

**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
HYDERABAD**

Present

Sri A. Raghotham Rao, Chairman
Sri R. Radha Kishen, Member
Sri C.R.Sekhar Reddy, Member

Dated: 30-03-2011

O.P No: 02 of 2011

Central Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 03 of 2011

Eastern Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 04 of 2011

Southern Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 05 of 2011

Northern Power Distribution Company of Andhra Pradesh Limited

...Applicants

These came up for public hearings before several consumers, the representatives of various consumer organizations, political parties and other stakeholders, on 26.02.2011 at Kadapa (SPDCL-OP No: 04 of 2011), on 28.02.2011 at Hyderabad (CPDCL-OP No: 02 of 2011); on 01.03.2011 at Hyderabad (NPDCL - OP No: 05 of 2011) and on 04.03.2011 at Srikakulam (EPDCL-OP No: 03 of 2011); and having stood over for consideration till this day, the Commission passed the following common order.

ORDER

CHAPTER-I INTRODUCTION

General

1. The four 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 Central Power Distribution Company of A.P Limited (hereinafter, 'APCPDCL' or 'CPDCL'), the Northern Power Distribution Company of A.P Limited (hereinafter, 'APNPDCL' or 'NPDCL') and the Southern Power Distribution Company of A.P Limited (hereinafter, 'APSPDCL' or 'SPDCL'), are the holders of Distribution and Retail Supply Licenses (Licenses No.12/2000, 13/2000, 14/2000 and 15/2000, respectively) to carry out the distribution business and the retail supply businesses in their respective areas of Andhra Pradesh for a period of 30 years from 01-04-2001.

Regulation for Determination of Tariff

2. The Andhra Pradesh Electricity Regulatory Commission (APEREC or 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.
3. Regulation 4 of 2005 introduced Multi Year tariff framework and accordingly, each distribution licensee has to make the filings for its annual revenue requirement (ARR) along with its proposals for tariff (PFT) with the Commission for determination of tariff for (a) Wheeling (Wheeling Tariff henceforth) and (b) Retail Sale of Electricity (Retail Supply Tariff henceforth) for a period of 5 years

(called Control period).The second control period covers the years 2009-10 to 2013-2014.The regulation also stipulated the methodology and formats in which the information is to be furnished for determination of tariff.

Filings for Determination of Retail Supply Tariff on Annual Basis

4. The wheeling tariffs were determined for the control period of 5 years, namely 2009 to 2014. 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 scheme and instead sought the approval of the commission to file ARR and FPT on annual basis for the years 2009-10 & 2010-11. The same were permitted by the Commission and accordingly the filings were made and the retail supply tariff was determined for the years FY 2009-2010 and FY 2010-11.
5. For the year under consideration for financial year 2011-12, the Licensees referred to the continued uncertainties surrounding the lift irrigation schemes, policy uncertainties and the power purchase agreements that are pending finalisation with a few generating stations. It was stated that in view of these circumstances, a reasonable prediction of their revenue requirement and sales cannot be made for the balance years till 2013-2014 to enable them to file ARR and tariff proposals for the remaining 3 years of control period at one go. They therefore sought for the permission of the Commission

to allow them to submit their ARR and Tariff proposals for FY2011-12 on annual basis. The Commission permitted the Licensees to do so.

Delay in filing of ARR

6. The Licensees were to file their annual ARR and tariff proposals for the year 2011-2012 by 30th November 2010 so that 120 days are available to the Commission as per statute to determine the tariff for the FY2011-12 commencing from 01-04-2011. The Licensees, however could not file the ARR and tariff proposals by 30th Nov 2010 due to a number of uncertainties and they sought extensions of time from the Commission.

Filing of Tariff Proposals

7. The Licensees filed the Aggregate Revenue Requirement (ARR) and tariff proposals for their Retail Supply Business for FY2011-2012 on 07-01-2011.

Summary of filings

Revenue requirement and revenue deficit

8. The four Licensees (CPDCL, EPDCL, NPDCL and SPDCL) filed their respective estimates of Aggregate Revenue Requirement (ARR) for FY2011-2012. The ARR of each Licensee indicates the estimate of all the expenses that are required to be incurred to supply power to its consumers by that Licensee. All these expenses constitute the retail supply cost which is expected to be recovered through tariff proposals. Thus the estimated ARR would be a basis for computation of the tariffs that would be levied on the retail consumers during FY 2011-12.

9. All the four Licensees, based on estimates of their respective ARR and revenues from different consumer categories, arrived at a revenue deficit i.e. a shortage of the revenue to meet the estimated ARR, for FY2011-12. They made no mention about the ways and means to fill the revenue gap estimated by them in the filings for FY2010-11. The task of filling up the revenue deficit / gap was left to the Commission. The details are given in Table 1.

Table 1 :Revenue requirement and deficit as filed by DISCOMS (Rs.Cr.)

| DESCRIPTION | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--|----------|---------|----------|----------|----------|
| a. Aggregate Revenue Requirement | 12246.00 | 4807.84 | 4571.19 | 6662.72 | 28287.74 |
| b. Revenue from Current Tariffs(Net of incentives) | 9950.06 | 3910.79 | 2112.66 | 4965.48 | 20939.00 |
| c. Non - Tariff Income | 70.97 | 19.57 | 13.82 | 146.84 | 251.20 |
| d. Revenue from Trading | 148.90 | 83.46 | 316.28 | 94.53 | 643.17 |
| e. Total Revenue (b+c+d) | 10169.93 | 4013.82 | 2442.76 | 5206.85 | 21833.37 |
| f. Revenue Deficit(-) / Surplus(+) at Current Tariff | -2076.07 | -794.01 | -2128.43 | -1455.87 | -6454.38 |
| g. Additional Revenue through proposed tariffs | 263.10 | 86.70 | 31.18 | 115.55 | 496.53 |
| i.External subsidy available / contracted | | | | | 0.00 |
| j.Any other means of adjustments | | | | | 0.00 |
| k. Net Deficit / Surplus | -1812.97 | -707.31 | -2097.25 | -1340.32 | -5957.85 |

Tariff proposals filed

10. The Licensees proposed to levy certain new charges, provide incentives and modify the terms and conditions in levying the tariffs for FY2011-12. These are briefed below:
- a) Introduction of time of season tariff for LT-II and HT consumers: The DISCOMS proposed that during the months of February, March, April and May of every year, a higher tariff be charged for these consumers. The proposed hike is 75 paise/unit for HT consumers and 50 paise/unit for the LT consumers. The proposed tariffs are given in Table 2

Table 2: Time of season-Tariff proposal

| Category of consumer | Season tariff proposed during 4 months-Feb, March, April, May | | Non season tariff proposed for the remaining 8 months June to January | |
|--------------------------------|---|---------------|---|---------------|
| LT-II-above 100 units/pm | 700 paise /unit | | 650 paise / unit | |
| LT-IIB-advertisement hoardings | 750 paise /unit | | 750 paise /unit | |
| LT-III category | 463 paise /unit | | 413 paise/unit | |
| Category of consumer | Season tariff- 4 months- February-- May | | Off season tariff- 8 months-- June-- January | |
| HT-IA | Voltage | Tariff | Voltage | Tariff |
| | 11kV | 427p/unit | 11kV | 352p/unit |
| | 33kV | 400p/unit | 33kV | 325p/unit |
| | 132kV | 372p/unit | 132kV | 297p/unit |
| HT-I(B) | Voltage | Tariff | Voltage | Tariff |
| | 11kV | 400p/unit | 11kV | 325p/unit |
| | 33kV | 355p/unit | 33kV | 280p/unit |
| | 132kV | 340p/unit | 132kV | 265p/unit |
| HT-II | Voltage | Tariff | Voltage | Tariff |
| | 11Kv | 555p/unit | 11kV | 480p/unit |
| | 33kV | 505p/unit | 33kV | 430p/unit |
| | 132kV | 485p/unit | 132kV | 410p/unit |
| HT-V | 132kV | 520paise/unit | 132kV | 445paise/unit |

- b) The DISCOMS proposed an incentive for HT-IA consumers by way of reduced tariff during 12AM to 4AM every day during the off season period of 8 months. The reduction proposed is 50 paise/unit. Thus the HT-I A consumers are now proposed to have 3 tariffs operating on them in a day:-

Table 3 Tariffs in paise/unit for corresponding supply voltages :

| Number of Hours | Time-slots | 11 kV | 33 kV | 132 kV |
|-----------------|-------------------------------|-------|-------|--------|
| 16 hrs | 4 AM to 6 PM & 10 PM to 12 AM | 352 | 325 | 297 |
| 4 hrs | 6 PM to 10 PM | 452 | 425 | 397 |
| 4 hrs | 12 AM to 4 AM | 302 | 275 | 247 |

The Time of Day Tariff (peak rate) was introduced w.e.f. 01/08/2010 and the reduction at (3) above is now proposed in the tariff filings for FY 2011-12. The revenue impact of this incentive is stated to be as per table 4 below :-

Table 4 Revenue impact of HT ToD incentive

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--------------------|-------|-------|-------|-------|---------------|
| REVENUE LOSS (Cr.) | 71.22 | 17.41 | 6.48 | 16.97 | 112.08 |

- c) A new category for advertisement hoardings as LT-IIB with a special tariff of Rs 7.50/unit
- d) Reduction in minimum charges for LT-I consumers with load above 250 W from Rs 50/- to Rs 25/-. The revenue impact of such a measure is given in Table 5.

Table 5 Revenue impact in reduction in minimum charges

| DISCOM | REVENUE LOSS (Cr.) |
|--------------|--------------------|
| CPDCL | 20.34 |
| EPDCL | 20.00 |
| NPDCL | 7.50 |
| SPDCL | 18.34 |
| TOTAL | 66.18 |

- e) Introduction of Voltage wise differential tariff for HT-IB consumer (ferro alloy units).
- f) Introduction of kVAh based billing and removal of power factor surcharge for HT and LT Consumers.
- g) Increase of maximum contract load for Rice mills presently under LT-III category from 75 HP to 100 HP.
- h) Computing distribution losses on Month on month basis and considering the same in computation of power purchase requirement.
- i) Provisional collection of FSA Charges.(25p/unit): A levy of 25paise /unit as adhoc FSA on non agricultural consumers was proposed till such time as the Commission passes the orders on the FSA claims made for FY 2009-10 and FY 2010-11(2 quarters).
- j) Request for determination of cross subsidy surcharge for FY2011-12.
- k) NPDCL's proposal for Declaration of seasonal period under seasonal industries of HT and LT (page 64 of NPDCL ARR Filing).

Processing of the proposals filed by the DISCOMS

- 11. The Commission initiated the tariff determination process by accepting the ARR and tariff proposals filed and assigned O.P numbers as under:

O.P. No 02 of 2011 for APCPDCL
O.P No 03 of 2011 for APEPDCL
O.P. No 04 of 2011 for APSPDCL
O.P.No 05 of 2011 for APNPDCL

Notification calling for objections/suggestions

12. The Licensees were directed to issue public notices, in two English and two Telugu newspapers, on 12.01.2011, informing the general public that the Licensees have filed before the Commission their ARR/Tariff proposals in respect of their retail sale of electricity for FY 2011-12 and that the 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 Superintending Engineers in charge of Operation Circles. This was to facilitate inspection/perusal/purchase of the tariff proposals and filings by interested persons. Suggestions/objections to the ARR and tariff proposals were to be filed by interested persons/organisations so as to reach the Licensees by 14th of February,2011. A copy was also required to be marked to APERC for record.

Objections/suggestions received

13. On publication of the tariff proposals, 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 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 the Annexure-C. The

Licenseses were also directed to arrange their written replies to all the objectors before the scheduled public hearing of the concerned Licensee. The replies were also to be posted on their respective web sites and the copies of these replies were to be made available to the Commission also.

14. The 'schedule of Public hearings' is given in Table-6 in next paragraph and the same was informed to the Licensees, all the Objectors, Government of Andhra Pradesh and was also adequately publicized through press release.

Public Hearings

15. The Commission organised a Public hearing in case of each Licensee as detailed in Table-6. During the hearings, the Licensees (DISCOMS) made a brief presentation on their respective filings and then the Commission heard all 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. Thus, altogether 69 objectors were heard.

Statement by Government of Andhra Pradesh

16. The Govt of Andhra Pradesh was also intimated and was invited to the Public hearings. The Officer on special duty, standing in for the Principal Secretary, Energy, Govt of Andhra Pradesh, made a statement before the Commission during the Hearing on

04/03/2011 at Srikakulam, expressing the views of Government. Essentially, the Govt reiterated its commitment to provide for free power to the Agriculture sector / farmers and give subsidy to the Licensees for this purpose as required u/s 65 of the Electricity Act. Chapter-VII of this tariff order gives the full text of the Govt statement.

Table 6 Programme of Public Hearings on ARRs/Tariff Filings by Licensees

| Date | Place | Venue | Licensee | Time |
|------------|------------|--|----------|--|
| 26.02.2011 | Kadapa | Zilla Praja Parishad Meeting Hall, Kadapa | APSPDCL | 10:30 AM to 1:30 PM & 02:30 PM to 5:00PM |
| 28.02.2011 | Hyderabad | Institute of Engineers, Khairathabad, Hyderabad | APCPDCL | |
| 01.03.2011 | Hyderabad | APERC Court Hall, Singareni Bhavan, Red Hills, Hyderabad | APNPDCL | |
| 04.03.2011 | Srikakulam | New Meeting Hall, Zilla Praja Parishad, Srikakulam | APEPDCL | |

Table 7 Number of Objections / Suggestions Received

| Licensee | No of registered Objectors who filed Objections* (within due date) | No of registered Objectors who attended Hearing | No of un-registered Objectors (who did not file any objections in advance) |
|--|--|---|--|
| APCPDCL | 26 | 12 | 6 |
| APNPDCL | 20 | 5 | 3 |
| APEPDCL | 33 | 15 | 12 |
| APSPDCL | 60 | 10 | 6 |
| Total | 139 | 42 | 27 |
| *includes 18 Nos of Objectors, who filed objections against ARR filings of all Licensees | | | |

Meeting with State Advisory Committee

- As part of the tariff exercise, a meeting of the State advisory committee (SAC) was held on 02-02-2011 to elicit their views on the

ARR/Tariff proposals of Licensees. The suggestions made by the members of SAC were also considered by the Commission while finalizing the Tariff Order.

Treatment of objections/suggestions received

18. It is seen that most of the objections can be categorised as to falling in to one of these broad categories:-

GROUP 1 :-Views expressed and objections raised by the consumers with reference to the tariff and ARR proposals filed by the Licensees.

GROUP 2:- Specific requests of individual organisations/ consumers/ groups for categorisation / re categorisation form 2nd group. Representations for modifications of load limits within an existing category, are also considered here.

GROUP 3:- This group covers the many suggestions and views expressing concern over the financial health of DISCOMS, the Power purchase costs and other macro issues.

GROUP 4:- This category covers issues relating to agricultural consumers including Issues like supply hours to farmers, supply to lift irrigation schemes under HT-IV B category and accident compensation issues.

GROUP 5:- Issues like supply in rural areas, performance of DISCOMS, Safety concerns, energy conservation measures and standards of performance etc .

Group 6:- Other miscellaneous issues and issues raised by specific consumers which, for the sake of convenience are dealt at one place, are placed in this group.

19. This year, the commission has decided to deal with the objections in various chapters while dealing with the issue/topic under consideration. The gist of objections/suggestions, the gist of the replies given by the Licensees along with the views and directions of Commission, wherever required, are also given at appropriate places.

Objection/Suggestion on Filing Delays

20. Sri BV Raghavulu and Sri M Venugopala Rao observed that the delay had adverse impact in several ways. Referring to 2010-11, they stated that it resulted in loss of revenue that should accrue to the DISCOMs on account of tariff revision for the period of four months, as the Commission could issue its tariff order on 22nd July, 2010, which came into effect from August 2010 only and it also resulted in delay by the DISCOMs in sending their replies to the suggestions and objections filed by objectors and due to which the objectors are denied the opportunity to study the replies and prepare further detailed submissions during public hearings.

They also stated that it has become a practice to some of the DISCOMs to hand over their replies to objectors in the public hearing itself and the Commission may direct the DISCOMs to send their replies to objectors at least one week in advance before the scheduled public hearings.

Replies of Licensees: The reasons for delayed filings were set out as under:-

- (a) the licensees needed more time to project a realistic estimate for energy consumption by the Lift Irrigation schemes as a number of Lift-irrigation projects are expected to be commissioned in 2011-12
- (b) the Tariff Order for Central Generating Stations (CGS) is currently awaited from CERC; the last Tariff Order issued by CERC was for FY 2008-09; since there is a significant variation in the costs since FY 2008-09, the Licensees required more time to estimate the total

power purchase costs for the units purchased from Central Generating Stations (c) the licensees required more time to ascertain the energy availability from new stations of APGENCO and CGS to project a reliable estimate; however, it is expected that the Tariff Order for FY 2011-12 would be issued by the Hon'ble Commission before end of March 2011 and hence, it is expected that there would be no impact on the DISCOMs due to this delay (All LICENSEES) .

