8.20	8.51	0.00	0.02	0.00	8.53
31	SSLM LCPH	900.00	1642.65	1642.65	502.22	0.00	3.97	0.00	506.19
32	Priyadarshini Jurala Hydro Electric Project- AP Share	234.00	285.12	285.12	123.78	0.00	0.69	0.00	124.47
33	Lower Jurala Hydro Electric Project		113.14	113.14	66.09		0.55	0.00	66.64
34	Pochampadu-IV (New project)	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>TOTAL HYDRO</b>	<b>3831.36</b>	<b>7056.61</b>	<b>7056.61</b>	<b>1214.16</b>	<b>0.00</b>	<b>17.33</b>	<b>0.00</b>	<b>1231.49</b>
	<b>TOTAL APGENCO</b>	<b>10323.86</b>	<b>43014.82</b>	<b>43014.82</b>	<b>5308.87</b>	<b>106.59</b>	<b>132.00</b>	<b>0.00</b>	<b>5547.46</b>

## ANNEXURE - I<sub>1</sub>

### ALL DISCOMS : POWER PURCHASE COSTS FOR FY 2013-14

As filed in ARR

Generating Station	Power Purchase (MU)	Fixed Costs (₹ Crs.)	Variable Costs (₹ Crs)	Other Costs (₹ Crs)	Total Power Purchase Costs (₹ Crs)	Average cost (₹/kWh)
APGenco - Thermal	42342.00	4911.00	11020.00	221.00	16152.00	3.81
APGenco - Hydel	3754.00	1280.00	-	17.00	1298.00	3.46
CGS	24111.00	2233.00	4429.00	-	6662.00	2.76
Bundled Power JNNM	308.00	-	80.70	-	80.70	2.62
NCE	3473.00	-	1543.00	-	1543.00	4.44
IPPs	5270.00	514.00	1172.00	24.00	1710.00	3.24
APGPCL	288.00	18.00	56.00	-	74.00	2.57
*Others (LVS & Srivastha)	43.00	43.00	11.00	9.00	63.00	2.67
Medium Term	3052.00	-	1149.00	-	1149.00	3.76
Short term Purchases	13753.00	-	7028.00	-	7028.00	5.11
Hinduja	1133.00	172.00	198.00	-	371.00	3.27
RLNG	6008.00	619.00	5389.00	-	6008.00	10.00
Total	103535.00	9790.00	32075.70	271.00	42138.70	4.07

### ALL DISCOMS : POWER PURCHASE COSTS FOR FY 2013-14

As approved by APERC

Generating Station	Power Purchase (MU)	Fixed Cost (₹ Crs)	Variable Cost (₹ Crs)	Incentive (₹ Crs)	Income Tax (₹ Crs)	Others (₹ Crs)	Total (₹ Crs)	Avg. Cost (₹ / kWh)
<b>APGENCO Total</b>	<b>43014.82</b>	<b>5308.87</b>	<b>9017.29</b>	<b>106.59</b>	<b>132.00</b>	<b>0.00</b>	<b>14564.75</b>	3.39
THERMAL	35958.21	4094.71	9017.29	106.59	114.67	0.00	13333.26	3.71
HYDRO	7056.61	1214.16	0.00	0.00	17.33	0.00	1231.49	1.75
<b>TOTAL CGS</b>	<b>26739.54</b>	<b>2233.45</b>	<b>5302.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7535.52</b>	<b>2.82</b>
NTPC- (SR)	6789.12	413.00	1245.39	0.00	0.00	0.00	1658.39	2.44
NTPC - (ER)	3262.16	228.00	430.61	0.00	0.00	0.00	658.61	2.02
NTPC- Simhadri	10695.00	1253.00	2081.10	0.00	0.00	0.00	3334.10	3.12
NLC	2005.30	126.45	399.30	0.00	0.00	0.00	525.75	2.62
NPC	2102.28	0.00	604.39	0.00	0.00	0.00	604.39	2.87
New-CGS	1885.69	213.00	541.29	0.00	0.00	0.00	754.29	4.00
APGPCL	278.70	18.21	59.52	0.00	0.00	0.00	77.73	2.79
IPPS	3858.87	410.48	830.77	0.00	0.00	0.00	1241.26	3.22
NCE	3473.23	0.00	1543.34	0.00	0.00	0.00	1543.34	4.44
OTHERS	2474.61	293.49	2191.69	0.00	0.00	0.00	2485.18	10.04
MARKET	10094.66	0.00	6056.79	0.00	0.00	0.00	6056.79	6.00
<b>Total</b>	<b>89934.43</b>	<b>8264.50</b>	<b>25001.48</b>	<b>106.59</b>	<b>132.00</b>	<b>0.00</b>	<b>33504.57</b>	3.73
Purchase of REC	813.49		122.02				122.02	1.50
<b>Grand Total</b>	<b>89934.43</b>	<b>8264.50</b>	<b>25123.51</b>	<b>106.59</b>	<b>132.00</b>	<b>0.00</b>	<b>33626.59</b>	<b>3.74</b>

## ANNEXURE - I<sub>2</sub>

### CPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As filed by DISCOM

Generating Station	Power Purchase (MU)	Fixed Costs (₹ Crs)	Variable Costs (₹ Crs)	Other Costs (₹ Crs)	Total Power Purchase Costs (₹ Crs)	Average cost (₹/kWh)
APGenco - Thermal	19290.85	2237.37	5020.74	100.80	7358.91	3.81
APGenco - Hydel	1729.08	589.68	-	7.98	597.66	3.46
CGS	11106.07	1028.73	2039.97	-	3068.70	2.76
Bundled Power JNNM	165.66	-	43.40	-	43.40	2.62
NCE	1292.73	-	606.75	-	606.75	4.69
IPPs	2427.45	236.79	539.64	10.97	787.40	3.24
APGPCL	132.45	8.39	25.94	-	34.33	2.59
Others (LVS & Srivastha)	-	-	-	-	-	-
Medium Term	1405.68	-	529.20	-	529.20	3.76
Short term Purchases	6334.76	-	3237.06	-	3237.06	5.11
Hinduja	521.84	79.38	91.33	-	170.71	3.27
RLNG	1443.34	148.66	1294.67	-	1443.33	10.00
Pool Purchases	494.30	-	252.59	-	252.59	5.11
Pool Sales	-395.7	-	-202.2	-	-202.2	5.11
Total	45948.51	4329	13479.093	119.75	17927.84	3.90

### CPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As approved by APERC

Generating Station	Power Purchase (MU)	Fixed Cost (₹ Crs)	Variable Cost (₹ Crs)	Incentive (₹ Crs)	Income Tax (₹ Crs)	Others (₹ Crs)	Total (₹ Crs)	Avg. Cost (₹ /kWh)
<b>APGENCO Total</b>	<b>19,813</b>	<b>2,445.27</b>	<b>4,153.37</b>	<b>49.09</b>	<b>60.80</b>	-	<b>6,708.52</b>	3.39
THERMAL	16,562	1,886.02	4,153.37	49.09	52.82	-	6,141.30	3.71
HYDRO	3,250.27	559.24	-	-	7.98	-	567.22	1.75
<b>TOTAL CGS</b>	<b>12,316.23</b>	<b>1,028.73</b>	<b>2,442.14</b>	-	-	-	<b>3,470.86</b>	2.82
NTPC- (SR)	3,127.07	190.23	573.63	-	-	-	763.85	2.44
NTPC - (ER)	1,502.55	105.02	198.34	-	-	-	303.35	2.02
NTPC- Simhadri	4,926.12	577.13	958.56	-	-	-	1,535.69	3.12
NLC	923.64	58.24	183.92	-	-	-	242.16	2.62
NPC	968.31	-	278.38	-	-	-	278.38	2.87
New-CGS	868.55	98.11	249.32	0.00	0.00	0.00	347.43	4.00
APGPCL	128.37	8.39	27.41	-	-	-	35.80	2.79
IPPS	1,777.40	189.07	382.65	-	-	-	571.72	3.22
NCE	1,292.73	-	606.75	-	-	-	606.75	4.69
OTHERS	1,119.81	115.34	1,004.47	-	-	-	1,119.81	10.00
MARKET	4,649.60	-	2,789.76	-	-	-	2,789.76	6.00
<b>Total</b>	<b>41096.76</b>	<b>3786.79</b>	<b>11406.55</b>	<b>49.09</b>	<b>60.80</b>	<b>0.00</b>	<b>15303.23</b>	3.72
D-to-D (Pool) Sales	597.98	0	269.09	0	0	0.00	269.09	4.50
Purchase of REC	(635.49)	0	-95.32	0	0	0.00	-95.32	1.50
<b>Grand Total</b>	<b>40498.79</b>	<b>3786.79</b>	<b>11232.79</b>	<b>49.09</b>	<b>60.80</b>	<b>0.00</b>	<b>15129.47</b>	3.74



### ANNEXURE - I<sub>3</sub>

#### EPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As filed by DISCOM

Generating Station	Power Purchase (MU)	Fixed Costs (₹ Crs)	Variable Costs (₹ Crs)	Other Costs (₹ Crs)	Total Power Purchase Costs (₹ Crs)	Average cost (₹/kWh)
APGenco - Thermal	6120.86	709.90	1593.05	31.99	2334.94	3.81
APGenco - Hydel	593.13	202.28	-	2.74	205.02	3.46
CGS	3809.55	352.89	699.78	-	1052.67	2.76
Bundled Power JNNM	71.13	-	18.62	-	18.62	2.62
NCE	425.43	-	188.54	-	188.54	4.43
IPPs	832.69	81.23	185.11	3.76	270.1	3.24
APGPCL	45.43	2.88	8.9	-	11.78	2.59
Others (LVS & Srivastha)	43.4	43.70	10.89	9.00	63.59	14.65
Medium Term	482.19	-	181.53	-	181.53	3.76
Short term Purchases	2173.02	-	1110.41	-	1110.41	5.11
Hinduja	179.01	27.23	31.33	-	58.56	3.27
RLNG	2222.56	228.92	1993.64	-	2222.56	10.00
Pool Purchases	481.69	-	246.14	-	246.14	5.11
Pool Sales	-382.95	-	-195.69	-	-195.69	5.11
Total	17097.14	1649.03	6072.25	47.49	7768	4.54

#### EPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As approved by APERC

Generating Station	Power Purchase (MU)	Fixed Cost (₹ Crs)	Variable Cost (₹ Crs)	Incentive (₹ Crs)	Income Tax (₹ Crs)	Others (₹ Crs)	Total (₹ Crs)	Avg. Cost (₹ /kWh)
<b>APGENCO Total</b>	<b>6,796.34</b>	<b>838.80</b>	<b>1,424.73</b>	<b>16.84</b>	<b>20.86</b>	-	<b>2,301.23</b>	3.39
THERMAL	5,681.40	646.96	1,424.73	16.84	18.12	-	2,106.66	3.71
HYDRO	1,114.94	191.84	-	-	2.74	-	194.58	1.75
<b>TOTAL CGS</b>	<b>4,224.85</b>	<b>352.89</b>	<b>837.73</b>	-	-	-	<b>1,190.61</b>	2.82
NTPC- (SR)	1,072.68	65.25	196.77	-	-	-	262.03	2.44
NTPC - (ER)	515.42	36.02	68.04	-	-	-	104.06	2.02
NTPC- Simhadri	1,689.81	197.97	328.81	-	-	-	526.79	3.12
NLC	316.84	19.98	63.09	-	-	-	83.07	2.62
NPC	332.16	-	95.49	-	-	-	95.49	2.87
New-CGS	297.94	33.65	85.52	0.00	0.00	0.00	119.18	4.00
APGPCL	44.03	2.88	9.40	-	-	-	12.28	2.79
IPPS	609.70	64.86	131.26	-	-	-	196.12	3.22
NCE	425.43	-	188.54	-	-	-	188.54	4.43
OTHERS	427.53	82.64	355.46	-	-	-	438.10	10.25
MARKET	1,594.96	-	956.97	-	-	-	956.97	6.00
<b>Total</b>	<b>14122.84</b>	<b>1342.06</b>	<b>3904.10</b>	<b>16.84</b>	<b>20.86</b>	<b>0.00</b>	<b>5283.86</b>	3.74
D-to-D (Pool) Purchase	(1,017.35)	0	-457.81	0	0	0.00	-457.81	4.50
Purchase of REC	(298.40)	0	-44.76	0	0	0.00	-44.76	1.50
<b>Grand Total</b>	<b>15438.59</b>	<b>1342.06</b>	<b>4406.67</b>	<b>16.84</b>	<b>20.86</b>	<b>0.00</b>	<b>5786.43</b>	3.75

# ANNEXURE - I<sub>A</sub>

## NPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As filed by DISCOM

Generating Station	Power Purchase (MU)	Fixed Costs (₹ Cr)	Variable Costs (₹ Crs)	Other Costs (₹ Crs)	Total Power Purchase Costs (₹ Crs)	Average cost (₹/kWh)
APGenco - Thermal	7303.10	847.02	1900.74	38.16	2785.92	3.81
APGenco - Hydel	595.75	203.18	-	2.75	205.93	3.46
CGS	3826.43	354.45	702.88	-	1057.33	2.76
Bundled Power JNNM	71.13	-	18.62	-	18.62	2.62
NCE	469.41	-	208.67	-	208.67	4.45
IPPs	836.38	81.59	185.93	3.78	271.30	3.24
APGPCL	45.64	2.89	8.94	-	11.83	2.59
Others (LVS & Srivastha)	-	-	-	-	-	-
Medium Term	484.33	-	182.34	-	182.34	3.76
Short term Purchases	2182.64	-	1115.33	-	1115.33	5.11
Hinduja	179.80	27.35	31.47	-	58.82	3.27
RLNG	-	-	-	-	-	-
Pool Purchases	380.30	-	194.34	-	194.34	5.11
Pool Sales	-822.14	-	-420.11	-	-420.11	5.11
Total	15552.77	1516.48	4129.15	44.69	5690.32	3.66

## NPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As approved by APERC

Generating Station	Power Purchase (MU)	Fixed Cost (₹ Crs)	Variable Cost (₹ Crs)	Incentive (₹ Crs)	Income Tax (₹ Crs)	Others (₹ Crs)	Total (₹ Cr)	Avg. Cost (₹ /kWh)
<b>APGENCO Total</b>	<b>6,826.45</b>	<b>842.52</b>	<b>1,431.04</b>	<b>16.92</b>	<b>20.95</b>	-	<b>2,311.43</b>	3.39
THERMAL	5,706.57	649.83	1,431.04	16.92	18.20	-	2,115.99	3.71
HYDRO	1,119.88	192.69	-	-	2.75	-	195.44	1.75
<b>TOTAL CGS</b>	<b>4,243.57</b>	<b>354.45</b>	<b>841.44</b>	-	-	-	<b>1,195.89</b>	2.82
NTPC- (SR)	1,077.43	65.54	197.64	-	-	-	263.19	2.44
NTPC - (ER)	517.70	36.18	68.34	-	-	-	104.52	2.02
NTPC- Simhadri	1,697.30	198.85	330.27	-	-	-	529.12	3.12
NLC	318.24	20.07	63.37	-	-	-	83.44	2.62
NPC	333.63	-	95.92	-	-	-	95.92	2.87
New-CGS	299.26	33.80	85.90	0.00	0.00	0.00	119.71	4.00
APGPCL	44.23	2.89	9.45	-	-	-	12.34	2.79
IPPS	612.40	65.14	131.84	-	-	-	196.99	3.22
NCE	469.41	-	208.67	-	-	-	208.67	4.45
OTHERS	385.83	39.74	346.09	-	-	-	385.83	10.00
MARKET	1,602.02	-	961.21	-	-	-	961.21	6.00
<b>Total</b>	<b>14183.91</b>	<b>1304.74</b>	<b>3929.75</b>	<b>16.92</b>	<b>20.95</b>	<b>0.00</b>	<b>5272.35</b>	3.72
D-to-D (Pool) Sales	1,528.06	0	687.63	0	0	0.00	687.63	4.50
Purchase of REC	(130.06)	0	-19.51	0	0	0.00	-19.51	1.50
<b>Grand Total</b>	<b>12785.91</b>	<b>1304.74</b>	<b>3261.63</b>	<b>16.92</b>	<b>20.95</b>	<b>0.00</b>	<b>4604.24</b>	3.60

## ANNEXURE - I<sub>5</sub>

### SPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As filed by DISCOM

Generating Station	Power Purchase (MU)	Fixed Costs (₹ Crs)	Variable Costs (₹ Crs)	Other Costs (₹ Crs)	Total Power Purchase Costs (₹ Crs)	Average cost (₹ /kWh)
APGenco - Thermal	9627.15	1116.57	2505.61	50.30	3672.48	3.81
APGenco - Hydel	836.01	285.11	-	3.86	288.97	3.46
CGS	5369.54	497.39	986.33	-	1483.72	2.76
Bundled Power JNNISM	-	-	-	-	-	-
NCE	1285.67	-	539.38	-	539.38	4.20
IPPs	1173.67	114.49	260.92	5.30	380.71	3.24
APGPCL	64.04	4.06	12.54	-	16.60	2.59
Others (LVS & Srivastha)	-	-	-	-	-	-
Medium Term	679.65	-	255.87	-	255.87	3.76
Short term Purchases	3062.85	-	1565.12	-	1565.12	5.11
Hinduja	252.31	38.38	44.16	-	82.54	3.27
RLNG	2342.07	241.23	2100.83	-	2342.06	10.00
Pool Purchases	471.89	-	241.13	-	241.13	5.11
Pool Sales	-227.41	-	-116.20	-	-116.20	5.11
Total	24937.44	2297.23	8395.69	59.46	10752.38	4.31

### SPDCL : POWER PURCHASE COSTS FOR FY 2013-14

As approved by APERC

Generating Station	Power Purchase (MU)	Fixed Cost (₹ Crs)	Variable Cost (₹ Crs)	Incentive (₹ Crs)	Income Tax (₹ Crs)	Others (₹ Crs)	Total (₹ Crs)	Avg. Cost (₹ / kWh)
<b>APGENCO Total</b>	<b>9579.40</b>	<b>1182.29</b>	<b>2008.15</b>	<b>23.74</b>	<b>29.40</b>	<b>0.00</b>	<b>3243.57</b>	3.39
THERMAL	8007.89	911.89	2008.15	23.74	25.54	0.00	2969.32	3.71
HYDRO	1571.51	270.39	0.00	0.00	3.86	0.00	274.25	1.75
<b>TOTAL CGS</b>	<b>5954.90</b>	<b>497.39</b>	<b>1180.77</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1678.16</b>	2.82
NTPC- (SR)	1511.94	91.98	277.35	0.00	0.00	0.00	369.32	2.44
NTPC - (ER)	726.48	50.78	95.90	0.00	0.00	0.00	146.67	2.02
NTPC- Simhadri	2381.78	279.04	463.46	0.00	0.00	0.00	742.50	3.12
NLC	446.58	28.16	88.92	0.00	0.00	0.00	117.08	2.62
NPC	468.18	0.00	134.60	0.00	0.00	0.00	134.60	2.87
New-CGS	419.94	47.44	120.55	0.00	0.00	0.00	167.98	4.00
APGPCL	62.07	4.06	13.25	0.00	0.00	0.00	17.31	2.79
IPPS	859.37	91.41	185.01	0.00	0.00	0.00	276.43	3.22
NCE	1285.67	0.00	539.38	0.00	0.00	0.00	539.38	4.20
OTHERS	541.43	55.77	485.66	0.00	0.00	0.00	541.43	10.00
MARKET	2248.08	0.00	1348.85	0.00	0.00	0.00	1348.85	6.00
<b>Total</b>	<b>20530.91</b>	<b>1830.91</b>	<b>5761.08</b>	<b>23.74</b>	<b>29.40</b>	<b>0.00</b>	<b>7645.12</b>	3.72
D-to-D (Pool) Purchase	(1,108.68)	0	-498.91	0	0	<b>0.00</b>	-498.91	4.50
Sale of REC	250.46	0	37.57	0	0	<b>0.00</b>	37.57	1.50
<b>Grand Total</b>	<b>21389.14</b>	<b>1830.91</b>	<b>6222.42</b>	<b>23.74</b>	<b>29.40</b>	<b>0.00</b>	<b>8106.46</b>	3.79

**ANNEXURE - I<sub>6</sub>**  
**MONTHLY AND QUARTERLY WEIGHTED AVERAGE VARIABLE**  
**COST FOR FY 2013-14**  
**(To be used for Computation of FSA)**

Month / Quarter	Purchase /Requirement as EHT input (MU)	Total despatchfor DISCOMs Sales only (MU)	Total Variable Cost (₹ Crs)	Variable Cost (₹ Per kWh)
Apr-13	7072.20	7072.20	2152.04	3.0430
May-13	6916.14	6916.14	2063.93	2.9842
Jun-13	6866.14	6866.14	2196.31	3.1988
<b>QRT 1</b>	<b>20854.48</b>	<b>20854.48</b>	<b>6412.28</b>	<b>3.0748</b>
Jul-13	7175.61	7175.61	2187.78	3.0489
Aug-13	7702.52	7702.52	1986.79	2.5794
Sep-13	7444.23	7444.23	1683.42	2.2614
<b>QRT 2</b>	<b>22322.36</b>	<b>22322.36</b>	<b>5857.99</b>	<b>2.6243</b>
Oct-13	7906.69	7906.69	2133.12	2.6979
Nov-13	7463.41	7463.41	2135.81	2.8617
Dec-13	7447.53	7447.53	2019.64	2.7118
<b>QRT 3</b>	<b>22817.64</b>	<b>22817.64</b>	<b>6288.57</b>	<b>2.7560</b>
Jan-14	7506.14	7506.14	1806.09	2.4062
Feb-14	7658.17	7658.17	2096.97	2.7382
Mar-14	8775.64	8775.64	2539.58	2.8939
<b>QRT 4</b>	<b>23939.95</b>	<b>23939.95</b>	<b>6442.64</b>	<b>2.6912</b>
<b>Total</b>	<b>89934.43</b>	<b>89934.43</b>	<b>25001.48</b>	<b>2.7800</b>

**ANNEXURE - J<sub>1</sub>**

**ALL DISCOMS - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14**

**SALES FORECAST - ALL DISCOMS 2013-14**

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>LT Category</b>	<b>3973.73</b>	<b>3866.27</b>	<b>3392.52</b>	<b>3697.44</b>	<b>3960.06</b>	<b>3717.87</b>	<b>4063.31</b>	<b>3724.05</b>	<b>3732.05</b>	<b>3809.37</b>	<b>3779.99</b>	<b>4736.49</b>	<b>46453.14</b>
Category I Domestic	1612.43	1678.18	1582.12	1553.64	1556.65	1566.18	1528.03	1454.57	1333.84	1217.46	1233.86	1680.72	17,997.67
Category II - Non-domestic/Commercial	439.02	461.88	410.97	398.50	414.86	405.98	390.29	379.93	340.22	336.68	352.69	428.62	4,759.64
Category III (A & B) - Industrial	221.98	238.58	266.70	248.13	258.81	245.06	239.34	264.50	259.63	302.90	286.50	299.86	3,132.00
Category IV - Cottage Industries & Dhobighats	4.73	4.97	4.50	4.42	4.83	4.53	5.34	5.30	5.59	4.94	4.89	4.26	58.29
Category VA,A(i) & A(ii) - Irrigation and Agriculture	1511.73	1302.82	954.10	1313.51	1539.65	1297.54	1702.19	1424.03	1591.70	1749.20	1710.66	2124.55	18,221.67
Category V (B) - Agriculture (Tatkal)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Category VI - Local Bodies, St. Lighting & PWS	166.30	162.57	157.06	162.55	166.40	180.03	181.57	176.74	183.97	182.79	173.95	177.95	2,071.87
Category VII (A & B) - General Purpose	17.22	16.02	16.81	16.54	18.67	18.21	16.37	18.80	16.83	15.19	17.03	20.34	208.04
Category VIII-Temporary Supply	0.31	1.24	0.26	0.17	0.18	0.34	0.17	0.18	0.27	0.22	0.40	0.19	3.95
<b>HT Category at 11 KV</b>	<b>722.60</b>	<b>654.58</b>	<b>785.28</b>	<b>733.01</b>	<b>790.96</b>	<b>839.06</b>	<b>803.20</b>	<b>765.82</b>	<b>765.38</b>	<b>789.87</b>	<b>876.31</b>	<b>825.19</b>	<b>9351.26</b>
HT-I Industry Segregated	317.44	337.09	455.61	427.69	448.95	472.60	456.86	479.90	490.06	492.08	511.38	471.58	5,361.24
Lights & Fans	2.99	3.23	4.13	4.03	3.85	4.32	4.10	3.43	3.85	3.71	3.74	3.34	44.73
Colony consumption	0.37	0.32	0.35	0.34	0.38	0.22	0.21	0.22	0.28	0.21	0.39	0.29	3.59
Seasonal Industries	2.89	1.40	1.54	1.86	1.23	0.90	0.99	2.07	2.95	3.25	2.78	2.07	23.93
HT-I (B) Ferro-Alloys	1.38	1.54	2.12	2.01	1.83	1.01	0.87	1.03	1.49	1.65	1.82	1.79	18.54
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-I Industrial Time-of-Day Tariff (6 PM to 9 PM)	12.16	10.84	11.33	10.35	11.99	12.14	10.89	9.71	10.17	10.06	10.56	9.69	129.89
HT-I Industrial Time of Day Incentive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-II Industrial Non-Segregated	187.91	191.08	188.48	172.98	181.69	179.92	172.52	166.78	152.01	140.49	159.68	157.76	2,051.32
HT-IV A Govt. Lift Irrigation Schemes	32.03	3.62	2.84	3.12	32.34	34.17	34.58	7.54	7.49	8.11	35.58	33.14	234.56
HT-IV B Agriculture	0.33	0.34	0.32	0.36	0.41	0.41	0.38	0.82	0.78	0.87	0.72	0.15	5.89
Composite Public Water Supply Schemes	4.86	5.54	5.45	5.68	6.47	5.54	5.71	6.40	5.67	6.30	6.50	5.42	69.55
HT-VI Townships and Residential Colonies	16.47	14.59	15.59	14.54	15.42	15.64	17.33	14.22	13.49	14.47	14.93	14.51	181.20
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
RESCOs	142.92	84.21	96.32	88.94	85.23	111.09	97.60	72.56	76.08	107.55	127.19	124.45	1,214.14
Temporary Supply	0.84	0.76	1.22	1.10	1.17	1.10	1.14	1.15	1.05	1.11	1.03	0.99	12.66
													-
<b>HT Category at 33 KV</b>	<b>616.67</b>	<b>650.36</b>	<b>855.25</b>	<b>821.02</b>	<b>894.59</b>	<b>883.89</b>	<b>956.30</b>	<b>940.55</b>	<b>961.04</b>	<b>891.58</b>	<b>916.39</b>	<b>895.57</b>	<b>10283.21</b>
HT-I Industry Segregated	500.09	526.56	714.45	686.96	732.99	733.53	811.50	789.36	815.77	739.98	766.91	752.19	8,570.29
Lights & Fans	1.43	1.31	1.53	1.60	2.75	0.78	1.49	1.04	0.80	0.53	0.85	1.15	15.26
Colony consumption	1.04	0.90	0.98	0.92	1.04	0.94	1.17	1.11	1.17	0.86	1.12	1.10	12.33

# ANNEXURE - J<sub>1</sub>

## ALL DISCOMS - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

### SALES FORECAST - ALL DISCOMS 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
Seasonal Industries	5.88	3.60	1.94	1.48	1.00	0.60	0.52	2.97	4.53	4.69	5.30	4.76	37.26
HT-I (B) Ferro-Alloys	26.08	27.39	41.92	39.11	43.74	43.75	41.57	47.19	46.21	47.06	47.14	44.42	495.56
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	16.86	16.92	22.88	21.60	26.54	22.66	21.55	20.77	21.55	22.29	23.16	21.46	258.25
HT-I Industrial Time of Day Incentive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-II Industrial Non-Segregated	57.31	60.78	59.24	56.72	61.05	55.05	52.64	53.38	47.00	48.16	51.53	50.83	653.69
HT-IV A Govt. Lift Irrigation Schemes	1.37	6.03	6.04	6.53	18.52	20.92	20.31	19.61	18.90	22.66	14.82	14.21	169.93
HT-IV B Agriculture	0.23	0.23	0.29	0.26	0.45	0.44	0.39	0.00	0.00	0.00	0.00	0.00	2.29
Composite Public Water Supply Schemes	1.72	1.52	1.59	1.66	1.96	1.70	1.82	1.80	2.00	2.09	2.03	1.73	21.63
HT-VI Townships and Residential Colonies	4.60	5.11	4.31	3.97	4.34	3.40	3.23	3.23	2.98	3.15	3.42	3.61	45.36
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
Temporary Supply	0.05	0.02	0.07	0.21	0.22	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.37
													-
<b>HT Category at 132 KV</b>	<b>651.41</b>	<b>667.53</b>	<b>810.20</b>	<b>852.65</b>	<b>903.90</b>	<b>897.17</b>	<b>903.99</b>	<b>931.67</b>	<b>882.62</b>	<b>888.27</b>	<b>947.91</b>	<b>987.52</b>	<b>10324.84</b>
HT-I Industry Segregated	393.74	383.90	496.11	545.21	576.98	566.25	571.63	606.43	541.86	520.23	599.60	656.77	6,458.71
Lights & Fans	2.66	5.44	3.89	4.21	4.67	8.70	4.39	8.33	4.59	3.04	3.75	5.62	59.29
Colony consumption	6.23	7.42	7.12	6.61	7.71	2.15	6.32	11.09	6.38	4.88	4.66	5.57	76.12
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	50.66	53.42	75.10	73.15	78.40	77.40	77.50	77.82	80.37	77.63	82.85	68.94	873.22
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	10.52	10.23	11.51	13.65	14.43	12.22	9.77	9.50	9.71	9.90	12.32	13.95	137.71
HT-I Industrial Time of Day Incentive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-II Industrial Non-Segregated	16.27	17.03	19.38	16.69	16.63	24.24	23.74	20.78	19.38	20.01	18.89	23.05	236.09
HT-IV A Govt. Lift Irrigation Schemes	11.23	33.08	32.97	36.14	38.94	38.75	48.74	50.11	69.53	91.36	64.91	71.60	587.34
HT-IV B Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Composite Public 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	0.00
HT-V Railway Traction	150.84	149.02	155.23	149.17	158.08	158.76	154.60	140.64	144.51	154.84	154.13	134.85	1804.67
HT-VI Townships and Residential Colonies	8.97	7.69	8.70	7.17	7.40	8.42	7.00	6.66	6.00	6.06	6.50	6.87	87.43
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
Temporary Supply	0.30	0.30	0.20	0.65	0.68	0.30	0.30	0.30	0.30	0.30	0.30	0.30	4.26
<b>Total</b>	<b>5964.41</b>	<b>5838.74</b>	<b>5843.26</b>	<b>6104.12</b>	<b>6549.51</b>	<b>6338.00</b>	<b>6726.80</b>	<b>6362.09</b>	<b>6341.08</b>	<b>6379.08</b>	<b>6520.60</b>	<b>7444.77</b>	<b>76412.45</b>