Commission's views: The tariff order for FY 2011-12 is being issued ahead of commencement of Financial year i.e, 01-04-2011. The Discoms should endeavour to give their replies to the objections atleast a week ahead of public hearings to enable the objectors to study the same and participate effectively in the public 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 the spirit and essence of objections/suggestions is captured, all the views and opinions expressed and objections/suggestions made by all the consumers / objectors may not be reflected.
22. In the subsequent chapters, the Commission has discussed and finalised the issues as under:-

- Chapter 2 :-Revenue Requirement.
- Chapter 3:- Power purchase cost.
- Chapter 4:-Revenue and Revenue gap
- Chapter 5 :-Tariff related issues
- Chapter 6 :-General issues
- Chapter 7 :-Statement of Government of Andhra Pradesh
- Chapter 8 :-Tariff determination
- Chapter 9:- Tariff schedule

CHAPTER-II REVENUE REQUIREMENT FOR FY 2011-12

Revenue Requirement for FY2011-12 as per Filings

23. The four distribution and retail supply licensees (Licensees) filed the Aggregate Revenue Requirement (ARR), the revenue required to meet the supply cost, for FY2011-12 as part of the tariff filings. The ARR filed is the basis for determination of retail supply tariff by the Commission to recover the cost from consumers.
24. The Commission has examined the ARR and tariff proposals filed, called for further information from the Licensees and also considered the objections raised by different persons through written as well as oral representations made during the public hearings conducted by the Commission. The Commission, in this chapter, has dealt with the issues relating to determination of aggregate revenue requirement (ARR). The objections/suggestions, if any, which have a direct bearing on the costs, are also considered here itself.
25. The revenue requirement is to meet the following expenses:-
 - a) Power purchase cost: This is around 75% of total expenditure. The transmission and distribution network losses are also factored in computing this item. The permissible loss percentages are adopted from the Commission's Multi Year tariff order for the 2nd control period 2009-2014.
 - b) Transmission cost
 - c) Distribution cost
 - d) Charges payable to the Central load dispatch centre (ULDC) and State load dispatch centres(SLDC)

- e) Annual interest cost on consumer security deposits held by the DISCOM
 - f) The supply margins
 - g) Outgoings in the form of incentives/reduction of charges etc;
26. The DISCOMS have however considered all such outgoings in the tariff proposals itself and so are dealt by the Commission too there itself.

Power purchase cost as per filings

27. The main component of the revenue requirement is the power purchase cost. The power required to be bought/purchased, is in turn governed by two key parameters—(a) Estimate of expected sales during the year (b) Estimate of losses that are likely to arise in transmission and distribution.
28. The Licensees forecasted the sales volume for different consumer categories for FY2011-12. Based on the sales volume forecasted and applicable technical loss reduction target for FY2011-12 as approved by the Commission, the quantity of power to be procured has been arrived at. The Licensees then examined the available power supply sources with each of them and market sources, computed the total power purchase cost for FY2011-12. The sales estimated, losses and power purchase requirement estimated by each licensee are given in Table 8.

Table 8 Sales Forecast, Losses and Power Purchase as per Filings

| Item | CPDCL | EPDCL | NPDCCL | SPDCL | Total |
|------------------------------|--------|-------|--------|-------|-------|
| Sales Forecasted, MU | 33,153 | 12446 | 11064 | 16972 | 73635 |
| Total Losses, MU | 6,584 | 1,869 | 2,179 | 3115 | 13747 |
| Power Purchase, MU (1+2) | 39,737 | 14315 | 13243 | 20087 | 87382 |
| Power Purchase Cost, Rs. Cr. | 10,087 | 3,855 | 3,606 | 5,224 | 22772 |

Other costs including the Network cost as per filings

29. The Licensees adopted the network cost (transmission, distribution network and ULDC and SLDC cost) for FY2011-12 as per the MYT order issued by the Commission for the second MYT control period for FY2009-10 to FY2013-14. In addition, the Licensees computed the interest cost on consumer security deposit held by them as per the Regulation 4 of 2005, supply margin allowed for retail supply business as per previous tariff orders and estimated other cost as part of ARR filings.

ARR-Revenue requirement as filed

30. The total of the above two, namely, Power purchase cost and other costs give the revenue requirement as tabled at Table 9.

Table 9 Revenue Requirement as per Filings for FY2011-12(Rs. Cr.)

| ARR Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--|----------|---------|---------|---------|----------|
| Distribution Cost | 1367.44 | 665.75 | 702.38 | 1040.00 | 3775.57 |
| Power Purchase Cost | 10087.47 | 3854.53 | 3606.31 | 5223.98 | 22772.29 |
| Transmission charges | 498.87 | 176.62 | 171.06 | 250.96 | 1097.51 |
| SLDC Charges | 16.03 | 5.68 | 5.50 | 8.07 | 35.28 |
| PGCIL Charges | 162.78 | 56.37 | 56.62 | 80.64 | 356.41 |
| ULDC Charges | 12.76 | 3.85 | 3.86 | 4.24 | 24.71 |
| Interest on Consumer Security Deposits | 90.29 | 40.11 | 18.14 | 41.22 | 189.76 |
| Supply Margin | 10.35 | 4.74 | 6.73 | 13.61 | 35.43 |
| Others expenses | 0.00 | 0.19 | 0.60 | 0.00 | 0.79 |
| Revenue requirement | 12246.00 | 4807.84 | 4571.19 | 6662.72 | 28287.75 |

Power Purchase cost and requirement

31. The estimation of power purchase cost in turn needs the finalisation of sales and assumed losses that are likely to arise in the transmission and distribution. These aspects are now dealt with.

Application of Monthly Loss Figures

32. On losses, the DISCOMS have proposed a change in the method of factoring losses to estimate month wise power purchase requirement. This proposal was part of their ARR filings and is now dealt with.

Proposal: The Licensees requested for application of month wise losses subject to overall restriction of losses as approved by the Commission in MYT Order for FY2011.12. The Licensees' view is that higher the energy handled, higher loss percentage and vice versa. Application of uniform loss percentages across months results in denying opportunity for Licensees to purchase more energy from the market during the periods where volume of sales and purchases are higher.

Objections/Suggestions: Neither consumers nor objectors have expressed a view on Licensee request for application of month wise loss percentages instead of annual loss percentages.

Commission's views: As a measure of efficiency enhancement on the part of DISCOMS, the Commission has adopted the voltage-wise (year-wise weighted average percentage) losses in the MYT Orders, which are also used as percentage losses as one part of wheeling tariffs applicable to Open Access users. Hence, the Commission feels it more appropriate to continue the present system of losses prescribed in the MYT Order for the year 2011-12. As the DISCOMS have raised a new concept of voltage-wise month-wise variations in percentage loss computations, this can be approved after a review of MYT losses. In the meanwhile, the Commission directs the DISCOMS to:-

Submit voltage-wise month-wise percentage loss computations at the end of every month during FY 2011-12, taking actual load flow in the Transmission and Distribution network in the format already prescribed by the Commission, so also Agricultural Consumption and losses at each voltage level as a percentage of total input to the AP Grid for further examination of the issue by the Commission in the future years.

Sales to Agriculture

33. The sales estimated for agriculture sector for LT-V category as well as HT-IV(A) and HT-IV(B) category are considered first. The estimates of LT-V category sales are examined in detail since it is estimated based on sampling of DTRs (distribution transformers) instead of actual metering at each consumer end. The HT-IV(A) and HT-IV(B) category agriculture sales are also assessed in terms of potential, readiness of lift irrigation projects and with reference to sale quantities that were approved last year as against actual estimated sales made in the last year.

Sales Volume to LT V: Agriculture

34. The four Licensees estimated the agricultural consumption for FY2010-11 based on meter readings available from Low Voltage (LV) side of agricultural Distribution Transformers (DTRs) on sample basis and agricultural pump set census carried out in early 2000s. The procedure adopted involves two steps; (a) computing the Specific consumption per HP (kWh/HP) from sample metered DTRs, and (b) extrapolation of this specific consumption on pump set census to get company wide consumption estimate. They then reckoned the likely number of new agricultural connections that may be released.

35. The proposed sales volume to this consumer category by each of the Licensee is given in Table 10.

Table 10 Proposed sales volume to LT V - Agriculture(MU)

| Sales to LT Aricultlure | CPDCL | EPDCL | NPDCCL | SPDCL | Total |
|-------------------------|---------|---------|---------|---------|----------|
| Proposed by Licensee | 8122.13 | 1916.11 | 4154.22 | 4393.44 | 18585.90 |

Objections/Suggestions: Dr M Thimma Reddy and Shri Gade Diwakar observed that there is no uniformity among the DISCOMs in explaining the estimation of agriculture consumption. M/s Trion properties and M/s Raheja IT Park (Hyd) pvt ltd, also expressed that the DISCOM's estimates are not scientific. They also stated that the DISCOM is carpeting some quantum of losses on the account of agriculture consumption which is heavily cross subsidised and externally subsidised. They requested that the Commission should examine and properly regulate these claims.

Sri.K.Sankar Reddy, stated that all the HVDS distribution transformers should be metered and agricultural consumption should be accounted.

Several other consumers and other stakeholders have raised the concern that the estimate of sales is on higher side in view of (a) The licensees do not supply electricity continuously for seven hours throughout the year, (b) All the pumps would not be functioning all the time for complete 7 hours supply and Licensees estimate the consumption for all 7 hours (c) the data is faulty as observed by them and by the Commission in previous tariff orders, and (d) Licensees are masking the distribution losses in the form of higher agricultural

consumption estimates. According to the objectors, the agricultural consumption has to be estimated correctly with appropriate method and information.

Commission's views: The Licensees have verifiable data of only total LT input and total metered sales. The difference comprises of agricultural sales and losses. Breaking up of this "difference" between losses and agricultural sales is imprecise as the agriculture sales are arrived at by a process of estimation. The issue therefore is, to what extent the consumption shown can be validated? In absence of metering and actual data, how valid is the estimate made by the DISCOMS in their filings?

The Commission had already issued an alternate methodology (formulated by Indian Statistical Institute) to measure agricultural consumption on the request of APTRANSCO and Licensees. The Commission notes that the Licensees are unable to put the new methodology suggested by M/S ISI, Hyderabad and approved by the Commission based on DTR meter readings in use. However, progress in metering DTRs is mentioned by the Licensees. The Commission expects that the consumption estimates based on new methodology would be available at the earliest. The Commission directs that:-

The Licensees shall immediately report the progress on implementation of new methodology and also make a presentation to the Commission on or before May 31, 2011. The progress report on implementation of new methodology shall be put on their respective Licensee websites and these reports should be periodically updated. Till the time the new methodology is implemented, the existing method of estimating consumption based on DTR meter readings shall be continued.

The projected sales volume for the category- LT-V: Agricultural consumers for FY2011-12 is significantly higher than the volume approved by the Commission for FY2010-11. The Licensees requested for approval of the estimated consumption volume in view of impending release of new services under both regular and tatkal schemes as communicated by the Government of Andhra Pradesh.

In the absence of reliable information on consumption estimates submitted by the Licensees and the new agricultural connections to be added during FY2011-12, the Commission decided to approve the sales volume at 9 percent higher than the volume approved by the Commission for FY2010-11. It is to be noted that the sales volume approved for FY2010-11 is higher by 8 percent over the sales volume approved for FY2009-10. The Licensees shall be in a comfortable position to meet the energy demands from agricultural consumers with the increase in agricultural volumes approved for FY2010-11 and FY2011-12. The details of the sales approved by the Commission for FY2011-12 are given in Table 11.

Table 11 Sales Volume to LT-V Agriculture (MU.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|----------------------------|---------|---------|---------|---------|----------|
| Proposed by Licensee | 8122.13 | 1916.11 | 4154.22 | 4393.44 | 18585.90 |
| Approved by the Commission | 7339.82 | 1558.81 | 3596.07 | 4074.52 | 16569.23 |

While approving the sales volume for this category of consumers, the Commission feels that while 100% metering is most desirable, it will still take some time to attain 100% metering and in the meanwhile, alternate mechanisms for best approximation and estimation should be implemented at the earliest.

Sales Volume to HT-IV: Agriculture

36. There are 2 categories at HT Supply, HT-IV(A)- Lift irrigation schemes managed by Govt –cost borne by Govt. HT-IV(B)- Agriculture- Normally, the other lift irrigation schemes that are presently not under Govt management but are managed by farmer's co-operatives, are considered here. Quantity of Power consumed by HT-IV(B) category is about 3-5% only. The balance 97%-95% consumption is by HT-IVA category. These consumers are metered and the actual consumption can be measured. The forecast of sales is based on projects that are being undertaken.

Proposal: The licensees estimated the sales volume to HT-IV: Lift Irrigation Schemes (LIS) and Agriculture based on historical consumption of existing consumers and new LIS under various stages of implementation.

Commission's views: The Commission, upon the examination of the filings made by the Licensees, found that the sales volume projected for FY2011-12 is significantly higher compared with the sales volume approved and also the actual sales volume for FY2010-11. Further, the increase in sales has been attributed by Licensees on account of new LIS.

Based on historical evidence with regard to projections v/s actual consumption and reckoning the fact that LIS pay tariff at Rs.2.60/kWh, approval of higher sales volume for these consumers involves risks in the following manner;

- a) If the approved sales volume is not realised, the estimated revenue based on tariffs will not realise to Licensees.

Accordingly, the Licensees would suffer from less revenue realisation.

- b) Arrangement of higher sales volume involves approving higher power purchase cost with an uncertainty in the corresponding sales volume.

Considering the forecasts, approved volumes and actual sales for several past years, it is concluded that projects which are contemplated by Licensees as potential consumers during last year, have not fully come up for implementation and the estimated actual sales are way below the approved quantities. For example, for FY2009-10, the Commission approved the sales volume at 1024 MU whereas the estimated actual sales for the full FY2009-10 were 623 MU, for the four Licensees. For FY 2010-11, the Commission approved sales were 1000 MU, but, sales for the first 6 months of the year as per ARR filings were only 224.95MU.

Table 12 Sales to HT Agriculture Category(MU)

| Year | CPDCL | NPDCL | SPDCL | EPDCL | Total |
|---------------------------------------|--------|--------|--------|--------|-------------------|
| 2007-08 | 331.68 | 119.03 | 40.96 | 18.59 | 510.26 |
| 2008-09 | 305.45 | 149.37 | 31.59 | 40.74 | 527.15 (12.35) |
| % increase in 2009-10 over 2008-09 | 21% | 21.41% | 3.8% | 86.8% | 17.6% |
| 2010-11* Licensee Filing | 826.34 | 861.18 | 133.67 | 423.59 | 2244.7 (232%) |
| 2010-11 Commission approved | 405.12 | 389.87 | 71.18 | 199.29 | 1065.46 |
| Actuals for first 6 months of 2010-11 | 166.90 | 37 | 7.11 | 13.11 | 224.95 |

In these circumstances, the Commission decides to keep the sales volume for HT-IV: LIS and Agriculture at 1000 MU for four Licensees as was done for FY2010-11. It is expected that any increase in sales volume to this

category of consumers is likely to be met from off peak energy surpluses from the existing generating stations and thus the Licensees finances will not be hurt. The details of sales are given in Table 13.

Table 13 Sales Volume to HT-IV LIS and Agriculture (MU)for 2011-12

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|----------------------------|--------|--------|--------|--------|---------|
| Proposed by Licensee | 833.69 | 421.84 | 854.80 | 145.30 | 2255.64 |
| Approved by the Commission | 368.11 | 188.70 | 383.64 | 59.55 | 1000.00 |

Sales Volume to Rural Electric Cooperatives

37. **Proposal:** The licensees estimated the sale of energy to Rural Electric Cooperative Societies (RESCOs) as part of the filings. The RESCOs buy the power from the Licensees and distribute the same to LT Consumers in the designated areas. The RESCOs also filed the anticipated power procurement from the Licensees for distribution for FY2011-12 in their ARR filings. The power purchase volumes filed by RESCOs are slightly higher than the Licensees proposed sales for FY2011-12.

Commission’s views: To resolve this issue and to know any other issue related to the working of RESCOs, the Commission has directed the RESCOs to appear before it during the public hearings. Upon hearing of the RESCOs, the Commission re-examined the sales filed by Licensees and power purchase requirements filed by RESCOs and concluded that the sales volumes to RESCOs are slightly higher than the sales volumes proposed by Licensees. The Commission has approved the sales at 1111MU for FY 2011-12 and the details are given in Table 14.

Table 14 Sales Volume to Rural Electric Cooperatives(MU.)

| Sales to RESCOs | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|----------------------|-------|--------|--------|--------|---------|
| Proposed by Licensee | 0.00 | 216.92 | 573.50 | 260.07 | 1050.49 |
| Requested by RESCOs | 0.00 | 230.16 | 650.00 | 292.50 | 1172.66 |
| Commission Approved | 0.00 | 221.00 | 625.00 | 265.00 | 1111.00 |

Energy to Industrial Units Located in RESCO Supply Areas

38. A representative of Parawada Industries Welfare Association has stated that their units are located in Anakapalle RESCO area and are subjected to supply regulations followed for rural areas. Whereas their neighbouring units located in EPDCL supply area are not subjected to such regulations. They further stated that their feeder serves only industrial units and accordingly supply regulations applied in general to RESCO areas cannot be applied for them.

Reply of Licensees: Licensees have not provided any specific explanation.

Commission's View: The Commission examined the issue and directs

The Licensees shall discuss with RESCOs and come up with appropriate proposals before the Commission by 31st July, 2011.

39. The Commission approves the Licensee's estimates of sales to all other categories.

Commission's Conclusions on ARR for FY2011-12

Overall Sales and Power Purchase Volume for FY2011-12

40. The Commission, in accordance with above discussion on sales, has modified the sales volume filed by Licensees and placed at 70422 MU for FY2011-12. With the application of the approved transmission and distribution losses as approved by the Commission, the power purchased requirement for FY2011-12 is placed at 83612.64 MU. The summary and details of sales filed and approved are given in Table 15 to Table 17.

Table 15 Sales and Power Purchase Volume Approved for FY2011-12(MU)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|----------------|----------|----------|----------|----------|----------|
| Sales | 31904.99 | 11859.69 | 10085.20 | 16571.86 | 70421.74 |
| Total Losses | 6353.13 | 1768.20 | 2035.62 | 3033.40 | 13190.35 |
| Power Purchase | 38258.12 | 13627.90 | 12121.37 | 19605.25 | 83612.64 |

Table 16 Estimated Sale of Energy by Licensees for FY2011-12(MU)

| Category | | PROPOSED SALES, MU | | | | TOTAL |
|----------|-----------------------------------|--------------------|-------|-------|-------|-------|
| | | CPDCL | EPDCL | NPDCL | SPDCL | |
| LT-I | Domestic | 6289 | 3370 | 2328 | 4468 | 16456 |
| LT-II | Non-Domest/Commercial | 2030 | 729 | 496 | 1082 | 4337 |
| LT-III | Industry | 1263 | 427 | 310 | 877 | 2877 |
| LT-IV | Cottage Industries and Dhobighats | 16 | 2 | 7 | 32 | 57 |
| LT-V | Agricultural | 8122 | 1916 | 4154 | 4393 | 18586 |
| LT-VI | Str.Lighting and PWS Schemes | 936 | 309 | 468 | 594 | 2308 |
| LT-VII | General | 75 | 38 | 31 | 55 | 198 |
| LT-VIII | Temporary Supplies | 3 | 0 | 0 | 1 | 5 |
| HT-I | Industry: General | 11629 | 3902 | 1178 | 3996 | 20705 |
| HT-II | Non-Industrial | 1621 | 478 | 96 | 430 | 2625 |
| HT-IV | Govt. LIS and Agriculture | 883 | 432 | 862 | 145 | 2324 |
| HT-V | Railway Traction | 185 | 582 | 406 | 579 | 1751 |
| HT-VI | Colony Lighting | 94 | 43 | 153 | 58 | 348 |
| HTVII | Others | 6 | 217 | 574 | 260 | 1056 |
| | All Categories | 33153 | 12446 | 11064 | 16972 | 73634 |

Table 17 Commission Approved Sale of Energy by Licensees for FY2011-12(MU)

| Category | | APPROVED SALES, MU | | | | TOTAL |
|----------|-----------------------------------|--------------------|-------|-------|-------|-------|
| | | CPDCL | EPDCL | NPDCL | SPDCL | |
| LT-I | Domestic | 6289 | 3370 | 2328 | 4468 | 16456 |
| LT-II | Non-Domest/Commercial | 2030 | 729 | 496 | 1082 | 4337 |
| LT-III | Industry | 1263 | 427 | 310 | 877 | 2877 |
| LT-IV | Cottage Industries and Dhobighats | 16 | 2 | 7 | 32 | 57 |
| LT-V | Agricultural | 7340 | 1559 | 3596 | 4075 | 16569 |
| LT-VI | Str.Lighting and PWS Schemes | 936 | 309 | 468 | 594 | 2308 |
| LT-VII | General | 75 | 38 | 31 | 55 | 198 |
| LT-VIII | Temporary Supplies | 3 | 0 | 0 | 1 | 5 |
| HT-I | Industry: General | 11629 | 3902 | 1178 | 3996 | 20705 |
| HT-II | Non-Industrial | 1621 | 478 | 96 | 430 | 2625 |
| HT-IV | Govt. LIS and Agriculture | 418 | 199 | 391 | 60 | 1068 |
| HT-V | Railway Traction | 185 | 582 | 406 | 579 | 1751 |
| HT-VI | Colony Lighting | 94 | 43 | 153 | 58 | 348 |
| HTVII | Others | 6 | 221 | 625 | 265 | 1117 |
| | All Categories | 31905 | 11860 | 10086 | 16572 | 70422 |

Power Purchase Cost for FY2011-12

41. The Commission, while taking into account the above modified power purchase requirement for FY2011-12, has separately estimated the

overall power purchase cost based on Licensee's own generation facilities, available generation with APPCC for distribution among Licensees and providing market purchases wherever needed. The detailed power purchase cost analysis has been provided in Chapter-III. The estimated power purchase cost, in accordance with Chapter-III, for FY2011-12 is placed at Rs.20467.90 Cr. The details are given in Table 18.

Table 18 Power Purchase Cost FY2011-12 (Rs. Cr.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|-----------------------------|----------|---------|---------|---------|----------|
| As per Filings by Licensees | 10087.47 | 3854.53 | 3606.31 | 5223.98 | 22772.29 |
| Approved by the Commission | 9285.83 | 3434.69 | 2889.91 | 4857.56 | 20467.99 |

Other costs:- Network Cost for FY2011-12

42. The network cost consist of transmission cost, distribution cost, SLDC cost and transmission charges on account of usage of national grid (PGCIL) and ULDC Charges. The Commission evaluated the PGCIL cost (as other costs are filed as approved by the Commission for FY2011-12 in MYT order for five year period from 2008-09 to 2013-14). Further, the PGCIL costs vary depending upon the volume of power evacuation and CERC's decision on transmission charges and losses. The Commission, upon examination of the recent bills, has concluded that the expenses for FY2011-12 will be lower by Rs.26 Cr and approved the PGCIL cost accordingly. The details are given in Table 19.

Table 19 PGCIL Cost for FY2011-12 (Rs. Cr.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|-----------------------------|--------|-------|-------|-------|--------|
| As per Filings by Licensees | 162.78 | 56.37 | 56.62 | 80.64 | 356.41 |
| Approved by the Commission | 152.40 | 52.28 | 52.51 | 73.68 | 330.86 |

Gross ARR for FY2011-12

43. The Commission, accordingly, modified the proposed ARR for each Licensee for FY2011-12 and the total ARR is placed at Rs.25958 Cr.

The modified ARR for each for each Licensee is lower compared with the filings for FY2011-12 on account of revision of sales, power purchase cost and network cost. The summary of revenue requirement as filed and now as approved by the Commission is given in Table 20.

Table 20: ARR for FY2011-12 (Rs. Cr.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|-----------------------------|----------|---------|---------|---------|----------|
| As per Filings by Licensees | 12246.00 | 4807.84 | 4571.19 | 6662.72 | 28287.75 |
| Approved by the Commission | 11433.97 | 4383.91 | 3850.68 | 6289.34 | 25957.90 |

44. The item wise details of revenue requirement filed and approved are given in Table 21 to Table 22.

Table 21 Revenue Requirement as per Filings for FY2011-12(Rs. Cr.)

| ARR Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--|----------|---------|---------|---------|----------|
| Distribution Cost | 1367.44 | 665.75 | 702.38 | 1040.00 | 3775.57 |
| Power Purchase Cost | 10087.47 | 3854.53 | 3606.31 | 5223.98 | 22772.29 |
| Transmission charges | 498.87 | 176.62 | 171.06 | 250.96 | 1097.51 |
| SLDC Charges | 16.03 | 5.68 | 5.50 | 8.07 | 35.28 |
| PGCIL Charges | 162.78 | 56.37 | 56.62 | 80.64 | 356.41 |
| ULDC Charges | 12.76 | 3.85 | 3.86 | 4.24 | 24.71 |
| Interest on Consumer Security Deposits | 90.29 | 40.11 | 18.14 | 41.22 | 189.76 |
| Supply Margin | 10.35 | 4.74 | 6.73 | 13.61 | 35.43 |
| Others expenses | 0.00 | 0.19 | 0.60 | 0.00 | 0.79 |
| Revenue requirement | 12246.00 | 4807.84 | 4571.19 | 6662.72 | 28287.75 |

Table 22: Commission Approved ARR for FY2011-12(Rs. Cr.)

| ARR Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--|----------|---------|---------|---------|----------|
| Distribution Cost | 1367.44 | 665.75 | 702.38 | 1040.00 | 3775.57 |
| Power Purchase Cost | 9285.83 | 3434.69 | 2889.91 | 4857.56 | 20467.99 |
| Transmission charges | 498.87 | 176.62 | 171.06 | 250.96 | 1097.51 |
| SLDC Charges | 16.03 | 5.68 | 5.50 | 8.07 | 35.28 |
| PGCIL Charges | 152.40 | 52.28 | 52.51 | 73.68 | 330.86 |
| ULDC Charges | 12.76 | 3.85 | 3.86 | 4.24 | 24.71 |
| Interest on Consumer Security Deposits | 90.29 | 40.11 | 18.14 | 41.22 | 189.76 |
| Supply Margin | 10.35 | 4.74 | 6.73 | 13.61 | 35.43 |
| Others expenses | 0.00 | 0.19 | 0.60 | 0.00 | 0.76 |
| Revenue requirement | 11433.97 | 4383.91 | 3850.68 | 6289.34 | 25957.90 |

Cost of Service for Consumer Categories for FY2011-12

45. Having quantified the total costs (revenue requirement) and the estimated sales for the year, the Commission has determined the Cost of sales.
46. The Commission has computed the cost of service for different consumer categories for FY2011-12 based on embedded cost method. In this method, the entire ARR (Cost) for FY2011-12 is allocated among different classes of consumers based on contribution of each consumer class to peak load and utilisation of loads by each consumer class for FY2011-12. The resultant of this model is the unit cost of service for different consumer categories for FY2011-12 for each licensee. This cost differs for each category of consumers on account of factors such as variations in contribution to peak, voltage of supply, load factor, contracted capacity etc.
47. It may also be mentioned that the Licensees considered both the evening and morning peaks. The morning peak has substantial contribution from agriculture consumers. However, the agriculture consumers appear as major contributors to morning peak not in a natural way but because they are supplied power at that hour chosen by the Licensee. The agriculture sector receives power in the time slots determined and set by the Licensees. Hence, this is not a naturally occurring peak and so was not considered by the Commission in all its earlier workings. The same situation continues this year too. The Commission computed the cost of service (CoS) through allocation of approved ARR for FY2010-11 among different

consumer categories based on the evening peak and the load and coincidence factors for each category of consumers.

48. The cost of service worked out for each consumer category is only indicative for the purpose of observing the cost and cross subsidy to make decisions on tariff setting for different consumer categories. The cost of service is also used by the Commission to determine the tariff to recover the approved ARR for FY2011-12 for each Licensee. In general, in tariff setting *ex ante* (for forthcoming year), the unit cost of service is only indicator and can not be related to the tariff to be paid by consumers.
49. The average costs of service for each of the licensees differ from one another as costs and sales vary from each other. The average cost of service for FY2011-12 is given in Table 23 for each Licensee

Table 23: Average Cost of Service for FY2011-12 (Rs./kWh)

| Cost of Service | CPDCL | EPDCL | NPDCL | SPDCL |
|----------------------|-------|-------|-------|-------|
| Average Cost(Rs/kWh) | 3.70 | 3.82 | 3.80 | 3.69 |

50. The Complete details of the cost of service by each consumer category are given in below and full cost allocation details are given in Annexures-I-L.

Table 24 : Cost of Service for FY2011-12(Rs./kWh)

| Consumer Category | CPDCL | EPDCL | NPDCL | SPDCL |
|--|-------|-------|-------|-------|
| LT Cat I - Domestic | 4.52 | 4.92 | 4.45 | 4.66 |
| LT Cat II - Non-domestic | 4.57 | 5.28 | 4.62 | 4.79 |
| LT Cat III (A & B) - Industrial | 3.82 | 4.36 | 3.89 | 4.00 |
| LT Cat IV - Cottage Industries & Dhobighats | 3.81 | 4.32 | 3.87 | 3.99 |
| LT Cat V - Irrigation and Agriculture | 3.30 | 3.32 | 3.05 | 3.12 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 4.98 | 5.43 | 5.09 | 4.99 |

| Consumer Category | CPDCL | EPDCL | NPDCL | SPDCL |
|--|-------|-------|-------|-------|
| LT Cat VII - General Purpose | 4.99 | 5.45 | 5.09 | 4.99 |
| LT Cat VIII - Temporary | 6.35 | 6.07 | 5.20 | 5.09 |
| HT Cat I - Industry - General (11 kV) | 3.74 | 3.36 | 4.62 | 3.84 |
| HT Cat I - Industry - General (33 kV) | 2.77 | 2.82 | 3.12 | 2.84 |
| HT Cat I - Industry - General (220/132 kV) | 2.69 | 2.54 | 2.74 | 2.61 |
| HT Cat II - Industry - Other (11 kV) | 4.17 | 3.42 | 4.66 | 4.17 |
| HT Cat II - Industry - Other (33 kV) | 2.94 | 2.86 | 3.13 | 3.15 |
| HT Cat II - Industry - Other (220/132 kV) | 2.81 | 2.74 | 0.00 | 2.82 |
| HT Cat IV - Irrigation & Agriculture | 2.18 | 3.32 | 3.17 | 2.90 |
| HT Cat V - Railway Traction (EHT) | 3.65 | 3.26 | 3.86 | 3.60 |
| HT Cat VI - Colony Consumption | 3.67 | 3.58 | 4.79 | 4.03 |
| HT Rural Co-operatives (11 kV) | 2.68 | 2.57 | 2.76 | 2.64 |
| HT Temporary | 0.00 | 0.00 | 3.20 | 3.35 |
| Total | 3.70 | 3.82 | 3.80 | 3.69 |

CHAPTER-III ANALYSIS OF POWER PURCHASE COST

A: OBJECTIONS/SUGGESTIONS RELATING TO POWER PURCHASE COST

Gaps in the data filed by DISCOMs

51. Dr M Thimma Reddy of Peoples' Monitoring Group on Electricity Regulation and Sri Gade Diwakar of All India Kisan Mazdoor Sangh observed that the Power purchase costs account for 80 percent of the revenue required for the year 2011-12. The filings of the DISCOMs show discrepancy in the power purchase costs. There is a difference in power purchase cost projection. At page No. 32 of CPDCL the projected cost of power purchase for the whole state is Rs. 22,129.12 Cr. (This figure appears in the filings of other DISCOMs also). But the total of power purchase costs mentioned in ARR of respective DISCOMs amounts to Rs 22, 772.29 Cr. Difference is Rs 643.17 Cr. The objectors requested the DISCOMs to explain the difference between the two figures.

Shri Ch Venkateswarlu of Raithu Samaikhya pointed out that power was purchased by DISCOMs to the tune of Rs 6400 Cr. at exorbitant rates without the approval of the Commission.

Replies of Licensees: It was stated that the objections raised by Sri Ch Venkateswarlu are under the purview of APERC.

The total energy requirement, including expensive purchases is allocated as per the PPA allocation. Any surplus/ deficit will be adjusted among the DISCOMs under pool transactions. Energy dispatch, Sheet 4.2 of RSF filing, captures pool purchases and pool

sales. However, power purchase cost, 1.4 sheet of RSF filing, does not allow the revenue from pool sales (negative value/ cost is not being allowed in this sheet). In view of the above difficulty, Licensees have shown the revenue from pooled sales in 1.4 c sheet i.e. Revenue from trading. Net power purchase cost has to be read by combining the 1.4 & 1.4 c. The actual power purchase costs of the DISCOMs are given in Table 25.

Table 25: Actual power purchase costs of DISCOMS

| DISCOM | PP cost (Rs. Cr) | Revenue from trading (Rs. Cr) |
|--------|------------------|-------------------------------|
| CPDCL | 9938.57 | 148.90 |
| SPDCL | 5129.45 | 94.53 |
| EPDCL | 3771.07 | 83.46 |
| NPDCL | 3290.03 | 316.28 |
| Total | 22,129.12 | 643.17 |

Commission's views: The reply of DISCOM is acceptable.

Increasing Prices of Gas

52. **Dr M Thimma Reddy and Sri Gade Diwakar** also pointed out to hikes in gas price (2.52\$ to 4.2\$ per MBTU for KG basin gas and from 1.79\$ to 4.2\$ fro ONGC gas) and coal prices (with increasing imports) by the Central Govt and stated that the DISCOMS have remained silent spectators. They requested the Commission to direct the generating Cos/developers to re negotiate the fuel supply agreements to roll back the prices.

A similar view was taken by **Shri M.Venugopala Rao and Shri B.V.Raghavulu**. It was pointed out that power purchase costs are going up as price for gas and coal is being revised upwards steeply by the Govt of India. They also said that the prices for non conventional energy are also going up on account of Commission's orders for the

years 2009-10 to 2014-15 and the RPPO obligation cast on the DISCOMS.

Reply of DISCOMS: As regards the pricing of Gas and Coal, it was stated that the DISCOMs have made representations to the Central Govt. However, increase in the prices of fuels and allocations of gas to the plants are not under the purview of DISCOMs.