## ANNEXURE - J<sub>2</sub>

### APCPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

#### SALES FORECAST - APCPDCL 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>LT Category</b>	<b>1698.23</b>	<b>1657.38</b>	<b>1397.49</b>	<b>1583.10</b>	<b>1708.77</b>	<b>1592.82</b>	<b>1627.12</b>	<b>1561.86</b>	<b>1545.31</b>	<b>1567.07</b>	<b>1568.21</b>	<b>1990.37</b>	<b>19497.72</b>
Category I Domestic	645.19	693.57	562.35	555.76	610.38	572.06	555.36	541.28	477.01	466.42	495.95	766.26	<b>6,941.57</b>
Category II - Non-domestic/Commercial	214.84	214.43	186.38	179.63	190.44	184.07	179.91	174.91	150.55	153.81	163.52	213.59	<b>2,206.09</b>
Category III (A & B) - Industrial	92.51	86.58	101.62	100.30	101.33	99.77	102.70	117.61	122.68	117.75	100.36	110.75	<b>1,253.95</b>
Category IV - Cottage Industries & Dhobighats	1.44	1.29	1.55	1.57	1.75	1.39	1.63	1.69	1.70	1.57	1.54	1.54	<b>18.67</b>
Category VA,A(i) & A(ii) - Irrigation and Agriculture	669.25	587.23	471.71	668.65	721.38	643.93	699.08	637.76	703.40	738.98	722.23	810.10	<b>8,073.70</b>
Category V (B) - Agriculture (Tatkal)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Category VI - Local Bodies, St. Lighting & PWS	68.30	67.88	67.55	70.07	75.52	84.70	82.59	81.58	84.02	82.93	77.59	79.88	<b>922.60</b>
Category VII (A & B) - General Purpose	6.53	6.29	6.21	6.98	7.85	6.82	5.76	6.97	5.84	5.54	6.89	8.19	<b>79.88</b>
Category VIII-Temporary Supply	0.17	0.12	0.12	0.14	0.11	0.09	0.08	0.07	0.11	0.07	0.11	0.07	<b>1.26</b>
<b>HT Category at 11 KV</b>	<b>285.57</b>	<b>324.95</b>	<b>387.60</b>	<b>359.83</b>	<b>370.55</b>	<b>383.13</b>	<b>368.88</b>	<b>377.99</b>	<b>375.59</b>	<b>357.81</b>	<b>383.23</b>	<b>365.86</b>	<b>4340.99</b>
HT-I Industry Segregated	166.88	193.23	258.92	244.38	248.94	261.28	245.91	261.67	268.89	256.11	271.58	257.90	<b>2,935.70</b>
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-I (B) Ferro-Alloys	0.75	0.88	1.26	1.20	0.98	1.01	0.87	1.03	0.87	0.79	1.05	0.97	<b>11.67</b>
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													-
HT-I Industrial Time-of-Day Tariff (6 PM to 9 PM)													-
HT-I Industrial Time of Day Incentive													-
HT-II Industrial Non-Segregated	103.16	116.85	113.45	101.10	105.38	105.65	106.95	102.09	93.25	86.86	96.13	94.36	<b>1,225.23</b>
HT-IV A Govt. Lift Irrigation Schemes	2.75	2.37	1.75	1.82	2.85	3.20	3.06	1.66	1.66	1.88	2.51	1.87	<b>27.38</b>
HT-IV B Agriculture	0.26	0.28	0.25	0.23	0.26	0.28	0.25	0.19	0.20	0.19	0.04	0.02	<b>2.44</b>
Composite Public Water Supply Schemes	4.05	3.91	3.91	3.73	4.11	3.82	4.14	4.40	3.88	4.37	4.32	3.54	<b>48.17</b>
HT-VI Townships and Residential Colonies	7.27	7.02	7.62	7.08	7.79	7.44	7.21	6.46	6.44	7.15	7.22	6.86	<b>85.57</b>
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
Temporary Supply	0.44	0.41	0.44	0.29	0.24	0.45	0.49	0.50	0.40	0.46	0.37	0.34	<b>4.84</b>
<b>HT Category at 33 KV</b>	<b>361.35</b>	<b>390.40</b>	<b>512.87</b>	<b>489.87</b>	<b>527.53</b>	<b>528.44</b>	<b>563.26</b>	<b>561.46</b>	<b>566.13</b>	<b>528.30</b>	<b>540.60</b>	<b>508.05</b>	<b>6078.26</b>
HT-I Industry Segregated	303.67	327.66	443.47	424.47	445.78	451.77	491.90	485.15	497.38	456.36	475.37	444.42	<b>5,247.38</b>

## ANNEXURE - J<sub>2</sub>

### APCPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

#### SALES FORECAST - APCPDCL 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-I (B) Ferro-Alloys	11.96	11.83	19.53	17.35	20.30	23.78	20.80	25.43	23.61	24.31	23.97	22.51	245.38
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													-
HT-II Industrial Non-Segregated	41.28	46.68	45.58	43.50	47.25	39.90	37.90	38.57	32.15	34.42	37.10	37.30	481.64
HT-IV A Govt. Lift Irrigation Schemes	0.40	0.21	0.23	0.54	9.51	9.63	9.15	9.26	9.50	9.50	0.41	0.37	58.69
HT-IV B Agriculture	0.23	0.23	0.29	0.26	0.45	0.44	0.39	0.00	0.00	0.00	0.00	0.00	2.29
Composite Public Water Supply Schemes	1.72	1.52	1.59	1.66	1.96	1.70	1.82	1.80	2.00	2.09	2.03	1.73	21.63
HT-VI Townships and Residential Colonies	2.09	2.27	2.18	2.08	2.29	1.22	1.30	1.25	1.49	1.63	1.71	1.73	21.25
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
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>HT Category at 132 KV</b>	<b>248.05</b>	<b>236.06</b>	<b>320.76</b>	<b>334.99</b>	<b>397.51</b>	<b>380.77</b>	<b>387.77</b>	<b>383.52</b>	<b>366.98</b>	<b>363.49</b>	<b>398.87</b>	<b>399.74</b>	<b>4218.52</b>
HT-I Industry Segregated	201.50	190.92	269.24	287.10	317.77	301.56	300.75	295.50	280.74	289.37	339.07	343.70	3,417.22
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	14.55	14.40	20.62	20.07	23.23	19.83	20.27	20.37	23.64	18.86	23.05	18.83	237.74
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													
HT-II Industrial Non-Segregated	9.83	11.02	11.67	9.95	9.94	10.49	11.40	10.73	9.70	9.41	10.95	10.97	126.06
HT-IV A Govt. Lift Irrigation Schemes	10.17	6.84	6.73	4.48	32.46	32.27	42.26	43.63	40.78	32.63	12.20	12.87	277.32
HT-IV B Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Composite Public Water Supply Schemes													0.00
HT-V Railway Traction	12.00	12.87	12.50	13.39	14.12	16.61	13.09	13.30	12.11	13.22	13.60	13.37	160.18
HT-VI Townships and Residential Colonies													0.00
HT-VII - Green Power													0.00
RESCOs													0.00
Temporary Supply													0.00
<b>Total</b>	<b>2593.20</b>	<b>2608.80</b>	<b>2618.72</b>	<b>2767.79</b>	<b>3004.36</b>	<b>2885.15</b>	<b>2947.02</b>	<b>2884.83</b>	<b>2854.02</b>	<b>2816.67</b>	<b>2890.90</b>	<b>3264.02</b>	<b>34135.49</b>



### ANNEXURE - J<sub>3</sub>

#### APEPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

##### SALES FORECAST - APEPDCL 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>LT Category</b>	<b>614.22</b>	<b>644.30</b>	<b>589.45</b>	<b>590.89</b>	<b>576.72</b>	<b>567.17</b>	<b>613.55</b>	<b>580.69</b>	<b>590.65</b>	<b>571.83</b>	<b>553.41</b>	<b>653.81</b>	<b>7146.69</b>
Category I Domestic	316.69	329.36	360.73	349.88	316.03	338.09	324.83	311.17	289.57	240.49	218.10	285.96	<b>3,680.89</b>
Category II - Non-domestic/Commercial	69.86	89.23	67.03	66.38	81.20	71.20	68.47	66.02	58.69	57.40	57.44	69.62	<b>822.55</b>
Category III (A & B) - Industrial	38.63	52.61	42.15	49.70	46.00	29.94	42.98	42.44	42.07	57.82	61.93	63.47	<b>569.75</b>
Category IV - Cottage Industries & Dhobighats	0.18	0.18	0.18	0.18	0.21	0.19	0.19	0.20	0.21	0.19	0.19	0.19	<b>2.29</b>
Category VA,A(i) & A(ii) - Irrigation and Agriculture	158.96	145.47	91.10	95.69	105.85	97.84	146.52	129.56	170.72	185.61	183.38	203.32	<b>1,714.02</b>
Category V (B) - Agriculture (Tatkal)													-
Category VI - Local Bodies, St. Lighting & PWS	26.49	24.48	24.06	25.70	23.77	25.86	26.89	27.04	25.55	26.85	28.95	27.49	<b>313.12</b>
Category VII (A & B) - General Purpose	3.36	2.95	4.12	3.34	3.59	3.99	3.59	4.15	3.75	3.38	3.32	3.66	<b>43.19</b>
Category VIII-Temporary Supply	0.04	0.04	0.08	0.02	0.06	0.07	0.08	0.10	0.10	0.10	0.09	0.10	<b>0.88</b>
													-
<b>HT Category at 11 KV</b>	<b>182.03</b>	<b>125.51</b>	<b>153.48</b>	<b>143.48</b>	<b>172.92</b>	<b>180.20</b>	<b>180.87</b>	<b>158.12</b>	<b>147.88</b>	<b>158.97</b>	<b>198.05</b>	<b>191.38</b>	<b>1992.87</b>
HT-I Industry Segregated	77.42	69.13	95.99	90.66	97.27	96.57	103.21	108.83	103.46	116.14	118.85	102.78	<b>1,180.31</b>
Lights & Fans	1.53	1.61	1.76	1.71	1.72	1.52	1.50	1.49	1.38	1.50	1.56	1.30	<b>18.60</b>
Colony consumption	0.14	0.14	0.17	0.16	0.18	0.10	0.07	0.07	0.06	0.05	0.04	0.12	<b>1.31</b>
Seasonal Industries	0.79	0.36	0.06	0.04	0.03	0.06	0.05	0.06	0.06	0.12	0.20	0.30	<b>2.13</b>
HT-I (B) Ferro-Alloys													-
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													-
HT-I Industrial Time-of-Day Tariff (6 PM to 9 PM)													-
HT-I Industrial Time of Day Incentive													-
HT-II Industrial Non-Segregated	35.75	29.08	31.26	29.43	29.97	29.17	27.21	26.22	24.76	22.05	25.45	26.50	<b>336.86</b>
HT-IV A Govt. Lift Irrigation Schemes	26.72	0.24	0.23	0.48	27.18	27.20	27.22	0.97	0.48	0.78	27.16	27.07	<b>165.72</b>
HT-IV B Agriculture	0.07	0.06	0.07	0.12	0.13	0.13	0.13	0.08	0.03	0.14	0.13	0.11	<b>1.20</b>
Composite Public Water Supply Schemes	0.03	0.03	0.04	0.82	0.90	0.75	0.77	1.05	0.83	0.86	0.88	0.81	<b>7.76</b>
HT-VI Townships and Residential Colonies	3.10	2.37	2.72	2.40	2.43	2.77	2.72	2.62	2.40	2.38	2.69	2.63	<b>31.22</b>
HT-VII - Green Power													-
RESCOs	36.08	22.14	20.41	16.85	12.17	21.27	17.34	16.07	13.76	14.31	20.43	29.10	<b>239.94</b>
Temporary Supply	0.40	0.35	0.78	0.80	0.93	0.65	0.65	0.65	0.65	0.65	0.65	0.65	<b>7.82</b>
													-
<b>HT Category at 33 KV</b>	<b>87.99</b>	<b>80.83</b>	<b>110.59</b>	<b>107.24</b>	<b>117.52</b>	<b>116.09</b>	<b>114.06</b>	<b>117.99</b>	<b>122.20</b>	<b>109.02</b>	<b>116.61</b>	<b>128.34</b>	<b>1328.47</b>
HT-I Industry Segregated	66.80	61.55	87.73	85.95	92.50	88.94	90.25	92.53	98.91	85.25	92.41	104.64	<b>1,047.47</b>
Lights & Fans	0.28	0.25	0.30	0.28	0.29	0.32	0.24	0.22	0.20	0.24	0.24	0.28	<b>3.12</b>

### ANNEXURE - J<sub>3</sub>

#### APEPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

##### SALES FORECAST - APEPDCL 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
Colony consumption	0.05	0.06	0.07	0.07	0.07	0.04	0.08	0.06	0.07	0.04	0.04	0.05	0.70
Seasonal Industries	1.68	0.61	0.01	0.00	0.00	0.02	0.02	0.02	0.02	0.04	0.28	0.89	3.59
HT-I (B) Ferro-Alloys	9.03	10.08	14.18	12.76	12.22	11.42	11.30	12.90	13.64	13.86	14.04	13.10	148.53
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													-
HT-I Industrial Time of Day Incentive													-
HT-II Industrial Non-Segregated	9.82	7.95	7.92	7.48	7.87	9.26	8.51	8.31	8.25	7.88	8.20	8.01	99.46
HT-IV A Govt. Lift Irrigation Schemes	0.04	0.04	0.04	0.21	4.07	5.81	3.39	3.68	0.86	1.42	1.12	1.10	21.78
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite Public Water Supply Schemes													-
HT-VI Townships and Residential Colonies	0.24	0.29	0.26	0.28	0.28	0.17	0.15	0.16	0.14	0.16	0.16	0.16	2.44
HT-VII - Green Power													-
RESCOs													-
Temporary Supply	0.05	0.02	0.07	0.21	0.22	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.37
													-
<b>HT Category at 132 KV</b>	<b>169.75</b>	<b>179.84</b>	<b>210.24</b>	<b>227.73</b>	<b>222.89</b>	<b>259.71</b>	<b>244.50</b>	<b>303.09</b>	<b>239.85</b>	<b>219.76</b>	<b>229.82</b>	<b>252.93</b>	<b>2760.12</b>
HT-I Industry Segregated	69.51	75.24	87.83	107.86	96.64	124.86	115.00	169.50	116.95	96.03	104.51	135.57	1,299.51
Lights & Fans	2.56	5.32	3.76	4.08	4.49	8.57	4.27	8.19	4.38	2.71	2.83	5.55	56.71
Colony consumption	5.61	6.83	6.54	6.20	6.57	1.69	5.92	10.50	6.06	4.57	4.30	5.13	69.93
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	36.10	39.02	54.48	53.08	55.17	57.56	57.22	57.45	56.73	58.78	59.80	50.10	635.48
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)													0.00
HT-I Industrial Time of Day Incentive													0.00
HT-II Industrial Non-Segregated	6.41	6.01	7.56	6.64	6.53	13.55	12.19	9.90	9.52	10.45	7.79	11.77	108.31
HT-IV A Govt. Lift Irrigation Schemes													0.00
HT-IV B Agriculture													0.00
Composite Public Water Supply Schemes													0.00
HT-V Railway Traction	49.25	47.11	49.88	49.23	52.80	53.17	49.60	47.25	45.91	46.93	50.29	44.51	585.92
HT-VI Townships and Residential Colonies													0.00
HT-VII - Green Power													0.00
RESCOs													0.00
Temporary Supply	0.30	0.30	0.20	0.65	0.68	0.30	0.30	0.30	0.30	0.30	0.30	0.30	4.26
<b>Total</b>	<b>1053.99</b>	<b>1030.48</b>	<b>1063.76</b>	<b>1069.34</b>	<b>1090.04</b>	<b>1123.17</b>	<b>1152.98</b>	<b>1159.88</b>	<b>1100.58</b>	<b>1059.58</b>	<b>1097.89</b>	<b>1226.47</b>	<b>13228.15</b>