Commission's views: The costing of gas and coal is admittedly not in the hands of DISCOMS. However they should take up the matter to the respective ministries of Govt. of India with the help of GoAP.

Variations in the Fixed Costs of IPPs

53. **Shri M. Venugopala Rao and Shri B.V.Raghavulu** pointed out that there is substantial variation in the fixed costs per unit of the new IPPs-GVK extension, Konaseema, Vemagiri and Gauthami power plant. It was pointed out that the costs for Gauthami are going up while that of others is coming down.

Reply of Licensees: The difference in costing for Gauthami was attributed to typographical error and it had been corrected in subsequent filings.

Commission's views: The reply is acceptable.

Higher Fixed Costs of APGenco's New Plants

54. **Dr M Thimma Reddy and Sri Gade Diwakar** stated that the fixed costs of the new GENCO plants are much higher and appear to be inflated. The fixed cost for the NTPC's Simhadri II is Rs. 1.05 per unit, whereas, the fixed costs of new GENCO units are higher by 50%. The

additional burden on the consumers because of this inflated fixed cost of new GENCO units is about Rs. 930Cr. They requested that the Commission may benchmark the fixed costs of GENCO's new plants with NTPC's Simhadri - II unit and allow fixed cost of Rs. 1.05 per unit only for the new GENCO units. The variations in fixed costs as per filings for 2010-11 and 2011-12 are also pointed out.

Reply of Licensees : Matter is under the purview of the Commission.

Commission's views: As regards higher fixed costs of APGENCO's new thermal power stations like VTPS-IV, RTPP-II & III, KTPS-VI and Kakatiya-I compared to those of contemporary thermal power stations like Simhadri-II and UMPP-Mundra, the Commission will examine the issue in greater detail while determining the station wise tariffs for these stations under O P No. 15 of 2009.

Variations in Power Purchase Cost

55. **AP Spinning Mills Association** observed that the statements made by the licensees with regard to the power purchase cost estimates for the state of AP for 2011-12 appears to be grossly misleading and stated that it is not understood as to why there is no reduction in costs to the extent these costs are relatable to the deficit in power supply from the gas based IPPs, KTPP-I and NTPC-Simhadri-II.

Reply of Licensees: Variation between approved power purchase cost and the revised estimate of power purchase cost for 2010-11 i.e., Rs 1035 Cr given in paragraph 2.3.1 pertains to CPDCL only whereas, the additional cost for power purchase for FY 2010-11

mentioned in page (vi) belongs to the state as a whole; additional power purchase cost, due to increase in agricultural sales at an average cost Rs 4.60 is Rs 582 Cr. only. There is no discrepancy in the statement.

Commission's views: The reply of DISCOMS is satisfactory.

Excess Power Purchases

56. **Shri Thimma Reddy and Shri G.Diwakar** pointed out that the power purchased by the DISCOMS is more than what is allowed by the Commission. The Commission allowed procurement of 77,828.60 MU by the DISCOMs in the state during the year 2010-11. The DISCOMs, however procured 78,351.15 MU. Had the power holidays for the industries and power cuts imposed on other consumers in the state were taken into account, the power requirement would have been much higher and secondly, the licensees are not following the regulations in procuring power. They stated that DISCOMS plan to procure power additionally over and above the quantum and sources allowed by the Commission but they are not taking any approval from Commission.

Reply of Licensees: Agree with this view and request the Hon'ble Commission to allow the energy requirement as per the projections made by the DISCOMs. The Forecast and demand changes were informed to GoAP from time to time before procuring the expensive power and a copy of the letter is also marked to the Hon'ble Commission for perusal.

Commission's views: The determination of quantity of power required is explained in detail in the preceding Chapter II. The variations in power purchase requirements as determined by the Commission and as estimated by the DISCOMS are mostly on account on estimate of sales to the two categories of consumers-(a) LT-V-Agricultural consumers and (b) consumers in the category of HT-IVA and HT-IVB - lift irrigation schemes. Thus, until the estimates of sales to agricultural consumers in the category, LT-V are more reliable, there would be variations in approved and filed power purchase requirements. The Commission, keeping this aspect in view, is therefore lying down the upper limits/ceilings for market power purchase price so that the DISCOMS, can buy at opportune moments if required.

Secondly, regarding the costs for power purchases made beyond the Commission approved volumes, the Commission is concerned as these amounts are at present outside the regulatory process. This will eventually put a strain on the financial health of the DISCOMS. The Commission therefore directs that;

the DISCOMS shall not buy any power beyond the volumes approved in tariff orders and based on the consumption, they shall approach the commission for further approvals of quantity as well as rate of power to be purchased.

Variations in costs for APGPCL units

57. **Shri Thimma Reddy and Shri G.Diwakar** pointed out that there are variations and discrepancies in costs shown for APGPCL units. According to the DISCOMs' share in the plant capacity of HGPI, the inspection costs should have been Rs. 18.48Cr., but, the DISCOMs'

filings show that cost as Rs. 24.12 Cr. The difference is Rs. 5.64 Cr. They wanted to know whether repair and maintenance alone account for this difference. They also wanted to know whether HGPI and inspection have to be recovered in one single year since they are fixed costs.

Reply of Licensees: The difference of Rs. 5.64 Cr is due to the following reasons: the fixed costs have gone up steeply due to shortage in availability of Natural Gas. 100 MW is kept idle for want of Natural Gas & the increase in operating and maintenance costs too contribute to the increased costs filed; The HGPI and inspection costs are treated as revenue expenditure and not as capital expenditure. In case of capital expenditure, the same can be recovered over a period of time. However, in case of revenue expenditure, the cost would be recovered in a single year.

Commission's views: Reply of the DISCOMs is satisfactory.

Power purchase cost of APGENCO units

58. **Shri Thimma Reddy and Shri G.Diwakar** pointed out that in the Tariff Order for the year 2010-11, the Commission stated that pending determination of generation tariff for APGENCO's power stations for FY 2010-11, the fixed cost is determined based on information provided by APGENCO in its application for determination of generation tariff in accordance with Regulation 1 of 2008 (para. 282). They requested the Commission to take up these PPAs in a transparent and expeditious manner. Secondly, they also pointed out that for many GENCO units, even though they are ready to commence

generation and inject power into the grid, the respective PPAs are not yet signed. They requested the commission to ensure that the process is expedited.

Replies of Licensees: Under the purview of APERC.

Commission's views: The costs for GENCO units would be examined while determining the PPA agreements and approving the costs as per regulations. Commission desires that the DISCOMs will expedite the process of entering into PPAs with new projects of APGenco, as suggested by the objectors.

AP Genco- Non- Adherence to proposed energy delivery schedules

59. **Shri Thimma Reddy and Shri G.Diwakar**, regarding recovery of damages from GENCO for non adherence to proposed energy deliveries, queried as to, whether the DISCOMs intend to recover liquidated damages from APGENCO and NTPC for the delays in commencing the new plants as per the schedule.

Reply of Licensees: Currently, there is no mechanism in place to recover the liquidated damages from APGENCO and NTPC; hence, DISCOMs cannot recover any damages.

Commission's views : Reply of DISCOMs is satisfactory.

B: ANALYSIS OF POWER PURCHASE COST

Power Purchase requirement

60. The power purchase requirements for each of the Licensees are computed by grossing up the approved sales at a particular voltage with the percentages of losses that are applicable at that voltage

level to arrive at the input for the next higher voltage level (para 32 above). On the power purchase volumes from CGS (except NTPC Simhadri plant as it is directly connected to APGRID), additional 5 to 10 percent has been considered in computing the power purchase requirement. The sales and power purchase requirement, filed and approved are given in Table 26. The details of sales are given in Annexure H(I) to H (V).

Table 26 Sales and Power Purchase Requirement for FY2011-12(MU)

| DISCOM | Filings by DISCOMs | | Approved by APERC | |
|--------|--------------------|----------|-------------------|----------|
| | Sales | Purchase | Sales | Purchase |
| CPDCL | 33152.87 | 39736.70 | 31904.99 | 38258.12 |
| EPDCL | 12446.06 | 14315.04 | 11859.69 | 13627.90 |
| NPDCL | 11063.58 | 13242.74 | 10085.76 | 12121.38 |
| SPDCL | 16971.59 | 20086.52 | 16571.85 | 19605.25 |
| Total | 73634.10 | 87381.00 | 70422.29 | 83612.65 |

Availability

61. After examination of the station wise energy availability from different sources for FY2011-12, the total energy availability is considered at 85085.21 MU as against 87380.99 MU filed by Licensees for FY2011-12. Since the market purchase requirement arises only when the energy availability is not sufficient to meet the requirement, this source is not considered as available to the Licensees. Further, the Licensees have no prior commitment to procure energy from this source. The summary of energy availability by source is given in the following paragraph.

62. The details of energy availability by generating stations are given in Annexure D(I) to D(II).

Table 27 Availability by Source for FY 2011-12(MU)

| Source of Energy | Filings by DISCOMs | Approved by APERC |
|----------------------|--------------------|-------------------|
| APGENCO | | |
| a) Thermal stations | 33008.51 | 33008.51 |
| b) Hydel stations | 7662.75 | 8237.91 |
| CGS-SR | 13048.78 | 13048.78 |
| NTPC-Simhadri | 9393.70 | 9393.70 |
| APGPCL | 278.70 | 278.70 |
| IPPs | 17291.73 | 17854.47 |
| OTHERS | | |
| a) Non-Conventional | 2934.07 | 2934.07 |
| b) Mini Power plants | 329.07 | 329.07 |
| c) Market | 3433.68 | 0.00 |
| TOTAL | 87380.99 | 85085.21 |

63. The cost of power for the above tabulated sources is now estimated.

APGENCO-Fixed Cost

64. Pending determination of generation tariff for APGENCO's power stations for FY2011-12, the fixed cost is determined based on information provided by APGENCO in its application for determination of generation tariff and updates on subsequent information in accordance with the Regulation 1 of 2008.
65. The fixed cost for APGENCO is approved at Rs.4548.30 Cr. against Rs.4638.13 Cr. filed by Licensees for FY2011-12. The fixed cost computed here 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 F.

Central Despatch and Power Purchase Cost for FY2011-12

66. The monthly availability of energy from different thermal power stations along with variable costs as estimated by the Commission (based on actual bills claimed by majority of the generating companies during Second Half of FY 2010-11 till the Month of January, 2011) was used for monthly merit order dispatch for FY 2011-12. The details are given in Annexure D(III). In the merit order despatch, 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, in the merit order model, the cost of power procurement 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 28 and the power purchase cost estimated and approved for tariff calculations are given in Table 29 and further details are given in Annexure G(I) to G(V). A summary of monthly and quarterly variable costs is also given as Annexure G(VI) for the purpose of FSA calculations.

Table 28 Filings: Power Purchase Costs for FY 2011-12- Total

| Source | Power purchase | Fixed costs | Variable costs | Tax, incentives & Others | Total cost |
|---------------|----------------|-------------|----------------|--------------------------|------------|
| | (MU) | (Rs.Cr) | (Rs.Cr) | (Rs.Cr) | (Rs.Cr) |
| APGenco | 40671.26 | 4638.13 | 4784.78 | 105.47 | 9528.39 |
| Thermal | 33008.51 | 3630.33 | 4784.78 | 68.64 | 8483.76 |
| Hydel | 7662.75 | 1007.8 | 0.00 | 36.83 | 1044.63 |
| CGS-SR | 13048.78 | 633.07 | 1666.00 | 15.19 | 2314.26 |
| NTPC Simhadri | 9393.70 | 824.87 | 1481.00 | 10.85 | 2316.72 |
| APGPCL-I&II | 278.70 | 24.11 | 49.44 | 0.00 | 73.56 |

| Source | Power purchase | Fixed costs | Variable costs | Tax, incentives & Others | Total cost |
|--------------------------|----------------|-------------|----------------|--------------------------|------------|
| | (MU) | (Rs.Cr) | (Rs.Cr) | (Rs.Cr) | (Rs.Cr) |
| IPPs | 17291.73 | 1609.41 | 3127.25 | 0.66 | 4737.32 |
| NCE | 2934.07 | 0.00 | 1029.13 | 0.00 | 1029.13 |
| Others(Srivathsa, LVS) | 329.07 | 46.95 | 191.27 | 3.00 | 241.22 |
| Other short term sources | 3433.68 | 0.00 | 1888.53 | 0.00 | 1888.53 |
| Grand Total | 87380.99 | 7776.54 | 14217.40 | 135.17 | 22129.13 |

Table 29 APERC: Power Purchase Cost for FY 2011-12 - Total

| Source | Power Purchase | Fixed Cost | Variable Cost | Incentive |
|--------------------------|----------------|------------|---------------|-----------|
| | (MU) | (Rs. Cr.) | (Rs. Cr.) | (Rs. Cr.) |
| APGENCO | 41246.42 | 4,548.30 | 4,784.78 | 35.55 |
| Thermal | 33008.51 | 3540.50 | 4784.78 | 35.55 |
| Hydel | 8237.91 | 1,007.80 | 0.00 | 0.00 |
| CGS | 13048.78 | 633.07 | 1666.00 | 15.19 |
| NTPC- Simhadri | 9393.70 | 824.87 | 1,481.00 | 10.85 |
| APGPCL | 250.52 | 24.11 | 44.02 | 0.00 |
| IPPs | 15198.64 | 1703.92 | 2699.27 | 0.66 |
| NCE | 2934.07 | 0.00 | 1,029.13 | 0.00 |
| Others (Srivathsa, LVS) | 164.69 | 46.95 | 90.68 | 0.00 |
| Other short term sources | 1375.84 | 0.00 | 756.71 | 0.00 |
| TOTAL | 83612.66 | 7781.22 | 12551.59 | 62.25 |

Merit Order Dispatch: D-D Energy Transfer Pricing and Costs

67. Since almost all generating stations 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 transfers). In the merit order process adopted for estimating the power purchase cost, such transfer of energy is priced at Rs.0.9306/kWh fixed cost and Rs.1.9246/kWh variable cost. The fixed cost adopted is the average fixed cost of all generating stations

for FY2011-12 and the variable cost adopted is the weighted average variable cost of last six stations (with correction for not reflecting the high cost of LSHS in case of LVS), which are dispatched as marginal stations. After pricing the D-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-D transfer are given in Table Table 30.

Table 30 Cost Adjustment for D-D Energy Transfer for FY2011-12

| DISCOM | Allocation from total approved energy (MU) | Energy purchase Required (MU) | Surplus / (Deficit) (MU) | Energy cost before D-to-D transfer (Rs. Cr.) | Energy cost after D-to-D transfer (Rs. Cr.) |
|--------|---|----------------------------------|-----------------------------|---|--|
| CPDCL | 37871.42 | 38258.12 | -386.70 | 9159.40 | 9,269.82 |
| EPDCL | 13398.11 | 13627.90 | -229.79 | 3370.04 | 3,435.65 |
| NPDCL | 13207.63 | 12121.38 | 1086.25 | 3200.28 | 2,890.13 |
| SPDCL | 19135.49 | 19605.25 | -469.76 | 4738.26 | 4,872.39 |
| Total | 83612.65 | 83612.65 | 0.00 | 20467.98 | 20,467.99 |

Non-Conventional Energy (NCE) Sources-Cost Adjustment

68. The Licensees have projected purchase of 2934.07 MU from NCE sources and the details are given in their filings.
69. Together with 222.87 MU pertaining to mini Hydel units of AP GENCO, the total projected purchase from NCE sources comes to 3156.94 MU, which is considered in power purchase cost computations. With this purchase volume, the purchase from NCE sources, as a percentage of total purchase for all four Licensees, works out to 3.78 percent. As per the filings, the NCE purchase ratio is at 2.35 percent, 4.09

percent, 3.52 percent and 6.56 percent for CPDCL, EPDCL, NPDCL and SPDCL respectively as against required obligation of 5.00 percent.

Table 31 Non-Conventional Energy (NCE) sources: Details for FY2011-12

| Station | Energy | Other cost for FY 2011-12 | Variable charges |
|----------------------------------|---------|---------------------------|------------------|
| | (MU) | (Rs. Cr.) | (Rs.Cr.) |
| NCE - Biomass | 1229.22 | 0.00 | 479.59 |
| NCE - Bagasse | 825.55 | 0.00 | 255.73 |
| NCE - Municipal Waste to Energy | 71.11 | 0.00 | 30.17 |
| NCE - Industrial Waste to Energy | 169.69 | 0.00 | 69.01 |
| NCE - Wind Power | 470.31 | 0.00 | 160.13 |
| NCE - Mini Hydel | 147.96 | 0.00 | 30.90 |
| NCE - NCL Energy Ltd. | 20.24 | 0.00 | 3.61 |
| Total | 2934.08 | 0.00 | 1029.14 |

70. The NCE projects are allocated to the Licensees by Government of Andhra Pradesh on the basis of their location which ensures that the project developers are not put to avoidable inconvenience, in having to deal with more than one Licensee. Since some of the Licensees are at disadvantage due to the higher cost of electricity from these projects, it has been decided to distribute the cost of purchase from NCE sources among the four Licensees equally, i.e. each DISCOM will have 3.82 percent purchase from NCE sources.
71. Each Licensee bears the cost of 3.78 percent of its total purchase requirement from NCE sources at the weighted average cost of purchase, i.e. Rs.3.2599/kWh. The additional power purchase cost is worked out for NCE deficit Licensees on the deficit energy at Rs.0.2884/kWh which is the difference between NCE purchase rate of Rs.3.2599/kWh and Rs.2.9715/kWh (sum of average fixed cost and marginal variable cost of

last but one station among the six stations taken in D-to-D energy transfer pricing, i.e. excluding LVS) and this amount has been included in the power purchase cost. The amount equal to additional power purchase cost for deficit NCE has been reduced from the total power purchase cost of NCE surplus Licensees for FY2011.

72. The total power purchase cost for each of the Licensees has been computed after this adjustment for FY2011-12 and details are given in Table 32.

Table 32: Power Purchase Cost for FY2011-12

| DISCOM | Allocation from NCE sources | NCE purchase Required | Surplus / (Deficit) | Power Purchase before adjustment | Power Purchase after adjustment |
|--------|-----------------------------|-----------------------|---------------------|----------------------------------|---------------------------------|
| | (MU) | (MU) | (MU) | Cost (Rs.Cr) | Cost (Rs.Cr) |
| CPDCL | 889.37 | 1444.50 | -555.13 | 9,269.82 | 9285.82 |
| EPDCL | 547.44 | 514.55 | 32.90 | 3,435.65 | 3434.70 |
| NPDCL | 465.45 | 457.66 | 7.78 | 2,890.13 | 2889.90 |
| SPDCL | 1254.68 | 740.23 | 514.45 | 4,872.39 | 4857.56 |
| Total | 3156.94 | 3156.94 | 0.00 | 20,467.99 | 20468.00 |

Maximum Ceiling Price for Short Term Power Purchases

73. There is a need for external power purchases during the months of April'11, May'11, February'12 and March'12 as per the availability and requirements of power determined by the commission.
74. The Commission, after careful consideration of information furnished by the licensees and analysis made for energy availability for FY 2010-11, fixed the maximum ceiling price for purchases from such external / Short Term Sources at Rs.5.50 per kWh subject to procurement of power from such sources by Web based competitive procurement process, for a period not exceeding 1 year. This

maximum ceiling price is not valid for purchases made through IEX and IPX.

The Commission directs the DISCOMS to submit monthly statements on station wise deviations of actual quantum purchased and Fixed & Variable Costs thereof compared to the respective values taken in the Tariff Order. Such reports must be submitted within 30 days of completion of each month. They are also directed to submit to the Commission the soft copies of Daily Grid Reports for each month as the supporting information for such deviations.

CHAPTER-IV REVENUE ESTIMATES AND TARIFF PROPOSALS

A: REVENUE FROM TARIFF

75. The endeavour of any tariff exercise is to recover the expenses that is the revenue requirement (quantified in the earlier chapter II), from the receipts/revenue from various streams so that there is no revenue deficit and the DISCOM is able to finance its expenditure. The ways and means to raise the revenue to meet this expenditure is now discussed.

Expected Revenue as per filings

76. The DISCOMS filed their estimates of the expected revenue from the following streams:-

- a) Energy charges from sale of power to various consumers at the rates specified in the tariff schedule
- b) Fixed charges
- c) Customer charges
- d) Revenue from other charges if any,
- e) Non-tariff income like recoveries from theft of power or other malpractices, interest income and other miscellaneous receipts like supervision charges, application fees, reconnection fees, capacitor surcharge etc.

77. As regards the expected revenue, the filings indicate the position as given in Table 33.

Table 33 Revenue and Revenue Gap as per Filings(Rs.Cr.)

| REVENUE ITEM | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|---|-----------|---------|-----------|-----------|-----------|
| Revenue at current energy tariffs and charges | 9950.06 | 3910.79 | 2112.66 | 4965.48 | 20938.99 |
| Non tariff income | 70.97 | 19.57 | 13.82 | 146.84 | 251.20 |
| Revenue from trading | 148.90 | 83.46 | 316.28 | 94.53 | 643.17 |
| Net revenue through proposed changes like time of season and incentives | 263.10 | 86.70 | 31.18 | 115.55 | 496.53 |
| Total Revenue | 10433.03 | 4100.52 | 2473.94 | 5322.40 | 22329.89 |
| Net Deficit / Surplus | -1,812.97 | -707.32 | -2,097.25 | -1,340.32 | -5,957.86 |

78. However, as can be seen from the above table, the DISCOMS have made filings arriving at a deficit with revenue requirement exceeding their revenue. This deficit is after considering the revenue from certain tariff proposals.

B: OBJECTIONS / SUGGESTIONS RECEIVED

79. The objections here are on two accounts. Firstly, the revenue deficit for the year 2011-12, since the DISCOMS themselves filed ARR and tariff proposals with revenue deficits and did not indicate as to how the deficit indicated would be covered. Secondly, the objections regarding the accumulated deficit/revenue gap of earlier years.

80. **Shri BV Raghavulu and Shri M Venugopala Rao** observed that the four DISCOMs have shown a revenue gap of Rs.5957 Cr for the year 2011-12 (Rs.1813 Cr. by CPDCL; Rs.1340.32 Cr. by SPDCL; Rs.2097 Cr. by NPDCL & Rs 707 Cr. by EPDCL); this revenue gap is estimated after taking into consideration the impact of proposed tariff, non-tariff income and targets of reduction of distribution losses revised by the Commission and improvement in internal efficiency. Apart from getting the subsidy from the Government, objectors wanted to know as to how the DISCOMs propose to do to bridge the balance of the estimated revenue gap.

The objectors also pointed out that the revenue gap claimed by the four DISCOMS for the years 2005-2008 is Rs 2588.01 Cr. To this, the pending claims of APGENCO (Rs 2819.15 Cr) and APTRANSCO (Rs 386.07 Cr on account of special appropriation) are to be added.

Further, the revised gap for FY 2010-11 is shown to be Rs 6623.82Cr by the 4 DISCOMS whereas the subsidy provided in FY 2010-11 budget is only 4500Cr, leaving a deficit. There are FSA claims pending finalization for 2009-10 (Rs 1649 Cr) and 2010-11(Rs 740 Cr for the first 2 quarters). For the year 2008-09, the Commission allowed the FSA claims for Rs1649 Cr but on account of court cases, it is not clear as to how much of this allowed amount could be collected by the DISCOMS. They also pointed out that there are accumulated dues from the Govt towards additional power purchases and wanted to know the amount due.

Dr M Thimma Reddy and Sri Gade Diwakar observed that according to the present submissions, the net deficit of M/s CPDCL (after taking in to account the subsidy provided by the Government of AP) for the year 2009-10 is Rs.1,901.08 Cr and for the year 2010-11 it is Rs 1,460.38 Cr. During the year 2010-11 additional power purchase cost is about Rs. 1,035 Cr. Even if this is recovered through FSA, still it would leave a deficit of about Rs 425 Cr and M/s CPDCL had not explained as to how it intends to recover this deficit. The objectors also stated that the Other DISCOMs did not provide any information on deficits for the first and second years of the present control period (2008-09 and 2009-10).

Sri Ch Venkateswarlu stated that apart from the deficit shown by the Licensees in their filings, an amount to the tune of about Rs 9000 Cr is due from the GoAP. All this in turn is affecting the development and consumer services activities of the Licensees. Earlier the

Commission used to get the commitment from Govt in writing and later review the flow of funds to relieve the licensees from debt burden. Objector requested that the Commission may advise the Govt to release all the dues to the Licensees immediately.

Replies of Licensees: The net revenue gap for all the four DISCOMs is projected at Rs. 5,958 Cr for FY 2011-12. However, the actual revenue gap would be determined by the Hon'ble Commission. This gap would be bridged by the subsidy support extended to various categories by GoAP; advising the GoAP is under the purview of the APERC.

As regards earlier years, the amounts are still due from the Govt of AP and FSA claims of 2009-10 and 2010-11(2 quarters) are pending with the APERC.

Commission's view: The revenue requirement and the revenue are determined by the Commission. The Commission, in its tariff orders, ensures that there is no revenue deficit and full cost recovery is ensured and the revenue requirement is met through tariffs. A part of these tariffs may be met by the Govt of AP as communicated by its statement and the letter sent to the Commission under the provisions of section 65 of the Electricity Act 2003.

Though there may be FSA claims and true up claims, there is a regulatory process to ensure their verification and recovery. However, a large part of the earlier years' deficits and dues from Govt are mostly on account of power purchases made beyond the Commission approved volumes in the tariff orders. Consequently,

these amounts are at present outside the regulatory process. This will eventually put a strain on the financial health of the DISCOMS. The Commission therefore directs that;

The DISCOMS to request the Govt of Andhra Pradesh to expeditiously remit the amounts due besides requesting the GoAP to evolve and intimate a time frame within which the Govt intends to bridge these deficits/revenue gaps. The DISCOMS should submit a comprehensive report by 30/09/2011 after due correspondence with the Government on above lines.

Recovery of excess LF incentive paid to HT consumers

81. **Shri BV Raghavulu and Shri M Venugopala Rao** referred to the orders issued by the Commission, vide letter No.APERC/ E-205/DD-Dist/2009, Dt: 22.12.2009, on the 'recovery of excess amounts paid to HT consumers towards LF incentives and sought information on DISCOMs' estimate on the excess load factor incentive amount allowed by them to HT Industries in the State since the introduction of the scheme in 2002-03 and till the scheme is dispensed with, the excess amount allowed DISCOM-wise, the steps taken by the DISCOMs to recover the excess amount, any report, in this regard, submitted by the DISCOMs, to the Commission and also any further directions issued by the Commission.

Replies of Licensees: Consequent to the Commission's direction, no Load factor incentive was paid to HT consumers; no incentives were allowed for consumers who exceeded more than 100% during the FY 2001-02 to 2008-09 (NPDCL); estimated excess amount allowed by EPDCL to HT industries for the period from 2003-04 to 2008-09 is Rs.1.53 Cr and that notices were issued to the HT consumers to whom excess incentive was allowed (EPDCL); excess load factor incentive

amount allowed to HT industries in APSPDCL was Rs.49.28 lakhs out of which Rs.0.17 lakhs has been recovered. The remaining amount is due from two services that got interim order from Court of law (SPDCL); an amount of Rs 179.83 lakhs is to be recovered and of which Rs 10.69 lakhs is recovered. Some of the consumers filed writ petitions in the High Court (CPDCL).

Commission's View: DISCOMs are hereby directed that;

A comprehensive action taken report so far with details of number of such consumers, number of cases where notices were issued, number of cases where writ petitions have been filed, number of cases and extent of recovery made, may be filed by 31/05/2011 for Commission's perusal and review.

Recovery of demand charges from APGPCL

82. **Shri BV Raghavulu and Shri M Venugopala Rao** raised the issue of 'Recovery of Demand charges from APGPCL', consequent to the orders issued by the Commission, vide letter No.APERC/ E-205/DD-Dist/2009, Dt: 06.05.2010. Objectors sought information on APTRANSCO & DISCOMs estimate on the excess amounts paid to APGPCL, whether any report was submitted by the DISCOMs to the Commission, the amounts recovered & the details of the revised demand shares for all the years for which 720Hrs/month were considered against the calendar hours in the billing month.

Replies of Licensees: The amounts, estimated by APPCC (to be recovered from APGPCL) are around Rs 5 Cr. Necessary steps are being taken for recovery of the amount from APGPCL. Further, the amount foregone by DISCOMs towards difference of MD Charges in

H.T. Consumers C.C. Bills will be calculated and necessary steps for recovery of the same will be made in due course.

Commission's View: Examined the objection/suggestion and the responses of the DISCOMs and directs the DISCOMs that;

A comprehensive action taken report may be filed for Commission's perusal and review by 31/05/2011 with year wise and month wise details of such charges together with the calculation sheets to verify and quantify the excess amounts paid may be filed together with the details of extent of recovery made.

True -up claims

83. **Shri BV Raghavulu and Shri M Venugopala Rao** suggested that the Commission may allow claims for true-up or special appropriation of the DISCOMs, APTRANSCO & APGENCO for a particular financial year in the subsequent year itself, instead of considering at the end of the control period (in accordance with the long term tariff principles). Objectors queried the DISCOMs on the progress of their perusal, on this aspect, with APERC.

Replies of Licensees: Hon'ble Commission may take appropriate decision on the same.

Commission's Views: The mechanism of true up claims is governed by the Commission's regulation and would be dealt with accordingly.

CoS Differential but Uniform Tariffs

84. **Shri BV Raghavulu and Shri M Venugopala Rao** pointed that though the CoS for certain categories of consumers in a particular DISCOM are low in comparison to what is obtained in other DISCOMS, the consumers of that DISCOM do not have any benefit or advantage of

such low CoS due to the identical tariffs across the state. Thus, there is no real competition among the DISCOMs and if this is so, one may consider and merge all the 4 DISCOMs.

Replies of Licensees: Under the purview of APERC.

Commission's View: The four DISCOMS on the whole, have revenue deficits and it is only a question of extent of subsidy support that they receive from the Govt. The issue of sharing benefits with consumers through lowering of tariffs comes when the DISCOM starts generating revenue surplus. Better customer service and better operational efficiency are other important considerations in creation of the four independent DISCOMS.

85. The objections concerning the revenue have thus been dealt with.

C: REVENUE FROM TARIFF AND OTHER SOURCES

86. The Commission, in chapter II itself, had already estimated the expected energy sales at 70422 MU for FY2011-12 (para 40) and those findings are adopted here. In estimating the revenue from the above volume of sales, the tariff rates and proposals made, if any are to be considered.

87. The Commission, in this chapter, has examined (a) the tariff proposals filed by Licensees with the Commission for FY2011-12 (b) tariff requests made by consumers in writing and expressed during public hearings conducted by the Commission on Licensees' filings (c) some additional tariff proposals for FY2011-12 and recomputed the revenue and revenue gap for FY2011-12.

(A)Tariff Proposals by Licensees

Time of Season (ToS)Tariff

88. The Licensees proposed to levy time of season(ToS) tariff on LT-II:Non-Domestic/Commercial and LT-III: Industrial consumers at Rs0.50/kWh and HT-I: Industrial, HT-II: General and HT-V: Railway Traction consumers at Rs.0.75/kWh during the months of February ,March, April and May of every year. The proposed levy is in addition to regular applicable tariff for respective consumer categories. The Licensees quoted the Delhi Electricity Regulatory Commission's order in support of their proposal.

Objections/Views: A number of objections/suggestions came up on this proposal from various consumers like Railways, Ferro Alloys Units, FAPCCI, HT (Industrial & Commercial) Consumers, Political Parties like CPI (M) and other organisations and persons. Summary of their objections/suggestions and the replies of the DISCOMs are given below:

- a. Demand pattern is uniform throughout for certain consumers. Hence, ToS cannot be levied on loads which cannot be shifted.
- b. No guarantee by DISCOMs that additional purchases made during the peak season is made available to consumers for whom ToS is proposed.
- c. Not reasonable to levy the ToS on the entire consumption during the peak season as shortages are not 100 percent.
- d. Levy of ToS will lead to increase in cross subsidisation and thus contradict section 81(g) of Electricity Act, 2003 and/or clause 8.3.2 of Tariff Policy.
- e. Proposed levy of ToS violates section 62(3) of E.Act 2003 that stipulates that no undue preference shall be made to any class of consumers.
- f. ToD and ToS cannot be levied together to achieve the same objective of shift of loads from peak to off peak.

- g. Surcharge in the form of ToS tariff shall lead to continuous supply during the peak season, i.e. summer period.
- h. ToS incentive shall be given during the off peak season as spot prices of electricity during the off peak season decline significantly.
- i. The DISCOMs quoted the DERC order in which the ToS not levied on Railway traction.
- j. Tariff structure for ferro alloy units is different from other consumer categories with 85% PLF guaranteed energy.
- k. The proposed ToS on LT II Commercial may be increased from 100/units to 250 units to avoid burden on petty traders.
- l. ToS shall be low for HT and high for LT in view of higher efficiency of usage of electricity by HT Consumers. The proposal is in reverse order.

Replies of Licensees: The Licensees, in response to the above objections, stated the following;

- a) Decided to purchase energy at higher cost to meet the demand. Corridor for such power purchase has been booked.
- b) ToS tariff is proposed to recover the peak power purchase cost keeping in view of socio economic conditions and government policies.
- c) ToS tariff proposed due to non availability of energy during the peak season period.
- d) Demand for energy during February-May months period is higher due to increase in demand by domestic, agriculture for rabi crops and industry.
- e) APGrid can handle only 10000 MW during February-May whereas the demand exceeds 12000 MW.
- f) Industries can reduce the demand during this period and run more during December-January and June-July.
- g) Domestic and Commercial consumers can reduce the demand during the period, hence reducing the demand to be met.
- h) Overall increase cannot reduce the demand during the peak season as consumers continue to use the energy.
- i) ToS tariff will result in either shifting of the loads from the peak period to off peak season or reduction in demand, with which the demand can be met.

Commission's view: The proposal to levy Time of Season tariff is not accepted by Commission for FY 2011-12.