# ANNEXURE - J<sub>4</sub>

## APNPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14

### SALES FORECAST - APNPDCL 2013-14

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
<b>LT Category</b>	<b>615.74</b>	<b>491.27</b>	<b>458.81</b>	<b>561.52</b>	<b>688.59</b>	<b>618.34</b>	<b>728.60</b>	<b>631.51</b>	<b>680.13</b>	<b>721.33</b>	<b>673.20</b>	<b>840.34</b>	<b>7709.37</b>
Category I Domestic	220.34	208.03	214.17	211.86	205.53	231.80	214.29	204.61	194.54	170.71	175.52	209.25	2,460.63
Category II - Non-domestic/Commercial	47.95	45.27	48.89	45.82	44.83	47.04	44.85	45.33	43.68	38.41	40.38	43.88	536.35
Category III (A & B) - Industrial	17.93	20.12	30.17	29.54	25.77	26.79	20.95	21.14	29.74	36.35	30.89	26.26	315.65
Category IV - Cottage Industries & Dhobighats	0.58	0.61	0.54	0.51	0.47	0.61	0.61	0.61	0.64	0.63	0.62	0.62	7.06
Category VA,A(i) & A(ii) - Irrigation and Agriculture	291.60	182.15	132.52	239.92	378.57	273.38	411.25	321.98	374.41	438.60	388.97	522.25	3,955.61
Category V (B) - Agriculture (Tatkal)	-	-	-	-	-	-	-	-	-	-	-	-	-
Category VI - Local Bodies, St. Lighting & PWS	34.30	32.86	30.49	31.38	30.79	35.40	33.93	35.17	34.19	34.20	34.30	35.09	402.10
Category VII (A & B) - General Purpose	3.03	2.23	2.01	2.49	2.62	3.31	2.73	2.67	2.94	2.43	2.52	2.97	31.94
Category VIII-Temporary Supply	-	-	0.02	-	-	-	-	-	-	-	-	0.01	0.03
<b>HT Category at 11 KV</b>	<b>114.14</b>	<b>76.51</b>	<b>87.40</b>	<b>89.81</b>	<b>91.08</b>	<b>116.74</b>	<b>94.09</b>	<b>91.44</b>	<b>111.36</b>	<b>132.34</b>	<b>135.34</b>	<b>125.43</b>	<b>1265.68</b>
HT-I Industry Segregated	24.68	23.65	32.06	28.35	30.09	37.38	26.04	37.05	47.49	50.64	44.21	40.75	422.40
Lights & Fans	-	-	-	-	-	-	-	-	-	-	-	-	-
Colony consumption	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal Industries	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I (B) Ferro-Alloys	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I Industrial Time-of-Day Tariff (6 PM to 9 PM)	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I Industrial Time of Day Incentive	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-II Industrial Non-Segregated	8.91	8.06	8.13	7.37	7.99	8.88	8.03	8.03	6.81	6.05	7.29	7.73	93.29
HT-IV A Govt. Lift Irrigation Schemes	2.03	0.91	0.86	0.79	1.00	2.42	3.01	3.61	3.91	4.10	4.45	2.80	29.90
HT-IV B Agriculture	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.55	0.54	0.54	0.55	0.01	2.25
Composite Public Water Supply Schemes	0.79	0.91	0.97	0.82	0.92	0.97	0.80	0.94	0.96	1.08	1.30	1.07	11.54
HT-VI Townships and Residential Colonies	1.83	1.70	1.80	1.68	1.81	2.01	1.77	1.60	1.43	1.49	1.37	1.41	19.91
HT-VII - Green Power	-	-	-	-	-	-	-	-	-	-	-	-	-
RESCOs	75.91	41.27	43.57	50.78	49.26	65.07	54.43	39.64	50.21	68.43	76.16	71.65	686.39
Temporary Supply	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>HT Category at 33 KV</b>	<b>11.28</b>	<b>19.28</b>	<b>22.32</b>	<b>20.68</b>	<b>16.72</b>	<b>19.74</b>	<b>14.34</b>	<b>14.13</b>	<b>16.56</b>	<b>21.43</b>	<b>21.23</b>	<b>22.62</b>	<b>220.34</b>
HT-I Industry Segregated	8.58	10.59	14.64	12.94	14.56	17.12	12.11	11.84	12.04	13.19	13.22	13.68	154.48

**ANNEXURE - J<sub>4</sub>**

**APNPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14**

**SALES FORECAST - APNPDCL 2013-14**

Sales / Forecast Sales (MU)	Apr-13	May-13	June-13	July-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
Lights & Fans	-	-	-	-	-	-	-	-	-	-	-	-	-
Colony consumption	-	-	-	-	-	-	-	-	-	-	-	-	-
Seasonal Industries	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I (B) Ferro-Alloys	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-I Industrial Time of Day Incentive	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-II Industrial Non-Segregated	0.21	0.45	0.13	0.44	0.16	0.31	0.15	0.17	0.16	0.16	0.22	0.52	3.08
HT-IV A Govt. Lift Irrigation Schemes	0.30	5.77	5.77	5.77	0.30	0.30	0.30	0.30	3.01	6.71	6.24	6.71	41.47
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite Public Water Supply Schemes	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-VI Townships and Residential Colonies	2.20	2.47	1.79	1.54	1.70	2.01	1.78	1.81	1.35	1.37	1.55	1.72	21.30
HT-VII - Green Power	-	-	-	-	-	-	-	-	-	-	-	-	-
RESCOs	-	-	-	-	-	-	-	-	-	-	-	-	-
Temporary Supply	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>HT Category at 132 KV</b>	<b>86.07</b>	<b>106.21</b>	<b>122.37</b>	<b>123.69</b>	<b>103.16</b>	<b>109.44</b>	<b>100.14</b>	<b>100.93</b>	<b>118.26</b>	<b>149.76</b>	<b>145.18</b>	<b>144.69</b>	<b>1409.89</b>
HT-I Industry Segregated	38.40	35.69	49.15	49.03	51.72	56.96	50.18	51.46	48.78	46.92	48.41	45.96	572.66
Lights & Fans	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Colony consumption	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Seasonal Industries	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-I (B) Ferro-Alloys	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-I Industrial Time of Day Incentive	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-II Industrial Non-Segregated	0.04	0.01	0.15	0.10	0.16	0.19	0.15	0.15	0.15	0.16	0.15	0.31	1.72
HT-IV A Govt. Lift Irrigation Schemes	1.06	26.24	26.24	31.65	6.48	6.48	6.48	6.48	28.74	58.73	52.71	58.73	310.02
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Composite Public Water Supply Schemes	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-V Railway Traction	37.61	36.59	38.13	35.74	37.41	37.39	36.33	36.17	34.58	37.90	37.41	32.82	438.06
HT-VI Townships and Residential Colonies	8.97	7.69	8.70	7.17	7.40	8.42	7.00	6.66	6.00	6.06	6.50	6.87	87.43
HT-VII - Green Power	-	-	-	-	-	-	-	-	-	-	-	-	0.00
RESCOs	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Temporary Supply	-	-	-	-	-	-	-	-	-	-	-	-	0.00
<b>Total</b>	<b>827.23</b>	<b>693.27</b>	<b>690.91</b>	<b>795.71</b>	<b>899.55</b>	<b>864.25</b>	<b>937.16</b>	<b>838.00</b>	<b>926.31</b>	<b>1024.86</b>	<b>974.95</b>	<b>1133.08</b>	<b>10605.28</b>

# **ANNEXURE - j<sub>5</sub>**

## **APSPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14**

### **SALES FORECAST - APSPDCL 2013-14**

<b>Sales / Forecast Sales (MU)</b>	<b>Apr-13</b>	<b>May-13</b>	<b>June-13</b>	<b>July-13</b>	<b>Aug-13</b>	<b>Sep-13</b>	<b>Oct-13</b>	<b>Nov-13</b>	<b>Dec-13</b>	<b>Jan-14</b>	<b>Feb-14</b>	<b>Mar-14</b>	<b>Total</b>
<b>LT Category</b>	<b>1045.54</b>	<b>1073.32</b>	<b>946.77</b>	<b>961.94</b>	<b>985.99</b>	<b>939.54</b>	<b>1094.04</b>	<b>949.99</b>	<b>915.95</b>	<b>949.14</b>	<b>985.18</b>	<b>1251.98</b>	<b>12099.36</b>
Category I Domestic	430.21	447.23	444.87	436.15	424.72	424.23	433.56	397.51	372.72	339.84	344.30	419.25	4,914.58
Category II - Non-domestic/Commercial	106.36	112.95	108.67	106.67	98.38	103.66	97.06	93.68	87.31	87.06	91.34	101.52	1,194.65
Category III (A & B) - Industrial	72.91	79.28	92.76	68.59	85.71	88.56	72.71	83.30	65.14	90.98	93.32	99.39	992.65
Category IV - Cottage Industries & Dhobighats	2.52	2.89	2.23	2.15	2.39	2.35	2.91	2.79	3.05	2.56	2.53	1.91	30.27
Category VA,A(i) & A(ii) - Irrigation and Agriculture	391.92	387.98	258.76	309.24	333.86	282.39	445.33	334.74	343.16	386.01	416.08	588.88	4,478.35
Category V (B) - Agriculture (Tatkal)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Category VI - Local Bodies, St. Lighting & PWS	37.22	37.35	34.96	35.40	36.32	34.08	38.16	32.94	40.21	38.80	33.12	35.49	434.05
Category VII (A & B) - General Purpose	4.30	4.56	4.47	3.73	4.60	4.09	4.30	5.01	4.30	3.84	4.29	5.53	53.03
Category VIII-Temporary Supply	0.10	1.08	0.04	0.00	0.01	0.19	0.01	0.01	0.06	0.05	0.20	0.01	1.77
<b>HT Category at 11 KV</b>	<b>140.85</b>	<b>127.61</b>	<b>156.80</b>	<b>139.89</b>	<b>156.41</b>	<b>159.00</b>	<b>159.36</b>	<b>138.27</b>	<b>130.55</b>	<b>140.76</b>	<b>159.69</b>	<b>142.52</b>	<b>1751.71</b>
HT-I Industry Segregated	48.46	51.07	68.64	64.31	72.65	77.37	81.70	72.34	70.21	69.18	76.74	70.15	822.84
Lights & Fans	1.46	1.62	2.37	2.32	2.12	2.80	2.60	1.93	2.47	2.22	2.18	2.04	26.13
Colony consumption	0.23	0.19	0.17	0.18	0.20	0.12	0.14	0.15	0.23	0.16	0.34	0.17	2.28
Seasonal Industries	2.10	1.04	1.48	1.82	1.20	0.84	0.94	2.01	2.89	3.13	2.57	1.77	21.80
HT-I (B) Ferro-Alloys	0.63	0.66	0.85	0.81	0.85	0.00	0.00	0.00	0.62	0.86	0.78	0.82	6.87
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-I Industrial Time-of-Day Tariff (6 PM to 9 PM)	12.16	10.84	11.33	10.35	11.99	12.14	10.89	9.71	10.17	10.06	10.56	9.69	129.89
HT-I Industrial Time of Day Incentive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-II Industrial Non-Segregated	40.09	37.10	35.64	35.08	38.36	36.21	30.33	30.44	27.18	25.54	30.81	29.16	395.94
HT-IV A Govt. Lift Irrigation Schemes	0.53	0.09	(0.00)	0.02	1.32	1.35	1.28	1.30	1.44	1.35	1.47	1.41	11.56
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite Public Water Supply Schemes	0.00	0.69	0.53	0.31	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08
HT-VI Townships and Residential Colonies	4.27	3.50	3.45	3.37	3.38	3.42	5.64	3.53	3.23	3.45	3.64	3.61	44.50
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
RESCOs	30.93	20.80	32.34	21.31	23.80	24.75	25.83	16.84	12.11	24.80	30.60	23.70	287.80
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>HT Category at 33 KV</b>	<b>156.04</b>	<b>159.85</b>	<b>209.47</b>	<b>203.22</b>	<b>232.83</b>	<b>219.63</b>	<b>264.64</b>	<b>246.99</b>	<b>256.14</b>	<b>232.82</b>	<b>237.96</b>	<b>236.55</b>	<b>2656.15</b>
HT-I Industry Segregated	121.04	126.77	168.62	163.60	180.15	175.69	217.24	199.84	207.46	185.18	185.91	189.45	2,120.95
Lights & Fans	1.16	1.07	1.23	1.32	2.46	0.47	1.25	0.82	0.61	0.29	0.60	0.87	12.14

**ANNEXURE - j<sub>5</sub>**

**APSPDCL - CATEGORY WISE AND MONTHLY SALES FOR FY 2013-14**

**SALES FORECAST - APSPDCL 2013-14**

<b>Sales / Forecast Sales (MU)</b>	<b>Apr-13</b>	<b>May-13</b>	<b>June-13</b>	<b>July-13</b>	<b>Aug-13</b>	<b>Sep-13</b>	<b>Oct-13</b>	<b>Nov-13</b>	<b>Dec-13</b>	<b>Jan-14</b>	<b>Feb-14</b>	<b>Mar-14</b>	<b>Total</b>
Colony consumption	0.98	0.84	0.91	0.85	0.97	0.90	1.09	1.05	1.10	0.81	1.07	1.05	11.62
Seasonal Industries	4.20	2.99	1.94	1.48	1.00	0.58	0.49	2.95	4.50	4.65	5.02	3.86	33.67
HT-I (B) Ferro-Alloys	5.08	5.48	8.20	9.00	11.21	8.55	9.47	8.86	8.96	8.88	9.13	8.82	101.65
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	16.86	16.92	22.88	21.60	26.54	22.66	21.55	20.77	21.55	22.29	23.16	21.46	258.25
HT-I Industrial Time of Day Incentive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
HT-II Industrial Non-Segregated	6.00	5.70	5.61	5.30	5.77	5.58	6.07	6.32	6.44	5.69	6.01	5.01	69.51
HT-IV A Govt. Lift Irrigation Schemes	0.64	0.01	0.00	0.01	4.65	5.19	7.47	6.38	5.53	5.03	7.06	6.04	47.99
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite Public 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	-
HT-VI Townships and Residential Colonies	0.07	0.07	0.08	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
HT-VII - Green Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
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>HT Category at 132 KV</b>	<b>147.54</b>	<b>145.42</b>	<b>156.83</b>	<b>166.23</b>	<b>180.34</b>	<b>147.25</b>	<b>171.58</b>	<b>144.14</b>	<b>157.53</b>	<b>155.26</b>	<b>174.03</b>	<b>190.16</b>	<b>1936.30</b>
HT-I Industry Segregated	84.33	82.04	89.89	101.22	110.85	82.86	105.70	89.98	95.39	87.92	107.61	131.55	1,169.33
Lights & Fans	0.10	0.12	0.13	0.13	0.18	0.12	0.12	0.15	0.21	0.33	0.92	0.07	2.58
Colony consumption	0.61	0.58	0.57	0.42	1.13	0.45	0.40	0.58	0.32	0.31	0.36	0.44	6.18
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
HT-I Industrial Time-of-Day Tariff (10 AM to 2 PM)	10.52	10.23	11.51	13.65	14.43	12.22	9.77	9.50	9.71	9.90	12.32	13.95	137.71
HT-II Industrial Non-Segregated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IV A Govt. Lift Irrigation Schemes	-	-	-	-	-	-	-	-	-	-	-	-	0.00
HT-IV B Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Composite Public 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	0.00
HT-V Railway Traction	51.98	52.45	54.72	50.81	53.75	51.59	55.58	43.92	51.91	56.80	52.83	44.15	620.51
HT-VI Townships and Residential Colonies	0	0	0	0	0	0	0	0	0	0	0	0	0.00
HT-VII - Green Power	0	0	0	0	0	0	0	0	0	0	0	0	0.00
RESCOs	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Temporary Supply	0	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>Total</b>	<b>1489.97</b>	<b>1506.19</b>	<b>1469.86</b>	<b>1471.28</b>	<b>1555.56</b>	<b>1465.43</b>	<b>1689.63</b>	<b>1479.38</b>	<b>1460.17</b>	<b>1477.97</b>	<b>1556.86</b>	<b>1821.21</b>	<b>18443.52</b>