Time of Day (ToD) Tariff incentive

89. The Licensees proposed Time of Day (ToD) incentive of Rs.0.50/kWh for HT-I(A) consumers on the consumption recorded during 12 AM to 4AM on every day during the period of June to January(off season period). These consumers, at present, pay Rs.1/kWh Time of Day(ToD) tariff during 6 PM to 10 PM every day.

Objections/Suggestions: Some objectors/consumers like FAPCCI, Hyderabad, Industries like Ellenberrie industrial gases, Shri B.V Raghavulu and Shri Vennugopal Rao, M/s Trion properties pvt ltd and M/s K. Raheja IT park (hyd) pvt ltd expressed their views on the incentive. The summary these views is;

- a. The industrial shift runs for 8 hours whereas the proposed incentive is only for four hours in a day. It is desirable to extend the incentive for a full industrial shift.
- b. The incentive shall be increased from the proposed level of Rs.0.50/kWh to higher level, preferably at Rs.0.75/kWh.
- c. The time period of ToD incentive shall be increased to longer number of hours, preferably from 11 AM to 5 AM.
- d. It is presumed that there exists off peak period surpluses available for industrial consumption. During Rabi and/or busy agricultural seasons, the expected surplus may not be available that will lead to load management problems. This will further result in revenue loss to Licensees on account of lower tariff.
- e. The Commission already had withdrawn the load factor incentive scheme earlier. Approving the incentive scheme in this backdrop is not desirable as there would be less revenue. This proposal shall not be accepted in view of huge revenue gap of Licensees.

Replies of Licensees: There is no ToD penalty on 2 hours block on either side of the 4 hour block 12:00 A.M .- 4:00 A.M. proposed for incentive. Accordingly, the 8 hour shift for 10:00 P.M. - 6:00 A.M. can still be used with lower tariffs. The ToD incentive was

introduced to reduce the peak demand and to shift the loads from peak hours to off- peak hours.

Commission's View: The Time of Day tariff measure introduced in the Tariff Order for FY 2010-11 has been working satisfactorily. The Commission sees no reason to discontinue this measure. However, the Commission is of the view that there is no need for a separate incentive for the 'Time of Day', since the differential between the two rates is itself a motivation for usage during off peak hours.

Advertisement Hoardings: New Sub Category

90. The Licensees proposed a new sub category entitled "LT-II (B)Advertisement Hoardings" under LT-II:Non-Domestic/Commercial with energy tariff at Rs.7.50/kWh for FY2010-11. The Commission, in some previous tariff orders, also felt that there is a need for such sub category of consumers.

Objections/Suggestions: Some objectors like Shri Thimma Reddy, Shri Gade Diwakar suggested that the tariff for this consumer category shall be:

- a) Much higher than the proposed tariff of Rs.7.50/kWh for this new sub consumer category of advertisement hoardings.
- b) The tariff for this consumer category shall be equal to the tariff paid for procurement of solar energy by Licensees.
- c) Some opined that it should be at Rs.14/kWh as it is fixed in the state of Maharashtra.

Replies of Licensees: The suggested hike by objectors from Rs 6.50 to Rs 14/unit would be very steep. The proposed tariff at Rs 7.50/unit is

in line with the charging of the additional tariff of Rs 1/- by way of time of day tariff at present.

Commission's View: Energy consumed by most of the advertisement hoardings is during peak hours. From the point of view of energy management and to encourage energy conservation, the tariff for this category of consumers has been fixed at Rs.8.50/kWh. The scope of the levy of this tariff is however restricted only to exclusive advertisement hoardings.

Introduction of Voltage wise tariff for HT-I(B) Ferro Alloy Units

91. The Licensees proposed to introduce voltage wise tariff for ferro alloy units with rates at 3.85/kWh, Rs.2.80/kWh and Rs.2.65/kWh at 11 kv, 33 kv and 132 kv respectively for FY2011-12. At present, the ferro alloy units pay tariff of Rs.2.65/kWh irrespective of voltage of supply to them.

Objections/Suggestions: The ferro alloy industry broadly agreed with the proposal but made a request to defer the voltage wise tariff for an year in view of the following.

- a) The tariff differential between the different voltages is very steep and the tariff at 11 KV should be fixed at Rs.3/kWh.
- b) The industry cannot instantly absorb the proposed tariff hike for 11 kV and 33 kV in the form of voltage differential tariff.
- c) Even if the industry wishes to shift to higher voltage, it cannot do so immediately in view of right of way problems for 132 kV transmission towers.

Replies of Licensees:The Licensees stated that the voltage wise tariffs proposed have factored the wheeling charges and the losses at different voltages.

Commission's View: The representation is considered and the proposal for voltage wise differential tariff is hereby approved, but with a direction that it shall be made effective from 01-04-2012 so as to enable the industry to make the transit.

Reduction in Minimum Charges for LT-I: Domestic

92. The Licensees proposed to levy uniform minimum charges for LT-I: Domestic Consumer category with single phase supply at Rs.25/month in the place of Rs.25/Month for consumers with connected load upto 250 Watt and Rs.50 for consumers with connected load above 250 Watt.

Objections/Suggestions: Shri BV Raghavulu and Shri Venugopal Rao welcomed the proposal and they however stated that the benefit should be limited to poor consumers through restricting it upto consumption of 50 kWh/Month. Their contention is that the benefit shall not be extended to all consumers.

Replies of Licensees: The reduction in minimum charges from Rs. 50 to Rs. 25, as proposed, is applicable to LT-1 Domestic Category irrespective of the connected load and the monthly consumption of a consumer.

Commission's View: The measure was suggested by the Commission as a direction in the earlier year in view of a large number of cases and complaints about the poor being questioned about their load and consequently being subjected to a levy of Rs.50/- by holding that their load was above 250W. The Commission therefore views that the purpose of extending relief to such category of consumers is better served by extending the load limit to 500W from the present 250W

rather than by what the DISCOMs have proposed. The Commission is therefore approving the proposal as modified hereunder.

| | | |
|-----------------|---|-------------------|
| LT-I Domestic | | |
| Upto 500 Watts | : | Rs.25/- per month |
| Above 500 Watts | : | Rs.50/- per month |

Introduction of kVAh based billing

93. The Licensees proposes kVAh billing in place of kWh billing for computation of energy charges and remove the present applicable factor penalty clause for FY2011-12.

Objections/Suggestions: The Railways represented by the South Central Railway and the East coast railway, objected for the following reasons, viz., (a) In the Tariff Order of 2009-10, the Commission implemented kWh billing for all HT consumers, with penalties of 0.5% to 3% of energy charges for every 0.01 fall in P.F. The Railways have invested huge amounts for Power Factor correction equipment for maintaining high power factor of 0.96 to 0.98 (b) Other State Electricity Boards / Commissions have provided incentives for HT consumers, maintaining power factor above 0.95. The proposal, now levies a charge on them even though they maintain PF above 0.95. They pleaded that the Commission that the existing tariff based on kWh consumption may be restored or otherwise the tariff may be fixed at Rs.4.00 per unit as per National Tariff Policy.

The Ferro Alloys Units represented requested to exempt them from kVAh billing, stating that all Ferro Alloy industries are meeting the requirement of 0.95 Power

Factor. They submitted that once kVAh billing is introduced, the consumer tends to overcompensate the reactive power requirement to make doubly sure that kWh is as close to kVAh and any over compensation brings the PF to leading and the lead energy will be pumped to the Grid and in turn the DISCOMs may have to introduce reactors to compensate the lead energy. This will increase the fixed cost to the licensee and the system will end up with more losses.

FAPCCI (The Federation of Andhra Pradesh Chamber of Commerce and Industry) stated that at present no penalties are levied for the categories, maintaining PF between 0.95 to 1.00; with the proposed kVAh billing, all the consumers, except those who maintain power factor at unity, will get penalized with an additional tariff. Thus, it is an indirect heavy increase in the financial burden of presently disciplined consumers who are maintaining PF at 0.95 or above. Further, they stated that the Licensees appear to have considered only such part of the Grid Code, which supports their argument while ignoring the overall intention of the Code. They pointed out that once kVAh billing is introduced, to block the lead component, consumers tend to over compensate the reactive power requirement, (to doubly ensure that kVAh is nearer to kWh) and such over compensation may incidentally bring down the recorded MD. Secondly, as a result of over compensation by consumers , the lead energy is pumped into the network of Licensees and the Licensees may have to compensate the lead reactive energy by installing reactors or allow it to flow to compensate for their transmission requirements. If the first

option is chosen, Licensees have to increase the fixed costs and in the second option, Licensees may end up in more system losses. It was further stated that, in spite of these objections, if Commission is convinced of implementing the kVAh based billing against grid standards of 0.95 power factor, a 5% relief in tariff may be allowed, to compensate the additional financial burden on consumers.

M/S Trion Properties Pvt Ltd and M/e Raheja IT park hyd (p) Ltd stated that kVAh based billing would increase their tariff by 5.3%. They stated that for 1 unit of active power (1kWh), the consumer would consume at the specified normative power factor of 0.95, apparent power(kVAh) of 1.053 units i.e 5.3% more than what the consumer is supposed to pay. Thus, it was stated that it has an indirect impact on billing. This is a clear discrimination among customers which is not justified.

Sri BV Raghavulu and Sri M Venugopala Rao suggested that it should be confined to massive consumers of power like HT and other industries and HT commercial categories only.

Replies of Licensees :The objective in introducing this measure was to ensure reduction in line losses which occur due to the low power factor. The present three part tariff structure for HT consumers would be replaced by two part tariff with forfeiture of power factor surcharge. The kVAh based billing calculates accurately the energy charges for the contracted load. The licensees therefore expect the consumers to have Unity Power Factor. In case of overcompensation of the power factor by the consumer and in case a leading power

factor situation arises, there might be some impact on the line loss. Finally, kVAh based billing is for encouraging the consumers to maintain near-unity power factor

Commission's View: The history of this provision to switch over to kVAh based billing needs a bit recapitulation. The proposal originated to reduce the reactive power drawl from the system which is undesirable for better system management. The system efficiencies improve and losses are reduced if unity power factor is achieved.

In the ARR and tariff proposals for 2010-11, M/s EPDCL proposed kVAh based billing. The detailed reasons are available in its ARR filing for 2010-11. A directive was then given by the APERC in the last year tariff order 2010-11 to the four DISCOMS to file suitable proposals in their ARR and tariff proposals for 2011-12. The DISCOMS have accordingly proposed the kVAh based billing now. In the meanwhile, the proposal to switch to kVAh based billing with complete technical details was also put on the APERC website on 18/10/2010 and public opinion was invited.

Thus the proposal was in public domain for quite some time and is nothing new. It is also illustrative to point out that many States have already switched over from kWh based billing to kVAh based billing.

The kVAh based billing drives the consumer to reach unity power factor. As a result the PF will reach to near unity. This would result in less consumer demand and less demand charges for the consumer. This in turn will lead to reduced demand on the system, reduction in I^2R losses, improves the system voltages, increases the available

transmission capacity and enhances the margin to voltage collapse. It is a win-win situation for Distribution Company, Transmission Company and Consumers. The present meters are capable of recording kVAh readings and there are no operational issues.

The Commission hereby, approves the proposal for kVAh based billing instead of kWh based billing. The kVAh billing shall be applicable for all HT Consumers and LT Consumers for whom trivector meters have been provided for. No power factor penalty shall be levied when the energy billing is done based on kVAh. The Commission has accordingly made suitable changes in the present tariff schedule.

Increase of maximum contract load for Rice mills

94. The Licensees proposed to enhance the maximum contracted load from existing 75 HP to 100 HP to avail supply under LT Cat III (A) exclusively for rice mills.

Objections/Suggestions: The FAPCCI stated that while they do not object to rice mills being given this facility, such a facility may be extended to all LT-III industries as it would help them too.

Replies of Licensees: The proposal for rice mills was included as per Govt of AP's directions. Other industries which seek a similar treatment may approach APERC.

Subsequently, the Govt reiterated the above direction to let rice mills have loads upto 100 HP under LT-III category in their letter no and date , to the commission. It was also indicated that the Govt would bear the burden of any revenue loss and provide subsidy to

DISCOMS u/s 65 of the Electricity Act 2003 as a result of enhancing the load limit to rice mills.

Commission's View: This is a technical issue related to load and not related to tariff/ revenue. This issue will be examined separately.

Provisional Collection of FSA Charges (25p/unit)

95. The DISCOMS stated that they have submitted FSA claims for the year 2009-10 and for the first two quarters of FY 2010-11. However the orders are yet to be passed. Pending issue of such orders, it was requested that they may be permitted to collect FSA charges on adhoc basis at the rate of Rs 0.25/unit (25paise /unit) till such time the FSA orders for FY 2009-10 and for the 2 quarters of 2010-11 are issued by the Commission.

Objections/ Suggestions: FAPCCI stated that when the APERC authorized the DISCOMs to collect FSA for the 4 quarters of FY 2008-09 at the rates, 12, 40, 90 & 36 paisa respectively, it was noticed that there were certain legal deformities, in addition to non-observance of time limits prescribed for filing of proposals by DISCOMs and as a result of the same, the orders of APERC in respect of FSA 2008-09 were suspended on interim basis by the Hon'ble High Court. The matter is yet to be disposed off. The same deformities and violations of time limit exist in respect of the claims now proposed in respect of FSA for 2009-10 and 1st half year of 2010-11. Hence it is not desirable that the APERC again takes unnecessary risk to consider the request of DISCOMs to authorize them to collect FSA at 25 paisa

per unit on a provisional basis, especially when they are liable for forfeiture.

Sri BV Raghavulu and Sri M Venugopala Rao while seeking to know as to whether the DISCOMS collected/collecting the FSA amounts allowed for FY 2008-09, also wanted to know the reasons for the hefty FSA claims of the DISCOMs. They also suggested that as the rules and regulations already provide for a recovery on quarterly basis, there is no need for an interim, adhoc levy of provisional FSA of Rs.0.25 per unit from non-agricultural consumers till such time the orders on FSA are issued.

Dr M Thimma Reddy and Sri Gade Diwakar also observed that the DISCOMs can as well furnish all the relevant information required by APERC and get their FSA claims, pending before the Commission, approved.

Replies of Licensees: The DISCOMs have already filed FSA claims for four quarters of FY 2009-10 and three quarters of FY 2010-11 in time. These are currently pending for disposal by the Hon'ble Commission. The total amount recoverable through FSA is Rs.1286 Cr for three quarters of FY 2010-11. Since the DISCOMs are already burdened financially, the Hon'ble Commission is requested to consider the provisional collection of FSA until such time that the final orders are passed.

Commission's View: In view of the existing legal provisions and regulations enacted already, the levy of adhoc FSA is not permissible. The proposal is therefore not accepted.

Application of Monthly Loss Figures

The issue has already been dealt with in Chapter II.

Request for determination of cross subsidy surcharge for 2011-12

96. It was requested by the DISCOMS that the Commission may determine and declare cross subsidy surcharge for open access consumers for the year 2011-12 as per provisions of section 42(2) of Electricity act 2003.

Objections/Suggestions: M/s Trion properties and M/s Raheja IT park stated that the methodology specified in the National tariff policy, wherein the CSS is determined based on marginal cost of supply be used rather than the methodology of the commission used in 2005 order wherein the difference between average realization and cost of supply was taken. They also stated that it is prudent if the consumer opts for open access since the DISCOM need not buy costly power. They also requested that cross subsidy surcharge should be waived if power is procured during load shedding period.

Replies of Licensees: No specific view expressed by Licensees.

Commission's View: Commission decided to deal with the proposed request of the DISCOMs for determination of cross subsidy surcharge for FY 2011-12 separately.

Declaration of seasonal period

97. It was stated by M/s NPDCL, that at present, while levying tariff on HT consumers, vide clause 4(iv) in Annexure -D ,Part A of the tariff order 2010, (page 173) there is a condition that the seasonal period once declared cannot be changed during the Tariff year in which it is

declared. But there is no mention on declaration of seasonal period that is to be done either before commencement of Tariff year or during a Tariff year and also whether the seasonal industrial consumers are needed to declare season period every year or while entering into an agreement.

The request is to include a new condition on declaration of season period to the effect that the seasonal industrial consumer has to declare his seasonal period for every Tariff year before commencement of the tariff year. Further, if declaration of seasonal period is not done by the consumer, then, the consumer shall not be entitled to this concession during the current year.

Commission's View: The present terms prevent change of season during the tariff year in which it is declared. Secondly, the terms also seem to convey that the season has to be declared specifically at the time of entering into an agreement. Thus at present it is open to interpretation that the period declared once as "season" (the other periods of the year become then "off season") at the time of entering into an agreement, can not be changed. Thus, there is some merit in the proposal of DISCOM. However, asking every such seasonal customer to declare their season every year and further, forfeit the seasonal benefits if such declaration is not received before the commencement of tariff year, is not consumer friendly and impose unnecessary hurdles and compliance cost on every customer. It is therefore advisable to make declaration obligatory on only those who seek change rather than make everyone file declaration.

The Commission is therefore of the view that, any 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.

For the current tariff year 2011-12, change can be made by any consumer by filing a declaration, duly intimating such change by 30/6/2011.