**ANNEXURE - K<sub>1</sub>**  
**CPDCL: COST OF SERVICE**

CPDCL	Generation					
LT	Demand			Energy		
	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Recovery Basis - Energy Sales (MU)	CoS - ₹/kWh
LT Cat I - Domestic	1,384.42	2,320.44	497.18	2,525.37	6,941.57	3.64
LT Cat II - Non-domestic	445.26	758.55	489.16	823.59	2,222.81	3.71
LT Cat III (A & B) - Industrial	144.07	249.17	481.86	379.17	994.15	3.81
LT Cat IV - Cottage Industries & Dhobighats	2.66	4.55	486.03	6.99	18.67	3.75
LT Cat V - Irrigation and Agriculture	264.85	2,741.05	80.52	2,816.46	8,073.90	3.49
LT Cat VI - Local Bodies, St. Lighting & PWS	183.22	308.38	495.11	327.88	922.60	3.55
LT Cat VII - General Purpose	15.93	26.85	494.32	28.39	79.88	3.55
LT Cat VIII - Temporary	0.28	0.49	474.91	0.45	1.26	3.55
<b>HT</b>						
HT Cat I - Industry - General (11 kV)	323.51	1,393.43	193.47	951.21	3,284.55	2.90
HT Cat I - Industry - General (33 kV)	535.02	1,340.31	332.65	1,577.01	5,601.20	2.82
HT Cat I - Industry - General (220/132 kV)	302.63	861.32	292.79	1,046.09	3,723.54	2.81
HT Cat II - Industry - Other (11 kV)	151.05	648.50	194.10	370.90	1,249.74	2.97
HT Cat II - Industry - Other (33 kV)	55.30	256.28	179.83	138.32	491.27	2.82
HT Cat II - Industry - Other (220/132 kV)	13.75	33.05	346.69	36.12	128.58	2.81
HT Cat IV - Irrigation & Agriculture (11 kV)	6.61	39.83	138.31	23.91	78.95	3.03
HT Cat IV - Irrigation & Agriculture (33 kV)	27.04	172.37	130.75	101.46	360.35	2.82
HT Cat V - Railway Traction (EHT)	23.42	64.26	303.70	45.90	163.38	2.81
HT Cat VI - Colony Consumption	16.99	44.44	318.62	32.10	108.96	2.95
HT Rural Co-operatives (11 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.66	1.23	448.22	1.47	4.94	2.97
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>3,896.68</b>	<b>11,264.51</b>	<b>288.27</b>	<b>11,232.79</b>	<b>34,450.30</b>	<b>3.26</b>

**ANNEXURE - K<sub>1</sub>**  
**CPDCL: COST OF SERVICE**

CPDCL	Transmission - Inter-State			Transmission - Intra-State		
LT	Demand			Demand		
	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	21.26	2,320.44	7.64	68.26	2,320.44	24.52
LT Cat II - Non-domestic	6.95	758.55	7.64	22.32	758.55	24.52
LT Cat III (A & B) - Industrial	2.28	249.17	7.64	7.33	249.17	24.52
LT Cat IV - Cottage Industries & Dhobighats	0.04	4.55	7.64	0.13	4.55	24.52
LT Cat V - Irrigation and Agriculture	25.11	2,741.05	7.64	80.64	2,741.05	24.52
LT Cat VI - Local Bodies, St. Lighting & PWS	2.83	308.38	7.64	9.07	308.38	24.52
LT Cat VII - General Purpose	0.25	26.85	7.64	0.79	26.85	24.52
LT Cat VIII - Temporary	0.00	0.49	7.64	0.01	0.49	24.52
HT						
HT Cat I - Industry - General (11 kV)	44.31	1,393.43	26.50	142.26	1,393.43	85.08
HT Cat I - Industry - General (33 kV)	42.62	1,340.31	26.50	136.84	1,340.31	85.08
HT Cat I - Industry - General (220/132 kV)	27.39	861.32	26.50	87.94	861.32	85.08
HT Cat II - Industry - Other (11 kV)	20.62	648.50	26.50	66.21	648.50	85.08
HT Cat II - Industry - Other (33 kV)	8.15	256.28	26.50	26.16	256.28	85.08
HT Cat II - Industry - Other (220/132 kV)	1.05	33.05	26.50	3.37	33.05	85.08
HT Cat IV - Irrigation & Agriculture (11 kV)	0.36	39.83	7.64	1.17	39.83	24.52
HT Cat IV - Irrigation & Agriculture (33 kV)	1.58	172.37	7.64	5.07	172.37	24.52
HT Cat V - Railway Traction (EHT)	2.04	64.26	26.50	6.56	64.26	85.08
HT Cat VI - Colony Consumption	1.41	44.44	26.50	4.54	44.44	85.08
HT Rural Co-operatives (11 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.01	1.23	7.64	0.04	1.23	24.52
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>208.27</b>	<b>11,264.51</b>	<b>15.41</b>	<b>668.71</b>	<b>11,264.51</b>	<b>49.47</b>



**ANNEXURE - K<sub>1</sub>**  
**CPDCL: COST OF SERVICE**

CPDCL	Distribution			Retail Supply		
LT	Demand			Energy		
	Cost (₹ Crores)	Rate Basis - Contracts/NCP T-D interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Energy Sales (MU)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	458.79	1,994.40	191.70	43.21	6,942	0.06
LT Cat II - Non-domestic	146.91	638.64	191.70	14.09	2,223	0.06
LT Cat III (A & B) - Industrial	46.38	201.62	191.70	6.49	994	0.07
LT Cat IV - Cottage Industries & Dhobighats	0.87	3.79	191.70	0.12	19	0.06
LT Cat V - Irrigation and Agriculture	569.20	2,474.38	191.70	48.19	8,074	0.06
LT Cat VI - Local Bodies, St. Lighting & PWS	62.27	270.71	191.70	5.61	923	0.06
LT Cat VII - General Purpose	5.39	23.44	191.70	0.49	80	0.06
LT Cat VIII - Temporary	0.09	0.37	191.70	0.01	1	0.06
<b>HT</b>						
HT Cat I - Industry - General (11 kV)	213.66	1,333.51	133.52	16.28	3,285	0.05
HT Cat I - Industry - General (33 kV)	63.48	1,282.67	41.24	26.98	5,601	0.05
HT Cat I - Industry - General (220/132 kV)	0.00		NA	17.90	3,724	0.05
HT Cat II - Industry - Other (11 kV)	99.44	620.62	133.52	6.35	1,250	0.05
HT Cat II - Industry - Other (33 kV)	12.14	245.26	41.24	2.37	491	0.05
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.62	129	0.05
HT Cat IV - Irrigation & Agriculture (11 kV)	5.86	36.56	133.52	0.41	79	0.05
HT Cat IV - Irrigation & Agriculture (33 kV)	8.16	164.86	41.24	1.74	360	0.05
HT Cat V - Railway Traction (EHT)	0.00		NA	0.79	163	0.05
HT Cat VI - Colony Consumption	6.91	43.13	133.52	0.55	109	0.05
HT Rural Co-operatives (11 kV)	0.00	0.00	NA	0.00	0	NA
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.15	0.95	133.52	0.03	5	0.05
Open Access - 33 kV	0.00	0.00	NA	0.00	0	NA
Open Access - 11 kV	0.00	0.00	NA	0.00	0	NA
<b>TOTAL</b>	<b>1,699.70</b>	<b>9,334.91</b>	<b>151.73</b>	<b>192.21</b>	<b>34,450</b>	<b>0.06</b>

**ANNEXURE - K<sub>1</sub>**  
**CPDCL: COST OF SERVICE**

CPDCL	Cost Allocation (₹ Crores)			
LT	Demand - G	Demand - T	Demand - D	Energy
	₹ Crores			
LT Cat I - Domestic	1,384.42	89.52	458.79	2,568.58
LT Cat II - Non-domestic	445.26	29.27	146.91	837.68
LT Cat III (A & B) - Industrial	144.07	9.61	46.38	385.66
LT Cat IV - Cottage Industries & Dhobighats	2.66	0.18	0.87	7.11
LT Cat V - Irrigation and Agriculture	264.85	105.75	569.20	2,864.65
LT Cat VI - Local Bodies, St. Lighting & PWS	183.22	11.90	62.27	333.49
LT Cat VII - General Purpose	15.93	1.04	5.39	28.88
LT Cat VIII - Temporary	0.28	0.02	0.09	0.46
HT				
HT Cat I - Industry - General (11 kV)	323.51	186.57	213.66	967.48
HT Cat I - Industry - General (33 kV)	535.02	179.46	63.48	1,604.00
HT Cat I - Industry - General (220/132 kV)	302.63	115.32	0.00	1,063.99
HT Cat II - Industry - Other (11 kV)	151.05	86.83	99.44	377.25
HT Cat II - Industry - Other (33 kV)	55.30	34.31	12.14	140.68
HT Cat II - Industry - Other (220/132 kV)	13.75	4.43	0.00	36.74
HT Cat IV - Irrigation & Agriculture (11 kV)	6.61	1.54	5.86	24.32
HT Cat IV - Irrigation & Agriculture (33 kV)	27.04	6.65	8.16	103.19
HT Cat V - Railway Traction (EHT)	23.42	8.60	0.00	46.69
HT Cat VI - Colony Consumption	16.99	5.95	6.91	32.65
HT Rural Co-operatives (11 kV)	0.00	0.00	0.00	0.00
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.66	0.05	0.15	1.49
Open Access - 33 kV	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>3,896.68</b>	<b>876.99</b>	<b>1,699.70</b>	<b>11,424.99</b>

**ANNEXURE - K<sub>1</sub>**  
**CPDCL: COST OF SERVICE**

CPDCL	Cost Allocation (₹ Cr.)		Total Cost	Sales	Per unit Cost
LT	Demand	Energy			Total
	₹ Crores				₹ Crores
LT Cat I - Domestic	1,932.74	2,568.58	4,501.31	6,941.57	6.48
LT Cat II - Non-domestic	621.44	837.68	1,459.12	2,222.81	6.56
LT Cat III (A & B) - Industrial	200.07	385.66	585.73	994.15	5.89
LT Cat IV - Cottage Industries & Dhobighats	3.70	7.11	10.82	18.67	5.79
LT Cat V - Irrigation and Agriculture	939.81	2,864.65	3,804.46	8,073.90	4.71
LT Cat VI - Local Bodies, St. Lighting & PWS	257.39	333.49	590.88	922.60	6.40
LT Cat VII - General Purpose	22.35	28.88	51.23	79.88	6.41
LT Cat VIII - Temporary	0.38	0.46	0.84	1.26	6.65
HT					
HT Cat I - Industry - General (11 kV)	723.73	967.48	1,691.21	3,284.55	5.15
HT Cat I - Industry - General (33 kV)	777.95	1,604.00	2,381.95	5,601.20	4.25
HT Cat I - Industry - General (220/132 kV)	417.95	1,063.99	1,481.95	3,723.54	3.98
HT Cat II - Industry - Other (11 kV)	337.31	377.25	714.56	1,249.74	5.72
HT Cat II - Industry - Other (33 kV)	101.76	140.68	242.44	491.27	4.93
HT Cat II - Industry - Other (220/132 kV)	18.18	36.74	54.92	128.58	4.27
HT Cat IV - Irrigation & Agriculture (11 kV)	14.01	24.32	38.33	78.95	4.17
HT Cat IV - Irrigation & Agriculture (33 kV)	41.85	103.19	145.05	360.35	4.17
HT Cat V - Railway Traction (EHT)	32.02	46.69	78.71	163.38	4.82
HT Cat VI - Colony Consumption	29.85	32.65	62.51	108.96	5.74
HT Rural Co-operatives (11 kV)	0.00	0.00	0.00	0.00	0.00
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00	0.00
HT Temporary	0.86	1.49	2.35	4.94	4.76
Open Access - 33 kV	0.00	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00	0.00
TOTAL	6,473.36	11,424.99	17,898.36	34,450.30	5.20

**ANNEXURE - K<sub>2</sub>**  
**EPDCL: COST OF SERVICE**

EPDCL	Generation					
	Demand			Energy		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Recovery Basis - Energy Sales (MU)	CoS - ₹/kWh
LT Cat I - Domestic	560.86	1,141.72	409.37	1,308.65	3,680.89	3.56
LT Cat II - Non-domestic	131.02	262.12	416.54	299.77	838.81	3.57
LT Cat III (A & B) - Industrial	57.15	123.75	384.85	196.07	530.39	3.70
LT Cat IV - Cottage Industries & Dhobighats	0.25	0.54	384.53	0.88	2.29	3.83
LT Cat V - Irrigation and Agriculture	48.96	587.78	69.41	591.05	1,714.80	3.45
LT Cat VI - Local Bodies, St. Lighting & PWS	59.11	129.04	381.73	129.68	313.12	4.14
LT Cat VII - General Purpose	8.03	17.49	382.52	17.89	43.19	4.14
LT Cat VIII - Temporary	0.15	0.32	387.99	0.39	0.88	4.45
HT						
HT Cat I - Industry - General (11 kV)	109.89	669.91	136.70	389.99	1,309.34	2.98
HT Cat I - Industry - General (33 kV)	101.51	346.68	244.00	361.14	1,229.01	2.94
HT Cat I - Industry - General (220/132 kV)	149.57	587.20	212.26	611.31	2,092.06	2.92
HT Cat II - Industry - Other (11 kV)	34.45	204.74	140.21	104.46	350.71	2.98
HT Cat II - Industry - Other (33 kV)	8.49	44.27	159.72	29.98	102.02	2.94
HT Cat II - Industry - Other (220/132 kV)	8.44	35.42	198.63	32.12	109.91	2.92
HT Cat IV - Irrigation & Agriculture (11 kV)	0.61	7.38	69.04	6.49	21.78	2.98
HT Cat IV - Irrigation & Agriculture (33 kV)	4.70	56.74	69.01	51.39	174.89	2.94
HT Cat V - Railway Traction (EHT)	76.24	261.09	243.33	176.67	604.63	2.92
HT Cat VI - Colony Consumption	4.34	14.28	253.24	10.35	34.76	2.98
HT Rural Co-operatives (11 kV)	14.01	48.76	239.34	71.47	239.94	2.98
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	1.99	5.14	322.18	6.02	20.22	2.98
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>1,379.75</b>	<b>4,544.40</b>	<b>253.01</b>	<b>4,395.78</b>	<b>13,413.65</b>	<b>3.28</b>

**ANNEXURE - K<sub>2</sub>**  
**EPDCL: COST OF SERVICE**

EPDCL	ULDC and PGCIL - Inter-State			Transmission - Intra-State		
	Demand			Demand		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	2.30	1,141.72	1.68	7.55	1,141.72	5.51
LT Cat II - Non-domestic	0.53	262.12	1.68	1.73	262.12	5.51
LT Cat III (A & B) - Industrial	0.25	123.75	1.68	0.82	123.75	5.51
LT Cat IV - Cottage Industries & Dhobighats	0.00	0.54	1.68	0.00	0.54	5.51
LT Cat V - Irrigation and Agriculture	1.18	587.78	1.68	3.89	587.78	5.51
LT Cat VI - Local Bodies, St. Lighting & PWS	0.26	129.04	1.68	0.85	129.04	5.51
LT Cat VII - General Purpose	0.04	17.49	1.68	0.12	17.49	5.51
LT Cat VIII - Temporary	0.00	0.32	1.68	0.00	0.32	5.51
HT						
HT Cat I - Industry - General (11 kV)	20.64	669.91	25.67	67.91	669.91	84.48
HT Cat I - Industry - General (33 kV)	10.68	346.68	25.67	35.15	346.68	84.48
HT Cat I - Industry - General (220/132 kV)	18.09	587.20	25.67	59.53	587.20	84.48
HT Cat II - Industry - Other (11 kV)	6.31	204.74	25.67	20.76	204.74	84.48
HT Cat II - Industry - Other (33 kV)	1.36	44.27	25.67	4.49	44.27	84.48
HT Cat II - Industry - Other (220/132 kV)	1.09	35.42	25.67	3.59	35.42	84.48
HT Cat IV - Irrigation & Agriculture (11 kV)	0.01	7.38	1.68	0.05	7.38	5.51
HT Cat IV - Irrigation & Agriculture (33 kV)	0.11	56.74	1.68	0.38	56.74	5.51
HT Cat V - Railway Traction (EHT)	8.04	261.09	25.67	26.47	261.09	84.48
HT Cat VI - Colony Consumption	0.44	14.28	25.67	1.45	14.28	84.48
HT Rural Co-operatives (11 kV)	0.10	48.76	1.68	0.32	48.76	5.51
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.01	5.14	1.68	0.03	5.14	5.51
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>71.44</b>	<b>4,544.40</b>	<b>13.10</b>	<b>235.09</b>	<b>4,544.40</b>	<b>43.11</b>

**ANNEXURE - K<sub>2</sub>**  
**EPDCL: COST OF SERVICE**

EPDCL	Distribution			Retail Supply		
	Demand			Energy		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP T-D interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Energy Sales (MU)	CoS - ₹/kWh
LT Cat I - Domestic	323.69	1,011.37	266.71	24.56	3,681	0.07
LT Cat II - Non-domestic	73.76	230.47	266.71	5.63	839	0.07
LT Cat III (A & B) - Industrial	33.41	104.40	266.71	3.68	530	0.07
LT Cat IV - Cottage Industries & Dhobighats	0.14	0.45	266.71	0.02	2	0.07
LT Cat V - Irrigation and Agriculture	172.34	538.47	266.71	11.09	1,715	0.06
LT Cat VI - Local Bodies, St. Lighting & PWS	30.04	93.85	266.71	2.43	313	0.08
LT Cat VII - General Purpose	4.14	12.95	266.71	0.34	43	0.08
LT Cat VIII - Temporary	0.08	0.26	266.71	0.01	1	0.08
HT						
HT Cat I - Industry - General (11 kV)	111.87	641.11	145.41	7.32	1,309	0.06
HT Cat I - Industry - General (33 kV)	10.46	331.78	26.27	6.78	1,229	0.06
HT Cat I - Industry - General (220/132 kV)	0.00		NA	11.47	2,092	0.05
HT Cat II - Industry - Other (11 kV)	34.19	195.93	145.41	1.96	351	0.06
HT Cat II - Industry - Other (33 kV)	1.34	42.37	26.27	0.56	102	0.06
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.60	110	0.05
HT Cat IV - Irrigation & Agriculture (11 kV)	1.23	7.03	145.41	0.12	22	0.06
HT Cat IV - Irrigation & Agriculture (33 kV)	1.71	54.21	26.27	0.96	175	0.06
HT Cat V - Railway Traction (EHT)	0.00		NA	3.32	605	0.05
HT Cat VI - Colony Consumption	2.43	13.91	145.41	0.19	35	0.06
HT Rural Co-operatives (11 kV)	8.11	46.47	145.41	1.34	240	0.06
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.85	4.89	145.41	0.11	20	0.06
Open Access - 33 kV	0.00	0.00	NA			
Open Access - 11 kV	0.00	0.00	NA			
<b>TOTAL</b>	<b>809.79</b>	<b>3,329.93</b>	<b>202.65</b>	<b>82.49</b>	<b>13,414</b>	<b>0.06</b>

**ANNEXURE - K<sub>2</sub>**  
**EPDCL: COST OF SERVICE**

EPDCL	Cost Allocation (₹ Crores)			
	Demand - G	Demand - T	Demand - D	Energy
<b>LT</b>	<b>₹ Crores</b>			
LT Cat I - Domestic	560.86	9.85	323.69	1,333.21
LT Cat II - Non-domestic	131.02	2.26	73.76	305.40
LT Cat III (A & B) - Industrial	57.15	1.07	33.41	199.75
LT Cat IV - Cottage Industries & Dhobighats	0.25	0.00	0.14	0.90
LT Cat V - Irrigation and Agriculture	48.96	5.07	172.34	602.14
LT Cat VI - Local Bodies, St. Lighting & PWS	59.11	1.11	30.04	132.11
LT Cat VII - General Purpose	8.03	0.15	4.14	18.23
LT Cat VIII - Temporary	0.15	0.00	0.08	0.40
<b>HT</b>				
HT Cat I - Industry - General (11 kV)	109.89	88.55	111.87	397.31
HT Cat I - Industry - General (33 kV)	101.51	45.83	10.46	367.92
HT Cat I - Industry - General (220/132 kV)	149.57	77.62	0.00	622.78
HT Cat II - Industry - Other (11 kV)	34.45	27.06	34.19	106.42
HT Cat II - Industry - Other (33 kV)	8.49	5.85	1.34	30.54
HT Cat II - Industry - Other (220/132 kV)	8.44	4.68	0.00	32.72
HT Cat IV - Irrigation & Agriculture (11 kV)	0.61	0.06	1.23	6.61
HT Cat IV - Irrigation & Agriculture (33 kV)	4.70	0.49	1.71	52.36
HT Cat V - Railway Traction (EHT)	76.24	34.51	0.00	179.99
HT Cat VI - Colony Consumption	4.34	1.89	2.43	10.55
HT Rural Co-operatives (11 kV)	14.01	0.42	8.11	72.81
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	1.99	0.04	0.85	6.14
Open Access - 33 kV	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,379.75</b>	<b>306.54</b>	<b>809.79</b>	<b>4,478.27</b>

**ANNEXURE - K<sub>2</sub>**  
**EPDCL: COST OF SERVICE**

EPDCL	Cost Allocation (₹ Cr.)		Total Cost	Sales	Per unit Cost
	Demand	Energy			Total
LT	₹ Crores		₹ Crores	MUs	₹/Unit
LT Cat I - Domestic	894.40	1,333.21	2,227.61	3,680.89	6.05
LT Cat II - Non-domestic	207.05	305.40	512.44	838.81	6.11
LT Cat III (A & B) - Industrial	91.63	199.75	291.39	530.39	5.49
LT Cat IV - Cottage Industries & Dhobighats	0.40	0.90	1.29	2.29	5.64
LT Cat V - Irrigation and Agriculture	226.37	602.14	828.51	1,714.80	4.83
LT Cat VI - Local Bodies, St. Lighting & PWS	90.26	132.11	222.37	313.12	7.10
LT Cat VII - General Purpose	12.32	18.23	30.55	43.19	7.07
LT Cat VIII - Temporary	0.24	0.40	0.64	0.88	7.21
HT					
HT Cat I - Industry - General (11 kV)	310.31	397.31	707.63	1,309.34	5.40
HT Cat I - Industry - General (33 kV)	157.80	367.92	525.72	1,229.01	4.28
HT Cat I - Industry - General (220/132 kV)	227.18	622.78	849.96	2,092.06	4.06
HT Cat II - Industry - Other (11 kV)	95.70	106.42	202.12	350.71	5.76
HT Cat II - Industry - Other (33 kV)	15.67	30.54	46.21	102.02	4.53
HT Cat II - Industry - Other (220/132 kV)	13.13	32.72	45.84	109.91	4.17
HT Cat IV - Irrigation & Agriculture (11 kV)	1.90	6.61	8.51	21.78	3.45
HT Cat IV - Irrigation & Agriculture (33 kV)	6.90	52.36	59.25	174.89	3.45
HT Cat V - Railway Traction (EHT)	110.75	179.99	290.74	604.63	4.81
HT Cat VI - Colony Consumption	8.66	10.55	19.20	34.76	5.52
HT Rural Co-operatives (11 kV)	22.53	72.81	95.34	239.94	3.97
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00	0.00
HT Temporary	2.88	6.14	9.02	20.22	4.46
Open Access - 33 kV	0.00	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>2,496.08</b>	<b>4,478.27</b>	<b>6,974.35</b>	<b>13,413.65</b>	<b>5.20</b>



**ANNEXURE - K<sub>3</sub>**  
**NPDCL: COST OF SERVICE**

<b>NPDCL</b>	<b>Generation</b>					
<b>LT</b>	<b>Demand</b>			<b>Energy</b>		
	<b>Cost (₹ Crores)</b>	<b>Rate Basis - Contracts/NCP G-T interface (MW)</b>	<b>CoS - ₹/kVA/ Month</b>	<b>Cost (₹ Crores)</b>	<b>Recovery Basis - Energy Sales (MU)</b>	<b>CoS - ₹/kWh</b>
LT Cat I - Domestic	543.81	780.19	580.84	795.45	2,460.63	3.23
LT Cat II - Non-domestic	130.94	195.87	557.08	186.01	537.05	3.46
LT Cat III (A & B) - Industrial	41.64	64.81	535.46	80.02	230.11	3.48
LT Cat IV - Cottage Industries & Dhobighats	1.23	1.88	547.72	2.38	7.06	3.37
LT Cat V - Irrigation and Agriculture	153.58	1,293.17	98.97	1,223.46	3,955.61	3.09
LT Cat VI - Local Bodies, St. Lighting & PWS	104.60	152.67	570.95	134.43	402.10	3.34
LT Cat VII - General Purpose	8.33	12.16	570.57	10.69	31.97	3.34
LT Cat VIII - Temporary	0.01	0.01	501.43	0.01	0.03	3.34
<b>HT</b>	<b>0.00</b>			<b>0.00</b>		
HT Cat I - Industry - General (11 kV)	67.43	232.88	241.28	147.76	511.13	2.89
HT Cat I - Industry - General (33 kV)	19.29	42.11	381.75	41.85	154.44	2.71
HT Cat I - Industry - General (220/132 kV)	58.46	166.31	292.92	158.08	584.68	2.70
HT Cat II - Industry - Other (11 kV)	12.77	29.03	366.56	26.90	95.24	2.82
HT Cat II - Industry - Other (33 kV)	0.40	1.71	194.50	0.89	3.08	2.89
HT Cat II - Industry - Other (220/132 kV)	0.23	4.45	43.79	0.52	1.88	2.77
HT Cat IV - Irrigation & Agriculture (11 kV)	40.24	171.09	196.00	100.22	351.49	2.85
HT Cat IV - Irrigation & Agriculture (33 kV)	0.72	21.83	27.62	8.71	32.15	2.71
HT Cat V - Railway Traction (EHT)	78.51	126.65	516.62	118.68	438.95	2.70
HT Cat VI - Colony Consumption	24.13	30.33	663.12	36.85	130.53	2.82
HT Rural Co-operatives (11 kV)	56.28	131.20	357.45	188.71	686.39	2.75
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	NA	0.00	0.00	NA
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>1,342.60</b>	<b>3,458.35</b>	<b>323.52</b>	<b>3,261.62</b>	<b>10,614.52</b>	<b>3.07</b>

**ANNEXURE - K<sub>3</sub>**  
**NPDCL: COST OF SERVICE**

<b>NPDCL</b>	<b>Transmission - Inter-State</b>			<b>Transmission - Intra-State</b>		
<b>LT</b>	<b>Demand</b>			<b>Demand</b>		
	<b>Cost (₹ Crores)</b>	<b>Rate Basis - Contracts/NCP G-T interface (MW)</b>	<b>CoS - ₹/kVA/ Month</b>	<b>Cost (₹ Crores)</b>	<b>Rate Basis - Contracts/NCP G-T interface (MW)</b>	<b>CoS - ₹/kVA/ Month</b>
LT Cat I - Domestic	14.23	780.19	15.20	45.49	780.19	48.59
LT Cat II - Non-domestic	3.57	195.87	15.20	11.42	195.87	48.59
LT Cat III (A & B) - Industrial	1.18	64.81	15.20	3.78	64.81	48.59
LT Cat IV - Cottage Industries & Dhobighats	0.03	1.88	15.20	0.11	1.88	48.59
LT Cat V - Irrigation and Agriculture	23.59	1,293.17	15.20	75.41	1,293.17	48.59
LT Cat VI - Local Bodies, St. Lighting & PWS	2.78	152.67	15.20	8.90	152.67	48.59
LT Cat VII - General Purpose	0.22	12.16	15.20	0.71	12.16	48.59
LT Cat VIII - Temporary	0.00	0.01	15.20	0.00	0.01	48.59
<b>HT</b>						
HT Cat I - Industry - General (11 kV)	7.44	232.88	26.63	23.79	232.88	85.13
HT Cat I - Industry - General (33 kV)	1.35	42.11	26.63	4.30	42.11	85.13
HT Cat I - Industry - General (220/132 kV)	5.31	166.31	26.63	16.99	166.31	85.13
HT Cat II - Industry - Other (11 kV)	0.93	29.03	26.63	2.97	29.03	85.13
HT Cat II - Industry - Other (33 kV)	0.05	1.71	26.63	0.17	1.71	85.13
HT Cat II - Industry - Other (220/132 kV)	0.14	4.45	26.63	0.45	4.45	85.13
HT Cat IV - Irrigation & Agriculture (11 kV)	3.12	171.09	15.20	9.98	171.09	48.59
HT Cat IV - Irrigation & Agriculture (33 kV)	0.40	21.83	15.20	1.27	21.83	48.59
HT Cat V - Railway Traction (EHT)	4.05	126.65	26.63	12.94	126.65	85.13
HT Cat VI - Colony Consumption	0.97	30.33	26.63	3.10	30.33	85.13
HT Rural Co-operatives (11 kV)	2.39	131.20	15.20	7.65	131.20	48.59
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	NA	0.00	0.00	NA
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>71.76</b>	<b>3,458.35</b>	<b>17.29</b>	<b>229.4324</b>	<b>3,458.35</b>	<b>55.28</b>