D: ADDITIONAL TARIFF PROPOSALS

98. The proposals made by the Licensee DISCOMS have been dealt with. Even with these proposals, the net revenue impact, as per licensee’s own estimates, would have been around Rs 450 Cr. The other ways and means are now examined.

Customer and Fixed Charges

99. At present, the overall unit cost of retail supply is around Rs.3.79 for all four licensees, of which more than 50 percent is fixed component (network cost, SLDC expenses and fixed cost component of power purchase cost). The expense in respect of fixed component of retail supply cost is a “must” for retail supply of licensees and is not sensitive to the energy drawals of the Licensees for supply to retail consumers in their respective supply areas.
100. In the present tariff structure, the recovery of cost is primarily through levy of a) customer charges, b)fixed/demand charges and c)energy charges. The revenue from levy of customer charges and fixed/demand charges does not correlate with the quantum of energy

consumed by consumers. The revenue from these charges, ideally, should cover the fixed component of retail supply cost.

101. The recovery of cost through fixed and customer charges is only Rs.0.35/kWh on average for four licensees whereas the fixed component of retail supply cost is of the order of Rs.1.87/kWh. Further, these charges have not been revised for last several years. In these circumstances, the Commission feels that there is a need to enhance fixed charges by
- enhancing the existing charges
 - fresh levy of fixed/Demand charges wherever they are not being levied at present
 - combination of both
102. The Commission has therefore proposed to revise the customer charges (Table 34), levy of fixed charges (Table 35) and enhancement of fixed/demand charges (
103. Table 36) for FY 2011-12 as follows:

Table 34: Changes in Customer Charges for FY2011-12

| Consumer Category | Rs./Month | |
|-----------------------------------|----------------------|----------------------|
| | Existing Rs/month | Approved Rs/month |
| LT-I Domestic | | |
| 0 - 50 | 15.00 | 25.00 |
| 51 - 100 | 20.00 | 30.00 |
| 101 - 200 | 20.00 | 35.00 |
| 201 - 300 | 20.00 | 40.00 |
| 300-500 | 20.00 | 45.00 |
| >500 | 20.00 | 45.00 |
| LT-II Non-domestic/Commercial | | |
| LT-II(A): Non-Domestic/Commercial | | |
| 0-50 | 20.00 | 30.00 |
| 51-100 | 20.00 | 35.00 |
| >100 | 20.00 | 40.00 |
| LT-II(B) Advertising Hoardings | NA | 45.00 |
| LT-III(B) Industrial Optional | 750.00 | 1125.00 |
| LT-VII - General Purpose | 20.00 | 40.00 |
| LT-VIII-Temporary Supply | 20.00 | 40.00 |

| | | |
|------------------------------------|---------|---------|
| All other LT categories | 20.00 | 30.00 |
| HT consumer categories upto 66 kV | 750.00 | 1125.00 |
| HT consumer categories above 66 kV | 1500.00 | 2250.00 |

Table 35: Levy of Fixed/Demand Charges for FY2011-12

| Consumer Category | Charge | |
|--|---------------|-----|
| LT- III(A) :Pisciculture/Prawn culture | Rs./HP/Month | 50 |
| LT-III (A) :Sugarcane crushing | Rs./HP/Month | 50 |
| LT-VI(B):Minor/Major Panchayats | Rs./kW/Month | 10 |
| LT-VII(A): General | Rs./kW/Month | 20 |
| LT-VII(B):Religious Places | Rs./kW/Month | 10 |
| HT-VI -Townships and Colony Lighting | Rs./kVA/Month | 250 |

Table 36: Levy of Fixed/Demand Charges for FY2011-12

| Consumer Category | Charge Rs. | | |
|----------------------------------|---------------|----------|---------|
| | | Existing | Revised |
| LT-III(A) Industrial | | | |
| Industrial Normal | Rs/HP/Month | 37 | 50 |
| Industrial Optional | Rs./kVA/Month | 100 | 150 |
| Seasonal Industries | Rs/HP/Month | 37 | 50 |
| LT-III (B) Industrial (Optional) | | | |
| SSI Units | Rs./kVA/Month | 100 | 150 |
| Seasonal Industries | Rs./kVA/Month | 100 | 150 |
| LT-VI(B):Municipal Corporations | Rs./kW/Month | 20 | 30 |

Tariff Rationalisation-LT-I: Domestic

104. This category of consumers is a subsidised category, revenue from tariff is less than the cost. The cost coverage through tariff proposed by Licensees for FY2011-12 is at 59.83 percent on average for all licensees and ranges from 47.85 percent for NPDCL to 64.69 percent for CPDCL. The details are given in Table 37.

Table 37: LT-I: Domestic: Cost Coverage at Tariff filed by Licensees

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|------------------------------------|-------|-------|-------|-------|-------|
| Allocated Cost(Rs.Cr.) | 3003 | 1525 | 1145 | 1988 | 7661 |
| Revenue at Proposed Tariff(Rs.Cr.) | 1943 | 842 | 548 | 1250 | 4583 |
| Revenue to Cost Ratio(percent) | 64.69 | 55.24 | 47.85 | 62.91 | 59.83 |

105. The Commission, as per tariff setting procedure adopted for full cost recovery (Chapter-VIII), covers the above deficit in two stages, a) allocation of available surplus (cross subsidy) from other categories and b) revise the energy charges to meet the remaining deficit after allocation of surplus from other categories.
106. The Commission, with constraints to ensure reduction of cross subsidies and make tariff closer to cost and after examination of the existing telescopic tariff structure, has decided to rationalise the tariff in the following manner.
- a) Splitting the existing tariff slab of above 300 kWh per month into two tariff slabs 301-500 /kWh per month and above 500 kWh per month.
- b) Keeping the energy charges higher than the charges filed by Licensees for tariff slab of 201-300/kWh, 301-500/kWh and above 500/kWh per month.
107. The details are given in Table 38.

Table 38: LT-I: Domestic: Commission Proposed Tariff Slabs and Charges

| Existing Tariff Slab (kWh/Month) | Energy Charge (Rs/kWh) | Tariff Slab for FY2011-12 (kWh/Month) | Energy Charge (Rs/kWh) |
|----------------------------------|------------------------|---------------------------------------|------------------------|
| 0 - 50 | 1.45 | 0 - 50 | 1.45 |
| 51 - 100 | 2.80 | 51 - 100 | 2.80 |
| 101 - 200 | 3.05 | 101 - 200 | 3.05 |
| 201 - 300 | 4.75 | 201 - 300 | 5.23 |
| >300 | 5.50 | 301-500 | 6.00 |
| | | >500 | 6.25 |

108. With the above measures, the additional revenue from energy charges is Rs.121 Cr. and the cost coverage through tariff improved marginally from 59.83 to 61.40 percent for FY2011-12. Any further attempt to increase

recovery of costs, would entail higher tariffs and the jump from existing tariff would have been steep. Thus the above tariff structure and rates were proposed. The details are given in Table 39.

Table 39 LT-I: Domestic: Cost Coverage at Tariff Proposed by Commission

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--|-------|-------|-------|-------|-------|
| Allocated Cost(Rs.Cr.) | 3003 | 1525 | 1145 | 1988 | 7661 |
| Revenue at Proposed Tariff by the Commission(Rs.Cr.) | 2015 | 858 | 554 | 1276 | 4704 |
| Revenue to Cost Ratio(percent) | 67.10 | 56.31 | 48.39 | 64.22 | 61.40 |

Energy Charges (Excluding LT-1: Domestic)

109. The Commission has reviewed the existing energy charges for different consumer categories. The Commission has decided to keep the energy charges higher than the charges proposed by the Licensees for FY2011-12 for select LT and HT consumer categories for whom the proposed tariff is less than the Cost of Service (in most cases). The Commission accordingly proposes the energy charges for different consumer categories as given in Table 40.

Table 40: Enhancement of Energy Charges

| Consumer Category | Energy Charge (Rs./kWh) | |
|---|-------------------------|----------|
| | Existing | Proposed |
| LT-III(A): Industrial | | |
| Pisciculture/Prawn culture | 0.90 | 1.25 |
| Sugarcane crushing | 0.50 | 0.75 |
| LT-IV - Cottage Industries & Dhobighats | 1.80 | 2.30 |
| Category V (A) - Agriculture DSM | | |
| Corporate Farmers & IT Assesses | 1.00 | 1.50 |
| Wet Land Farmers (Holdings >2.5 acre) | 0.20 | 0.30 |
| Dry Land Farmers (Connections > 3 nos.) | 0.20 | 0.30 |

| Consumer Category | Energy Charge (Rs./kWh) | |
|---|-------------------------|----------|
| | Existing | Proposed |
| Category V (A) - Agriculture Non-DSM | | |
| Corporate Farmers & IT Assesses | 2.00 | 2.50 |
| Wet Land Farmers (Holdings >2.5 acre) | 0.50 | 0.75 |
| Dry Land Farmers (Connections > 3 nos.) | 0.50 | 0.75 |
| Wet Land Farmers (Holdings <= 2.5 acre) | 0.20 | 0.30 |
| Dry Land Farmers (Connections <= 3 nos.) | 0.20 | 0.30 |
| Category V (B) - Agriculture (Tatkal) | 0.00 | 0.40 |
| LT-VI(A) Street Lighting | | |
| Minor Panchayats | 1.56 | 1.87 |
| Major Panchayats | 2.08 | 2.50 |
| Nagarpalikas & Municipalities (Gr 3) | 2.74 | 3.29 |
| Municipalities (Gr 1&2) | 3.26 | 3.59 |
| Municipalities Selection Special Group | 3.53 | 3.88 |
| Corporations | 3.79 | 4.17 |
| LT-VI(B) PWS Schemes | | |
| Minor/Major Panchayats | | |
| Upto 2500 units/Yr | 0.20 | 0.70 |
| Above 2500 units/Yr | 0.50 | 1.00 |
| HT-I Industrial Colony Consumption (11 kv, 33 kv and 132 kv) | 4.00 | 4.50 |
| HT-VI: Townships and Colony Lighting(11 kv, 33 kv and 132 kv) | 4.00 | 4.50 |
| Composite Public Water Supply Schemes (11 kv, 33 kv and 132 kv) | 0.35 | 1.00 |

110. As can be seen from the above table, the proposed revision is mostly for categories of consumers who are already subsidised to a large extent and are paying nominal charges. The revision is in the range of

20 to 50 paise per unit and even with this, the tariff is still below the cost of service (in most of the cases). The Commission accordingly, has proposed the tariffs as depicted above in the table and taken into account to compute the revenue for the licensees.

Revenue and Revenue Gap for FY2011-12

Revenue from Tariffs

111. The Commission, after having modified the rates and charges as enumerated above, has recomputed the revenue from tariffs for FY2011-12 while adopting;
- a) Sales volumes approved by the Commission for FY2011-12 as given in para 40 of Chapter II.
 - b) Licensee proposed charges and rates with the modifications made by the Commission as depicted in the tables numbered 34 to 36, 38 and 40 discussed in this chapter.
 - c) Charges to be paid by Rural Electric Cooperatives to respective Licensees for FY2011-11(determined separately by the Commission)

Non Tariff Income

112. The Commission, after examination of the filings made by Licensees and verification of the annual accounts for previous year(s), has concluded that the income from sources other than tariff (non tariff income & others) will be at Rs.563 Cr. for FY2011-12.

Revenue from Tariff and Other Sources

113. The total revenue for FY2011-12 for all four Licensees is estimated at Rs.21812 Cr. The details are given in Table 41.

Table 41: Revenue Recomputed for FY2011-12(Rs.Cr.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|--------------|----------|---------|---------|---------|----------|
| Revenue from | 10079.02 | 3952.21 | 2091.31 | 5126.16 | 21248.70 |

| | | | | | |
|-------------------------------|----------|---------|---------|---------|----------|
| Tariff | | | | | |
| Non-Tariff Income & others | 242.51 | 61.94 | 91.41 | 167.59 | 563.45 |
| Total Revenue | 10321.53 | 4014.15 | 2182.72 | 5293.75 | 21812.15 |

Revenue Gap for FY2011-12

114. As the expected revenue is Rs.21812 Cr. for FY2011-12 as against the revenue requirement of Rs.25958 Cr. determined by the Commission, the Licensees will have a revenue deficit of Rs.4146 Cr. for FY2011-12. The details of revenue requirement, revenue and revenue gap are given in Table 42.

Table 42: Revenue Gap with the Change in Tariff for FY2011-12(Rs.Cr.)

| Item | CPDCL | EPDCL | NPDCL | SPDCL | Total |
|-------------|----------|---------|---------|---------|----------|
| ARR | 11433.97 | 4383.91 | 3850.68 | 6289.34 | 25957.90 |
| Revenue | 10321.53 | 4014.15 | 2182.72 | 5293.75 | 21812.15 |
| Revenue Gap | 1112.44 | 369.76 | 1667.96 | 995.58 | 4145.75 |

115. The Commission has thus arrived at the revenue and revenue deficit for FY 2011-12. This deficit would be bridged by undertaking an exercise of determination of tariff rates and charges for full cost (ARR) recovery for FY2011-12. The Commission has adopted the ARR, Revenue and Revenue Gap mentioned in this chapter for this exercise which is discussed in Chapter VIII.

CHAPTER-V OBJECTIONS/SUGGESTIONS RELATING TO TARIFF AND REVENUE

Introduction

116. This chapter deals with the specific requests of individual organisations/ consumers / groups for re-categorization, requests for concessional tariff and requests for modification of load limits and issues relating to voltage surcharge.

GMR Airport, Hyderabad for Reclassification of Tariff Category

117. M/s GMR Hyderabad international airport ltd (GHIAL) began operations in 2008. The petitioner M/s GHIAL, is availing H.T. power at a specified voltage of 220 KV for a Contracted Maximum Demand (CMD) of 13000 KVA with a contracted load of 10400 KW for its Aeronautical/aviation activities and the operations connected therewith and incidental thereto. The airport is categorised under HT-II commercial. It claimed that its service has to be categorized in the proposed tariffs under HT category I (A) Industrial-General.

It had filed a request petition for treating it as HT-I (industrial) consumer in 2009-10 and 2010-11 tariff proceedings too. The concerned DISCOM, M/s CPDCLs' stand was that the airport can not be categorized as "industrial" based on utilisation of power since it can not be treated as industrial consumer as per the definition given for industrial consumer in the tariff order. In the tariff order for 2010-11 ,a directive was given to the concerned DISCOM, M/s CPDCL, to make a study of usage and billing pattern ,the cost of service and to submit a report to the Commission.(Para 321 on page 155 of the

tariff order 2010-2011). Subsequently, the consumer, M/s GHIAL had filed an appeal against the tariff order for FY 2010-11 of APERC before the Appellate tribunal for electricity, New Delhi. The appeal is admitted and the matter is now before the Hon'ble APTEL.

The present objections during these 2011-12 tariff proceedings, reiterate their claim as HT-I industrial category consumer and was "aggrieved" that the DISCOM, M/s CPDCL had not filed the report sought by the Commission. It also stated that in the reply given by the DISCOM, instead of arriving at conclusions regarding consumption for aviation and consumption for non-aviation activities and the cost of service, M/s CPDCL chose to compare the tariffs charged at Hyderabad and at other airports at Delhi, Mumbai, Chennai and Bangalore. It was stated that status was the question, not the tariff across other airports. It also stated that tariff is dynamic whereas the status is static.

M/s GHIAL also stated that the definition of "industry" adopted by M/s CPDCL was obsolete and has no relevance to the present day activity in different sectors. It cited Industrial disputes act, payment of wages act, Provident fund act, Airport authority of India act 1994, and submitted that the petitioner's service should be treated as "industrial service" and not "others."

The petitioner then cited the State support agreement entered into with the Govt of Andhra Pradesh, which had provided that Govt would not take any action to treat GHIAL airport less favourably than other any other airport operator in India. It then cited that Mumbai,

Delhi, Chennai airports are being categorised as special category / industrial tariff category.

It cited the decision of the Hon'ble Delhi Electricity Regulatory Commission in the tariff order 2009 wherein it was stated that till the time the commercial activities within the airport are separately metered, an average tariff would be charged from DIAL (Delhi Intl Airport) which shall be lower than the existing non domestic charges applicable to them.

It cited the decision of the Appellate Tribunal for Electricity, New Delhi in order dated 25.2.2009 in Appeal No. 106/2008 in the matter of Mumbai International Airport (P) Ltd., wherein, it was observed that "Airport" being a public utility service should be given a special consideration and should not be exposed to commercial tariff.

It submitted that the HT-II tariff has a high element of cross subsidy surcharge and the cost of supply is not proportionate to the tariff charged. It was stated there should not be an attempt to "mulct" the Co by asking it to bear the cross subsidy surcharge to recoup the deficiency in the revenue as it would affect the petitioner's operations.

It stated that industries with far less investment and far less utilisation of power and that too at lower voltages are being classified as HT-I -Industrial-general whereas the petitioner avails power at 132KV and consumes large quantities and is categorised as HT-II-others.

Without prejudice to these basic objections, the Company submitted that 82% consumption relates to aeronautical operations and only 18% relates to non aeronautical operations and even these are for public convenience. It therefore pleaded that the categorisation should be HT-I :Industrial-General.