**ANNEXURE - K<sub>3</sub>**  
**NPDCCL: COST OF SERVICE**

NPDCCL	Distribution			Retail Supply		
LT	Demand			Energy		
	Cost (₹ Crores)	Rate Basis - Contracts/NCP T-D interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Energy Sales (MU)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	246.10	703.39	291.57	12.02	2,461	0.05
LT Cat II - Non-domestic	57.38	163.99	291.57	2.81	537	0.05
LT Cat III (A & B) - Industrial	18.33	52.40	291.57	1.21	230	0.05
LT Cat IV - Cottage Industries & Dhobighats	0.56	1.61	291.57	0.04	7	0.05
LT Cat V - Irrigation and Agriculture	432.42	1,235.92	291.57	18.49	3,956	0.05
LT Cat VI - Local Bodies, St. Lighting & PWS	46.10	131.76	291.57	2.03	402	0.05
LT Cat VII - General Purpose	3.67	10.48	291.57	0.16	32	0.05
LT Cat VIII - Temporary	0.00	0.01	291.57	0.00	0	0.05
<b>HT</b>						
HT Cat I - Industry - General (11 kV)	33.35	222.86	124.69	2.23	511	0.04
HT Cat I - Industry - General (33 kV)	0.96	40.30	19.95	0.63	154	0.04
HT Cat I - Industry - General (220/132 kV)	0.00		NA	2.39	585	0.04
HT Cat II - Industry - Other (11 kV)	4.16	27.79	124.69	0.41	95	0.04
HT Cat II - Industry - Other (33 kV)	0.04	1.63	19.95	0.01	3	0.04
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.01	2	0.04
HT Cat IV - Irrigation & Agriculture (11 kV)	24.42	163.20	124.69	1.51	351	0.04
HT Cat IV - Irrigation & Agriculture (33 kV)	0.35	14.75	19.95	0.13	32	0.04
HT Cat V - Railway Traction (EHT)	0.00		NA	1.79	439	0.04
HT Cat VI - Colony Consumption	4.42	29.51	124.69	0.56	131	0.04
HT Rural Co-operatives (11 kV)	18.63	124.49	124.69	2.85	686	0.04
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.00	0.00	NA	0.00	0	NA
Open Access - 33 kV	0.00	0.00	NA			
Open Access - 11 kV	0.00	0.00	NA			
<b>TOTAL</b>	<b>890.89</b>	<b>2,924.09</b>	<b>253.89</b>	<b>49.29</b>	<b>10,615</b>	<b>0.05</b>

**ANNEXURE - K<sub>3</sub>**  
**NPDCL: COST OF SERVICE**

<b>NPDCL</b>	<b>Cost Allocation (₹ Crores)</b>			
<b>LT</b>	<b>Demand - G</b>	<b>Demand - T</b>	<b>Demand - D</b>	<b>Energy</b>
	<b>₹ Crores</b>			
LT Cat I - Domestic	543.81	59.72	246.10	807.47
LT Cat II - Non-domestic	130.94	14.99	57.38	188.83
LT Cat III (A & B) - Industrial	41.64	4.96	18.33	81.23
LT Cat IV - Cottage Industries & Dhobighats	1.23	0.14	0.56	2.42
LT Cat V - Irrigation and Agriculture	153.58	98.99	432.42	1,241.95
LT Cat VI - Local Bodies, St. Lighting & PWS	104.60	11.69	46.10	136.46
LT Cat VII - General Purpose	8.33	0.93	3.67	10.85
LT Cat VIII - Temporary	0.01	0.00	0.00	0.01
<b>HT</b>				
HT Cat I - Industry - General (11 kV)	67.43	31.23	33.35	150.00
HT Cat I - Industry - General (33 kV)	19.29	5.65	0.96	42.48
HT Cat I - Industry - General (220/132 kV)	58.46	22.30	0.00	160.47
HT Cat II - Industry - Other (11 kV)	12.77	3.89	4.16	27.31
HT Cat II - Industry - Other (33 kV)	0.40	0.23	0.04	0.90
HT Cat II - Industry - Other (220/132 kV)	0.23	0.60	0.00	0.53
HT Cat IV - Irrigation & Agriculture (11 kV)	40.24	13.10	24.42	101.73
HT Cat IV - Irrigation & Agriculture (33 kV)	0.72	1.67	0.35	8.84
HT Cat V - Railway Traction (EHT)	78.51	16.98	0.00	120.47
HT Cat VI - Colony Consumption	24.13	4.07	4.42	37.41
HT Rural Co-operatives (11 kV)	56.28	10.04	18.63	191.56
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00
Open Access - 33 kV	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,342.60</b>	<b>301.19</b>	<b>890.89</b>	<b>3,310.91</b>

**ANNEXURE - K<sub>3</sub>**  
**NPDCL: COST OF SERVICE**

NPDCL	Cost Allocation (₹ Cr.)		Total Cost	Sales	Per unit Cost
	Demand	Energy			Total
	₹ Crores		₹ Crores	MUs	₹/Unit
<b>LT</b>					
LT Cat I - Domestic	849.63	807.47	1,657.10	2,460.63	6.73
LT Cat II - Non-domestic	203.31	188.83	392.13	537.05	7.30
LT Cat III (A & B) - Industrial	64.94	81.23	146.17	230.11	6.35
LT Cat IV - Cottage Industries & Dhobighats	1.94	2.42	4.36	7.06	6.17
LT Cat V - Irrigation and Agriculture	684.99	1,241.95	1,926.94	3,955.61	4.87
LT Cat VI - Local Bodies, St. Lighting & PWS	162.39	136.46	298.85	402.10	7.43
LT Cat VII - General Purpose	12.92	10.85	23.77	31.97	7.44
LT Cat VIII - Temporary	0.01	0.01	0.02	0.03	6.56
<b>HT</b>					
HT Cat I - Industry - General (11 kV)	132.00	150.00	282.00	511.13	5.52
HT Cat I - Industry - General (33 kV)	25.90	42.48	68.38	154.44	4.43
HT Cat I - Industry - General (220/132 kV)	80.76	160.47	241.23	584.68	4.13
HT Cat II - Industry - Other (11 kV)	20.82	27.31	48.13	95.24	5.05
HT Cat II - Industry - Other (33 kV)	0.67	0.90	1.57	3.08	5.10
HT Cat II - Industry - Other (220/132 kV)	0.83	0.53	1.36	1.88	7.24
HT Cat IV - Irrigation & Agriculture (11 kV)	77.76	101.73	179.49	351.49	4.98
HT Cat IV - Irrigation & Agriculture (33 kV)	2.75	8.84	11.59	32.15	4.98
HT Cat V - Railway Traction (EHT)	95.50	120.47	215.97	438.95	4.92
HT Cat VI - Colony Consumption	32.62	37.41	70.02	130.53	5.36
HT Rural Co-operatives (11 kV)	84.95	191.56	276.51	686.39	4.03
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00	0.00
Open Access - 33 kV	0.00	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>2,534.68</b>	<b>3,310.91</b>	<b>5,845.59</b>	<b>10,614.52</b>	<b>5.51</b>

**ANNEXURE - K<sub>4</sub>**  
**SPDCL: COST OF SERVICE**

SPDCL	Generation					
	Demand			Energy		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Recovery Basis - Energy Sales (MU)	CoS - ₹/kWh
LT Cat I - Domestic	766.63	1,404.41	454.89	1,708.12	4,914.58	3.48
LT Cat II - Non-domestic	201.06	372.81	449.42	426.66	1,222.15	3.49
LT Cat III (A & B) - Industrial	103.80	209.95	412.00	330.12	941.70	3.51
LT Cat IV - Cottage Industries & Dhobighats	3.35	6.65	419.59	10.60	30.27	3.50
LT Cat V - Irrigation and Agriculture	120.12	1,384.33	72.31	1,540.36	4,481.59	3.44
LT Cat VI - Local Bodies, St. Lighting & PWS	77.80	188.60	343.76	150.42	436.99	3.44
LT Cat VII - General Purpose	9.76	23.64	344.06	18.83	55.01	3.42
LT Cat VIII - Temporary	0.31	0.73	358.21	0.61	1.77	3.42
HT						
HT Cat I - Industry - General (11 kV)	108.45	440.57	205.14	362.69	1,179.35	3.08
HT Cat I - Industry - General (33 kV)	233.01	458.41	423.58	793.00	2,686.87	2.95
HT Cat I - Industry - General (220/132 kV)	102.23	290.36	293.39	412.63	1,403.25	2.94
HT Cat II - Industry - Other (11 kV)	42.00	152.99	228.76	135.55	448.77	3.02
HT Cat II - Industry - Other (33 kV)	7.79	31.43	206.51	24.56	83.23	2.95
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Cat IV - Irrigation & Agriculture (11 kV)	3.37	23.94	117.34	14.65	47.99	3.05
HT Cat IV - Irrigation & Agriculture (33 kV)	0.13	5.54	19.17	3.41	11.56	2.95
HT Cat V - Railway Traction (EHT)	80.17	186.42	358.39	188.60	641.37	2.94
HT Cat VI - Colony Consumption	6.62	21.94	251.45	14.79	49.03	3.02
HT Rural Co-operatives (11 kV)	17.44	69.36	209.58	86.83	287.80	3.02
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	NA	0.00	0.00	NA
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>1,884.05</b>	<b>5,272.10</b>	<b>297.80</b>	<b>6,222.42</b>	<b>18,923.27</b>	<b>3.29</b>

**ANNEXURE - K<sub>4</sub>**  
**SPDCL: COST OF SERVICE**

SPDCL	Transmission - Inter-State			Transmission - Intra-State		
	Demand			Demand		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	19.92	1,404.41	11.82	66.22	1,404.41	39.29
LT Cat II - Non-domestic	5.29	372.81	11.82	17.58	372.81	39.29
LT Cat III (A & B) - Industrial	2.98	209.95	11.82	9.90	209.95	39.29
LT Cat IV - Cottage Industries & Dhobighats	0.09	6.65	11.82	0.31	6.65	39.29
LT Cat V - Irrigation and Agriculture	19.64	1,384.33	11.82	65.27	1,384.33	39.29
LT Cat VI - Local Bodies, St. Lighting & PWS	2.68	188.60	11.82	8.89	188.60	39.29
LT Cat VII - General Purpose	0.34	23.64	11.82	1.11	23.64	39.29
LT Cat VIII - Temporary	0.01	0.73	11.82	0.03	0.73	39.29
HT						
HT Cat I - Industry - General (11 kV)	13.46	440.57	25.47	44.75	440.57	84.65
HT Cat I - Industry - General (33 kV)	14.01	458.41	25.47	46.56	458.41	84.65
HT Cat I - Industry - General (220/132 kV)	8.87	290.36	25.47	29.49	290.36	84.65
HT Cat II - Industry - Other (11 kV)	4.68	152.99	25.47	15.54	152.99	84.65
HT Cat II - Industry - Other (33 kV)	0.96	31.43	25.47	3.19	31.43	84.65
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Cat IV - Irrigation & Agriculture (11 kV)	0.34	23.94	11.82	1.13	23.94	39.29
HT Cat IV - Irrigation & Agriculture (33 kV)	0.08	5.54	11.82	0.26	5.54	39.29
HT Cat V - Railway Traction (EHT)	5.70	186.42	25.47	18.94	186.42	84.65
HT Cat VI - Colony Consumption	0.67	21.94	25.47	2.23	21.94	84.65
HT Rural Co-operatives (11 kV)	0.98	69.36	11.82	3.27	69.36	39.29
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	NA	0.00	0.00	NA
Open Access - 33 kV						
Open Access - 11 kV						
<b>TOTAL</b>	<b>100.70</b>	<b>5,272.10</b>	<b>15.92</b>	<b>334.70</b>	<b>5,272.10</b>	<b>52.90</b>

**ANNEXURE - K<sub>4</sub>**  
**SPDCL: COST OF SERVICE**

SPDCL	Distribution			Retail Supply		
	Demand			Energy		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP T-D interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Energy Sales (MU)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	424.44	1,266.01	279.38	29.11	4,915	0.06
LT Cat II - Non-domestic	112.15	334.51	279.38	7.27	1,222	0.06
LT Cat III (A & B) - Industrial	61.91	184.65	279.38	5.63	942	0.06
LT Cat IV - Cottage Industries & Dhobighats	1.99	5.94	279.38	0.18	30	0.06
LT Cat V - Irrigation and Agriculture	429.11	1,279.95	279.38	26.25	4,482	0.06
LT Cat VI - Local Bodies, St. Lighting & PWS	54.99	164.03	279.38	2.56	437	0.06
LT Cat VII - General Purpose	6.92	20.65	279.38	0.32	55	0.06
LT Cat VIII - Temporary	0.22	0.67	279.38	0.01	2	0.06
HT						
HT Cat I - Industry - General (11 kV)	96.65	421.62	191.03	6.18	1,179	0.05
HT Cat I - Industry - General (33 kV)	24.25	438.70	46.07	13.51	2,687	0.05
HT Cat I - Industry - General (220/132 kV)	0.00		NA	7.03	1,403	0.05
HT Cat II - Industry - Other (11 kV)	33.56	146.41	191.03	2.31	449	0.05
HT Cat II - Industry - Other (33 kV)	1.66	30.08	46.07	0.42	83	0.05
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.00	0	NA
HT Cat IV - Irrigation & Agriculture (11 kV)	5.13	22.39	191.03	0.25	48	0.05
HT Cat IV - Irrigation & Agriculture (33 kV)	0.29	5.30	46.07	0.06	12	0.05
HT Cat V - Railway Traction (EHT)	0.00		NA	3.21	641	0.05
HT Cat VI - Colony Consumption	4.92	21.46	191.03	0.25	49	0.05
HT Rural Co-operatives (11 kV)	15.09	65.82	191.03	1.48	288	0.05
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.00	0.00	NA	0.00	0	NA
Open Access - 33 kV	0.00	0.00	NA			
Open Access - 11 kV	0.00	0.00	NA			
<b>TOTAL</b>	<b>1,273.30</b>	<b>4,408.17</b>	<b>240.71</b>	<b>106.04</b>	<b>18,923</b>	<b>0.06</b>



**ANNEXURE - K<sub>4</sub>**  
**SPDCL: COST OF SERVICE**

SPDCL	Cost Allocation (₹ Crores)			
	Demand - G	Demand - T	Demand - D	Energy
<b>LT</b>	<b>₹ Crores</b>			
LT Cat I - Domestic	766.63	86.14	424.44	1,737.23
LT Cat II - Non-domestic	201.06	22.87	112.15	433.93
LT Cat III (A & B) - Industrial	103.80	12.88	61.91	335.74
LT Cat IV - Cottage Industries & Dhobighats	3.35	0.41	1.99	10.78
LT Cat V - Irrigation and Agriculture	120.12	84.91	429.11	1,566.61
LT Cat VI - Local Bodies, St. Lighting & PWS	77.80	11.57	54.99	152.99
LT Cat VII - General Purpose	9.76	1.45	6.92	19.15
LT Cat VIII - Temporary	0.31	0.04	0.22	0.62
<b>HT</b>	<b>0.00</b>			
HT Cat I - Industry - General (11 kV)	108.45	58.22	96.65	368.87
HT Cat I - Industry - General (33 kV)	233.01	60.57	24.25	806.52
HT Cat I - Industry - General (220/132 kV)	102.23	38.37	0.00	419.66
HT Cat II - Industry - Other (11 kV)	42.00	20.22	33.56	137.86
HT Cat II - Industry - Other (33 kV)	7.79	4.15	1.66	24.98
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	0.00	0.00
HT Cat IV - Irrigation & Agriculture (11 kV)	3.37	1.47	5.13	14.90
HT Cat IV - Irrigation & Agriculture (33 kV)	0.13	0.34	0.29	3.47
HT Cat V - Railway Traction (EHT)	80.17	24.63	0.00	191.81
HT Cat VI - Colony Consumption	6.62	2.90	4.92	15.05
HT Rural Co-operatives (11 kV)	17.44	4.25	15.09	88.31
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00
Open Access - 33 kV	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,884.05</b>	<b>435.40</b>	<b>1,273.30</b>	<b>6,328.46</b>

**ANNEXURE - K<sub>4</sub>**  
**SPDCL: COST OF SERVICE**

SPDCL	Cost Allocation (₹ Cr.)		Total Cost	Sales	Per unit Cost
	Demand	Energy			Total
LT	₹ Crores		₹ Crores	MUs	₹/Unit
LT Cat I - Domestic	1,277.21	1,737.23	3,014.44	4,914.58	6.13
LT Cat II - Non-domestic	336.07	433.93	770.00	1,222.15	6.30
LT Cat III (A & B) - Industrial	178.58	335.74	514.33	941.70	5.46
LT Cat IV - Cottage Industries & Dhobighats	5.75	10.78	16.52	30.27	5.46
LT Cat V - Irrigation and Agriculture	634.15	1,566.61	2,200.76	4,481.59	4.91
LT Cat VI - Local Bodies, St. Lighting & PWS	144.36	152.99	297.35	436.99	6.80
LT Cat VII - General Purpose	18.13	19.15	37.29	55.01	6.78
LT Cat VIII - Temporary	0.58	0.62	1.20	1.77	6.76
HT					
HT Cat I - Industry - General (11 kV)	263.32	368.87	632.19	1,179.35	5.36
HT Cat I - Industry - General (33 kV)	317.84	806.52	1,124.35	2,686.87	4.18
HT Cat I - Industry - General (220/132 kV)	140.59	419.66	560.25	1,403.25	3.99
HT Cat II - Industry - Other (11 kV)	95.77	137.86	233.63	448.77	5.21
HT Cat II - Industry - Other (33 kV)	13.61	24.98	38.59	83.23	4.64
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	0.00	0.00	0.00
HT Cat IV - Irrigation & Agriculture (11 kV)	9.97	14.90	24.87	47.99	4.89
HT Cat IV - Irrigation & Agriculture (33 kV)	0.76	3.47	4.23	11.56	4.89
HT Cat V - Railway Traction (EHT)	104.80	191.81	296.61	641.37	4.62
HT Cat VI - Colony Consumption	14.44	15.05	29.48	49.03	6.01
HT Rural Co-operatives (11 kV)	36.79	88.31	125.10	287.80	4.35
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00	0.00
Open Access - 33 kV	0.00	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>3,592.74</b>	<b>6,328.46</b>	<b>9,921.21</b>	<b>18,923.27</b>	<b>5.24</b>

**ANNEXURE - K<sub>5</sub>**  
**ALL DISCOMS: COST OF SERVICE**

ALL DISCOMS	Generation					
	Demand			Energy		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Recovery Basis - Energy Sales (MU)	CoS - ₹/kWh
LT Cat I - Domestic	3,255.71	5,646.76	480.47	6,337.59	17,997.67	3.52
LT Cat II - Non-domestic	908.29	1,589.35	476.23	1,736.03	4,820.83	3.60
LT Cat III (A & B) - Industrial	346.67	647.67	446.04	985.39	2,696.35	3.65
LT Cat IV - Cottage Industries & Dhobighats	7.49	13.62	458.09	20.85	58.29	3.58
LT Cat V - Irrigation and Agriculture	587.51	6,006.34	81.51	6,171.33	18,225.90	3.39
LT Cat VI - Local Bodies, St. Lighting & PWS	424.74	778.70	454.53	742.40	2,074.81	3.58
LT Cat VII - General Purpose	42.04	80.14	437.16	75.80	210.05	3.61
LT Cat VIII - Temporary	0.75	1.55	402.00	1.46	3.94	3.69
HT						
HT Cat I - Industry - General (11 kV)	609.28	2,736.79	185.52	1,851.65	6,284.38	2.95
HT Cat I - Industry - General (33 kV)	888.83	2,187.52	338.60	2,773.00	9,671.52	2.87
HT Cat I - Industry - General (220/132 kV)	612.88	1,905.19	268.07	2,228.11	7,803.53	2.86
HT Cat II - Industry - Other (11 kV)	240.26	1,035.26	193.40	637.81	2,144.45	2.97
HT Cat II - Industry - Other (33 kV)	71.98	333.70	179.75	193.75	679.60	2.85
HT Cat II - Industry - Other (220/132 kV)	22.43	72.92	256.30	68.76	240.36	2.86
HT Cat IV - Irrigation & Agriculture (11 kV)	50.84	242.25	174.87	145.26	500.21	2.90
HT Cat IV - Irrigation & Agriculture (33 kV)	32.59	256.49	105.90	164.97	578.95	2.85
HT Cat V - Railway Traction (EHT)	258.34	638.42	337.22	529.85	1,848.33	2.87
HT Cat VI - Colony Consumption	52.09	111.00	391.06	94.10	323.28	2.91
HT Rural Co-operatives (11 kV)	87.73	249.33	293.21	347.01	1,214.13	2.86
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	2.65	6.37	346.85	7.49	25.16	2.98
Open Access - 33 kV	0.00	0.00	NA	0.00	0.00	NA
Open Access - 11 kV	0.00	0.00	NA	0.00	0.00	NA
<b>TOTAL</b>	<b>8,503.08</b>	<b>24,539.35</b>	<b>288.76</b>	<b>25,112.61</b>	<b>77,401.75</b>	<b>3.24</b>

**ANNEXURE - K<sub>5</sub>**  
**ALL DISCOMS: COST OF SERVICE**

ALL DISCOMS	Transmission - Inter-State			Transmission - Intra-State		
	Demand			Demand		
LT	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Contracts/NCP G-T interface (MW)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	57.71	5,646.76	8.52	187.53	5,646.76	27.68
LT Cat II - Non-domestic	16.34	1,589.35	8.57	53.05	1,589.35	27.82
LT Cat III (A & B) - Industrial	6.69	647.67	8.61	21.83	647.67	28.08
LT Cat IV - Cottage Industries & Dhobighats	0.17	13.62	10.49	0.56	13.62	34.30
LT Cat V - Irrigation and Agriculture	69.52	6,006.34	9.65	225.21	6,006.34	31.25
LT Cat VI - Local Bodies, St. Lighting & PWS	8.55	778.70	9.14	27.72	778.70	29.67
LT Cat VII - General Purpose	0.84	80.14	8.72	2.73	80.14	28.38
LT Cat VIII - Temporary	0.02	1.55	8.43	0.05	1.55	27.73
HT						
HT Cat I - Industry - General (11 kV)	85.85	2,736.79	26.14	278.71	2,736.79	84.87
HT Cat I - Industry - General (33 kV)	68.65	2,187.52	26.15	222.85	2,187.52	84.89
HT Cat I - Industry - General (220/132 kV)	59.67	1,905.19	26.10	193.95	1,905.19	84.83
HT Cat II - Industry - Other (11 kV)	32.53	1,035.26	26.19	105.47	1,035.26	84.90
HT Cat II - Industry - Other (33 kV)	10.53	333.70	26.29	34.02	333.70	84.96
HT Cat II - Industry - Other (220/132 kV)	2.28	72.92	26.11	7.42	72.92	84.79
HT Cat IV - Irrigation & Agriculture (11 kV)	3.84	242.25	13.21	12.33	242.25	42.40
HT Cat IV - Irrigation & Agriculture (33 kV)	2.17	256.49	7.05	6.98	256.49	22.68
HT Cat V - Railway Traction (EHT)	19.83	638.42	25.89	64.90	638.42	84.72
HT Cat VI - Colony Consumption	3.49	111.00	26.22	11.31	111.00	84.93
HT Rural Co-operatives (11 kV)	3.48	249.33	11.61	11.24	249.33	37.58
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.02	6.37	2.83	0.07	6.37	9.19
Open Access - 33 kV	0.00	0.00	NA	0.00	0.00	NA
Open Access - 11 kV	0.00	0.00	NA	0.00	0.00	NA
<b>TOTAL</b>	<b>452.18</b>	<b>24,539.35</b>	<b>15.36</b>	<b>1,467.934085</b>	<b>24,539.35</b>	<b>49.85</b>

**ANNEXURE - K<sub>5</sub>**  
**ALL DISCOMS: COST OF SERVICE**

ALL DISCOMS	Distribution			Retail Supply		
LT	Demand			Energy		
	Cost (₹ Crores)	Rate Basis - Contracts/NCP T-D interface (MW)	CoS - ₹/kVA/ Month	Cost (₹ Crores)	Rate Basis - Energy Sales (MU)	CoS - ₹/kVA/ Month
LT Cat I - Domestic	1,453.02	4,975.16	243.38	108.90	17,998	0.06
LT Cat II - Non-domestic	390.20	1,367.61	237.76	29.80	4,821	0.06
LT Cat III (A & B) - Industrial	160.04	543.08	245.57	17.00	2,696	0.06
LT Cat IV - Cottage Industries & Dhobighats	3.57	11.78	252.37	0.35	58	0.06
LT Cat V - Irrigation and Agriculture	1,603.08	5,528.72	241.63	104.02	18,226	0.06
LT Cat VI - Local Bodies, St. Lighting & PWS	193.41	660.36	244.07	12.64	2,075	0.06
LT Cat VII - General Purpose	20.12	67.51	248.40	1.30	210	0.06
LT Cat VIII - Temporary	0.40	1.31	252.11	0.03	4	0.06
<b>HT</b>						
HT Cat I - Industry - General (11 kV)	455.53	2,619.11	144.94	32.01	6,284	0.05
HT Cat I - Industry - General (33 kV)	99.15	2,093.45	39.47	47.91	9,672	0.05
HT Cat I - Industry - General (220/132 kV)	0.00	0.00	NA	38.79	7,804	0.05
HT Cat II - Industry - Other (11 kV)	171.35	990.74	144.12	11.02	2,144	0.05
HT Cat II - Industry - Other (33 kV)	15.18	319.35	39.60	3.36	680	0.05
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	NA	1.23	240	0.05
HT Cat IV - Irrigation & Agriculture (11 kV)	36.64	229.18	133.21	2.29	500	0.05
HT Cat IV - Irrigation & Agriculture (33 kV)	10.51	239.11	36.64	2.89	579	0.05
HT Cat V - Railway Traction (EHT)	0.00	0.00	NA	9.11	1,848	0.05
HT Cat VI - Colony Consumption	18.67	108.01	144.06	1.55	323	0.05
HT Rural Co-operatives (11 kV)	41.82	236.77	147.20	5.67	1,214	0.05
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	1.01	5.85	143.47	0.14	25	0.05
Open Access - 33 kV	0.00	0.00	NA	0.00	0	NA
Open Access - 11 kV	0.00	0.00	NA	0.00	0	NA
<b>TOTAL</b>	<b>4,673.67</b>	<b>19,997.10</b>	<b>194.76</b>	<b>430.03</b>	<b>77,402</b>	<b>0.06</b>

**ANNEXURE - K<sub>5</sub>**  
**ALL DISCOMS: COST OF SERVICE**

ALL DISCOMS	Cost Allocation (₹ Crores)			
LT	Demand - G	Demand - T	Demand - D	Energy
	₹ Crores			
LT Cat I - Domestic	3,255.71	245.24	1,453.02	6,446.49
LT Cat II - Non-domestic	908.29	69.39	390.20	1,765.83
LT Cat III (A & B) - Industrial	346.67	28.52	160.04	1,002.39
LT Cat IV - Cottage Industries & Dhobighats	7.49	0.73	3.57	21.20
LT Cat V - Irrigation and Agriculture	587.51	294.73	1,603.08	6,275.36
LT Cat VI - Local Bodies, St. Lighting & PWS	424.74	36.27	193.41	755.04
LT Cat VII - General Purpose	42.04	3.57	20.12	77.11
LT Cat VIII - Temporary	0.75	0.07	0.40	1.48
HT				
HT Cat I - Industry - General (11 kV)	609.28	364.57	455.53	1,883.66
HT Cat I - Industry - General (33 kV)	888.83	291.50	99.15	2,820.91
HT Cat I - Industry - General (220/132 kV)	612.88	253.61	0.00	2,266.90
HT Cat II - Industry - Other (11 kV)	240.26	138.00	171.35	648.83
HT Cat II - Industry - Other (33 kV)	71.98	44.55	15.18	197.11
HT Cat II - Industry - Other (220/132 kV)	22.43	9.70	0.00	69.99
HT Cat IV - Irrigation & Agriculture (11 kV)	50.84	16.17	36.64	147.56
HT Cat IV - Irrigation & Agriculture (33 kV)	32.59	9.15	10.51	167.86
HT Cat V - Railway Traction (EHT)	258.34	84.73	0.00	538.96
HT Cat VI - Colony Consumption	52.09	14.81	18.67	95.65
HT Rural Co-operatives (11 kV)	87.73	14.72	41.82	352.68
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	2.65	0.09	1.01	7.63
Open Access - 33 kV	0.00	0.00	0.00	0.00
Open Access - 11 kV	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>8,503.08</b>	<b>1,920.11</b>	<b>4,673.67</b>	<b>25,542.64</b>

**ANNEXURE - K<sub>5</sub>**  
**ALL DISCOMS: COST OF SERVICE**

ALL DISCOMS	Cost Allocation (₹ Cr.)		Total Cost	Sales	Per unit Cost
LT	Demand	Energy			Total
	₹ Crores		₹ Crores	MUs	₹/Unit
LT Cat I - Domestic	4,953.97	6,446.49	11,400.46	17,997.67	6.33
LT Cat II - Non-domestic	1,367.87	1,765.83	3,133.70	4,820.83	6.5
LT Cat III (A & B) - Industrial	535.22	1,002.39	1,537.61	2,696.35	5.7
LT Cat IV - Cottage Industries & Dhobighats	11.79	21.2	32.99	58.29	5.66
LT Cat V - Irrigation and Agriculture	2,485.32	6,275.36	8,760.67	18,225.90	4.81
LT Cat VI - Local Bodies, St. Lighting & PWS	654.41	755.04	1,409.45	2,074.81	6.79
LT Cat VII - General Purpose	65.73	77.11	142.84	210.05	6.8
LT Cat VIII - Temporary	1.21	1.48	2.69	3.94	6.83
HT					
HT Cat I - Industry - General (11 kV)	1,429.37	1,883.66	3,313.03	6,284.38	5.27
HT Cat I - Industry - General (33 kV)	1,279.49	2,820.91	4,100.40	9,671.52	4.24
HT Cat I - Industry - General (220/132 kV)	866.49	2,266.90	3,133.39	7,803.53	4.02
HT Cat II - Industry - Other (11 kV)	549.61	648.83	1,198.44	2,144.45	5.59
HT Cat II - Industry - Other (33 kV)	131.7	197.11	328.81	679.6	4.84
HT Cat II - Industry - Other (220/132 kV)	32.13	69.99	102.12	240.36	4.25
HT Cat IV - Irrigation & Agriculture (11 kV)	103.64	147.56	251.2	500.21	4.37
HT Cat IV - Irrigation & Agriculture (33 kV)	52.26	167.86	220.12	578.95	4.37
HT Cat V - Railway Traction (EHT)	343.08	538.96	882.03	1,848.33	4.77
HT Cat VI - Colony Consumption	85.57	95.65	181.22	323.28	5.61
HT Rural Co-operatives (11 kV)	144.27	352.68	496.95	1,214.13	4.09
HT Rural Co-operatives (33 kV)	0	0	0	0	0
HT Temporary	3.75	7.63	11.37	25.16	4.52
Open Access - 33 kV	0	0	0	0	0
Open Access - 11 kV	0	0	0	0	0
TOTAL	15,096.86	25,542.64	40,639.50	77,401.75	5.25