Finally, it stated that the ferro alloy industry and the railways are classified separately. The information technology, though a service, was treated as “industrial”. Thus, the consumer stated that their service is being discriminated against contrary to the state support agreement entered into with the govt of AP.

Apart from the directions to classify it in HT-I category, it also asked for a direction to M/s CPDCL to refund the amounts collected so far.

Reply of APCPDCL: Aeronautical operational activities do not come under Industrial activity as per definition of the HT - Category-I (Industrial) in Tariff order. Thus, by no means RGI airport could be categorized under HT-I Industrial category. The comparisons with others were also refuted.

The Connected load particulars of GMR International Airport as per inspection report was as under:-

| Purpose | Loads in KW | % of load |
|---------------------|-------------|-----------|
| Airport Usage loads | 16174 | 61% |
| Commercial Loads | 10312 | 39% |
| Total | 26486 | 100% |

Compared to the tariffs charged at Delhi, Mumbai, Chennai airports, the tariffs charged for GHIAL are lower.

Shri M.Venugopala Rao and Shri B.V.Raghavulu reiterated the DISCOM view that there is no industrial activity and that the tariffs at Hyderabad are lower than at Mumbai/Delhi/Chennai and requested that GHIAL may not be categorised as HT-I.

Commission's View: The consumer is requesting for treating him under HT-I category(Industry) on the ground that the activity of the GMR airport needs to be classified as "Industry".

In the alternative the consumer is requesting that the activities of the GMR airport should be segregated into the following two categories:

- (i) Directly Aviation related
- (ii) Commercial oriented

The consumer is requesting that, after segregation, atleast the consumption attributable to item (i) should be charged treating it as HT-I (Industry).

A report has already been called by the Commission in the Tariff Order issued on 22nd July 2010. The report has been received on 14-02-2011. The report has been examined. As found from this report, the ratio of Aviation Vs Commercial load works out to 61:39. On the other hand, the consumer has been pressing for segregation at 82:18. The matter is still under the consideration of the Commission. The Commission is of the view that the report does not cover in sufficient detail all the points required to be covered therein. Further details are being sought for from the DISCOM.

The Commission is also in the process of taking a decision regarding the methodology of charging for such activities and situations where clearly a portion of the activity is of a different nature as compared to rest of the activities. The Commission is proposing to take a policy decision as to how consumers with such distinct activity profile should be charged. A final decision will be taken by the Commission after the above policy is finalised, duly taking into consideration the segregation into sub activities, which itself needs to be scientifically established.

LT-II:Non-Domestic/Commerical: Sub Categories:Indus Towers

118. The consumer is in the business of operating telecom (mobile phone) towers for various telecom companies. In all, about 13275 towers in the State of AP are operated by this petitioner. It was submitted that the connected load of a telecom tower in the AP state varies between 2.25 kW to 25 kW per site/tower with more than 80% towers in 2 to 12 kW range. It was stated that the energy is billed as LT-II commercial category.

The consumer stated that the tariff applicable for telecom towers under LT-II category is very high compared to the average cost of supply. The energy expenses of the telecom operators constitute nearly 25% of the total operating cost. The high cost of energy prevalent in the state affects the operational costs of Indus Towers Limited leading to higher telecom tariffs in the state.

The consumers requested for rationalization of slabs within commercial category and re-categorization of telecom towers as a

separate sub category within the existing LT-II(commercial) category. It gave a comparative table of tariffs in the states of Jammu Kashmir, Chattisgarh, Uttarachal, Haryana, Himachal Pradesh, Gujarat, Rajasthan, Delhi, UP, MP, Orissa and concluded that the tariffs vary from 320 paise (J&K) to 590 paise per unit (Orissa) in these states where as it is 650 paise/unit in AP. The consumer also listed out the commercial categories and slabs in some of these states and submitted that the slabs for commercial categories should be rationalised.

Finally, the consumer stated that as the telecom tower load is like base load and is fairly constant over 24 hr period, these towers may be reclassified separately as a sub category within the existing LT-Commercial category.

The consumer also requested for a single point billing for such consumers who may have multiple bills.

Replies of Licensees: The telecom towers business is purely commercial in nature and it comes under existing LT- II category as per the Tariff Order. Any relaxation in the tariff is not acceptable as it affects the Licensees finances. It was stated that no further sub-categories are required in this category as suggested by the consumer; however, the matter will be under the purview of the Commission.

Commission's View: As regards the request for sub categorization under LT-II (commercial), it is not possible to differentiate consumers based on pattern of usage.

The request for common billing cannot be considered as each service connection is a separate entity governed by respective Terms & Conditions, billing procedures, payment patterns , defaults etc.

Objections/Suggestions of A.P.Spining Mills Association

119. The A.P.Spining mills association stated that Spining mills constitute a separate and distinct category with regard to the nature of industry and the manner of consumption of electricity, and as such the spinning mills are to be categorized separately and treated appropriately in the determination of tariff. Spining mills have a high load factor and hence they ought to be given a reduction in the energy charges for consumption beyond a threshold load factor. If spinning mills with high load factors are not given a reduction in the marginal consumption charges, beyond the threshold load factor, the recovery of fixed costs from the spinning mills would be excessive and unreasonable.

Replies of Licensees: As per the definition of the ‘Industry’ mentioned in the Tariff Order issued by the Commission, Spining Mills fall under Industrial category as it is a process industry. Energy charges do not contain any fixed component. The demand charges are fixed in nature and cover the finance costs towards network maintenance and development. Costs are allocated to each category of consumers based on their co-incident demands, non-coincident demand and connected load of that category.

Commission’s View: It is not possible to differentiate consumers based on pattern of usage.

Separate category for IT Industry

120. **M/s K Raheja IT Park & M/s Trion Properties Ltd., Cyberabad** submitted that separate HT/LT category may be created for IT industry without resorting to tariff hike, not only to protect the existing IT industry but also to encourage the new IT clients in the interest of state & employment opportunities to the educated youth.

Replies of Licensees: The current tariff in A.P state for IT industries is comparatively very attractive than the neighbouring states. Even after the introduction of Time of Season tariff, the tariff would still be much less comparatively. The issue of creation of separate category for IT industry has to be studied by the Licensees in order to take a decision.

Commission's View: It is not possible to differentiate consumers based on pattern of usage.

Open Access and Cross Subsidy Surcharge

121. **M/s K Raheja IT Park & M/s Trion Properties Ltd., Cyberabad** submitted that the Commission may direct the Licensees to allow Open Access to the consumers who intend to procure power during load shedding period from the third party and the Licensees may be directed to ease the procedures to obtain the required permission. It was also requested that cross subsidy surcharge, for such transactions, may be waived.

Replies of Licensees: No specific view is expressed by Licensees.

Commission's View: The Commission will examine the feasibility to accommodate these requests when Licensees submit proposals for the R&C measures.

Special Tariff for Caustic Soda Industry

122. The **General Manager, Andhra Sugars Ltd** stated that the power intensive Caustic Soda industry deserves special Tariff on par with Ferro Alloys industries as power consumption in Caustic Soda industry per MT is higher than Ferro Alloys industry.

Replies of Licensees: No specific view is expressed by Licensees.

Commission's views: It is not possible to differentiate consumers based on pattern of usage.

Tariff Concession for Petty Traders

123. The **Kurnool District Chamber of Commerce & Industry** submitted that the consumption of power for petty traders using bare minimum appliances like one fan, a couple of lights and a plug point exceed 100 units. They are penalized with the highest tariff Rs 6.50 hither to and the revised proposal is the same. This requires downward revision.

Reply of CPDCL: Keeping the petty traders in view, new slab was introduced last year for consumption less than 100 units with the same tariff; there has been no increase in tariff for this category of consumers from FY 2002-03, though the costs to serve have substantially increased.

Commission's View: There is a slab of 0-50 units under LT-II commercial category which was introduced last year to take care of such petty traders.

Request for further slabs in LT-II(commercial)

124. Repalle Pattanabhivrudhi sangham's requested that like LT-I, LT-II too should have more slabs and the following structure was suggested:-

| | |
|------------------|-------------------|
| 0-25 units/pm | : Rs 2/- per unit |
| 25-50 units/pm | : Rs 3/- per unit |
| 51-100 units/pm | :Rs 6/- per unit |
| 101-200 units/pm | :Rs 8/-per unit |
| 201-300 units/pm | :Rs 10/- per unit |

Reply of Licensees: The proposal would be examined.

Commission's views: Such minute bifurcation and steeply accelerating tariffs are neither possible nor desirable. It is not possible to adopt the proposed structure.

Classify industries with less than 5 HP as cottage industries

125. Sri Kommidi Narasimha Reddy suggested that Industries that use power less than 5 HP may be treated as Cottage Industries

Replies of Licensees: The LT category IV(A) is applicable only to Dhobighats and small cottage industries specifically power looms, carpentry, black smithy, kanchari, Gold smithy, Shilpi and pottery having connected load not exceeding 5 HP. The categorization of consumers is made based on the nature of industry and their utilization. Hence the industries with less than 5 HP may not be categorized as a cottage industry.

Commission's views: Reply of DISCOMs is satisfactory.

HT-VI:Townships and Colonies: Sub categories

126. **Sri Kommidi Narasimha Reddy Ex-MLA** suggested the consumers who fall under HT-VI:Townships and Colonies may be classified into A, B and C categories for possible tariff differentiation.

Replies of Licensees: As there is no rationality in further sub-categorization of HT -VI, the proposal is disagreed.

Commission's views: Reply of DISCOMs is satisfactory.

Concessional tariffs for municipal corporations

127. **The Municipal commissioner, Kadapa and Municipal Commissioners of Proddutur, Badvel, Rajampeta, Pulivendula, Jammalamadugu** gave a written representation making four requests. The Municipal Commissioner of Kadapa also made an oral representation. The requests made were :-

- (i)Make tariffs for LT- street lighting and water supply on par with panchayats
- (ii)Waiver of charges on shifting of poles—same poles are used by DISCOMs to supply to consumers -so why cant the DISCOMS waive the shifting charges ?
- (iii)Waiver of surcharge and interest on delayed payments—PD a/c-treasury LOC-delays
- (iv)Levying fee on transformers-evolve a policy on regulation of transformers

Reply of Licensees: These tariffs are already subsidised.

Commission's Views: The tariffs are lower for panchayats because they have limited resources and smaller jurisdictions unlike the municipal corporations. The gradation in tariffs is therefore justified.

The request for waiver of shifting charges is not acceptable.

Request for waiver of interest on outstanding dues cannot be accepted.

Waiver of surcharge and interest on delayed payments

128. The **Municipal Commissioner, Kadapa** requested for not levying both the surcharge on delayed payment and interest rate together on payables to Licensees by Municipalities.

Replies of Licensees: No specific response by Licensees.

Commission's View: The Commission, since 2008-09 tariff order, discontinued the simultaneous levy of both delayed payment surcharge & interest on payables. The Commission directs:

The Licensees shall not simultaneously levy both delayed payment surcharge & interest on payables.

Street Lighting: APIIC Industrial Areas

129. An issue of categorisation and concessional tariff was raised by the APIIC for the street lights in their area. They stated that in the industrial parks/areas managed by APIIC, the rates are charges as commercial in LT-II category. This should be changed and they should be taken under LT-VI which cover street lighting of local bodies. The areas under control of APIIC were earlier under municipalities and for better management, were stated to have been handed over to APIIC. They serve the purpose of street lighting on the roads inside the industrial areas and parks and are common facilities for all. It is their

argument that transfer of ownership and management should not come in the way to classify under LT-VI.

Replies of Licensees: The APIIC is not a local body to be classified under LT-VI.

Commission's View: This is a recurring issue every year before the Commission. To resolve the issue permanently, the Commission directs that;

The Licensees shall examine the usage pattern, the extent of public roads and the financial impact and submit a report by 31/10/2011.

Barber Shops under LT-IV: Cottage Industries

130. The **A.P.Nayee Brahmana Seva Sangham** had filed representations and also appeared at public hearings to make out a case that as a profession, they should be given concessional treatment and should be classified under LT category-IV.

It was stated that about 45 Lakhs of the barbers in AP state depend on this caste based profession and many are finding it difficult to survive. The Government of Andhra Pradesh is extending the Concessional power tariff facility to some of the caste based professions like gold smithy, black smithy, washer men (dhobis) etc and a Similar facility may also be extended to the poor barbers by categorising their shops under category-IV, with a nominal tariff for consumption upto 150 units per month.

Replies of Licensees: It is not possible to categorise Barber shops under LT Category-IV: Cottage Industries. The matter is under the purview of APERC.

Commission's views: The categorisation on such caste based professions, which can operate anywhere / open shop anywhere, is not advisable because verification and implementation of such categorisation is not possible.

Request for Special Tariff for Sisal Products

131. Sri V Vasudeva Rao of Forum for Integrated Development & Solikiri Sisal Growers' Society, Srikakulam, Peddadimili stated that the sisal growing societies are mostly formed with small farmers who are encouraged to grow sisal to augment their income. The fibre is extracted through a machine that is operated by societies. It was requested that the sisal growers' societies may be given electrical connections to their 5 HP, 3-Ø motor to run the sisal fibre extraction machines under LT-V (A) Agriculture (No charges) or at least under similar category of LT-III (A) (IV) for sugarcane crushing (50 paisa/unit).

Replies of Licensees: The matter is under the purview of the Commission (NPDCL,EPDCL,SPDCL); the request may be considered and these units can be considered under cat-IV-cottage industries. It also stated that the matter is under the purview of the Commission (CPDCL).

Commission's View: Commission has decided to charge co-operative sisal units under LT-IV Cottage Industries.

New occupations under Category LT-IV: Cottage industries

132. Many requests have been received to classify agro related/farm related activities like chaff cutting, vermi-culture, seri-culture, apiculture(honey bee keeping and extraction of honey) mushroom

growing, etc separately and to fix a concessional tariff were being received over the years since they all are employment generating as well as income generating activities for people in rural areas. These activities are also linked to farms and are generally carried as ancillary activity by farmers/their families. A directive was also given by the Commission in the tariff order for 2010-11 at directive number 7A at page 154. The same was discussed in para 317 on page 139. The request was made by Bharatiya Kisan sangh and a number of individual consumers in the current proceedings as well.

Replies of Licensees: Examined and found that there are no such incentives under income tax act to such agriculture allied activities and accordingly proposed to continue with the existing categorisation and make no change.

Commission's View: The Commission has decided that the following occupations with motors upto 5 HP shall be charged on par with LT-IV Cottage Industries. The Commission hereby creates a sub category under LT-IV Cottage Industries for the following activities.

- a. Vermiculture
- b. Sericulture
- c. Mushroom growing
- d. Rabbit farming
- e. Sheep rearing
- f. Apiculture (honey making)
- g. Chaff-cutting
- h. Dairy farming

Minimum load to 250W Under LT cat-II: Non Domestic/Commercial

133. **Sri K Hari Kishore Kumar Reddy** suggested that for the consumers in cat-II (1-ph), minimum load shall be specified as 250W and security

deposit shall be limited to Rs 200/-. A number of other people/consumers have also made this request. The background to this request is stated to be as under:-

At present, there is no minimum load prescription for LT-II category. The load can theoretically be from 0 to 3000W. However, whenever a small shop / operator applies for a connection, it is stated that the Licensees are insisting on minimum 1000W/1KW as connected load and accordingly charges are being levied. This is causing inconvenience and so to help such small operators, this specification was requested.

Replies of Licensees: The advice is noted and the matter is under the purview of the Commission.

Commission's views: The Commission hereby decides that the minimum load for extending connection for LT-II Non Domestic/Commercial shall be 250 Watts and development charges shall be pro-rated.

Levy of Voltage surcharge—mechanism of computation

134. **M/s Pioneer spinning and weaving mills ltd** stated that there is a voltage surcharge levy based on “contracted demand with licensee and other sources”. The Voltage surcharge is levied considering the aggregate of the contracted demand with the licensee and the average demand in respect of supply of other sources. They state that this does not consider whether the supply from such other source is in lieu of / substitution of some part of the energy contracted with licensee.

They illustrated this issue with an example.

A consumer has 1400 kVA as CMD with a DISCOM and 300 kVA as average demand contracted with say, a mini hydel plant. As hydel plants are seasonal, there are long periods when there is no supply from them and the entire recorded demand of say, 1300 kVA is met by DISCOM. However when there is hydel generation and 300 kVA is supplied by the hydel plant, the recorded demand is still 1300 kVA but 300 kVA came from hydel and 1000 kVA came from DISCOM. The recorded demand never exceeded 1500 kVA.

Yet in the present dispensation, the aggregate demand would be taken as 1400 kVA (CMD) + 300 kVA = 1700 kVA and it is construed that the consumer is required to take supply at higher voltage or has to pay Voltage surcharge. The actual power drawn is well below the 1500 kVA limit of Voltage supply.

They also stated that it is not in anyone's interest to supply at higher voltage when the actual power is only 1300 kVA. This was said to be causing lot of problems.

They requested that the existing provisions be suitably modified so that a recorded maximum demand alone is the basis for levy of voltage surcharge.

Replies of Licensees: Based on the contracted demands the required capacities of lines and power transformers are determined and installed accordingly. Surcharges will naturally be levied on contracted demands with licensee and all other sources but not on utilization or recorded demand.

Commission's views: Reply of the DISCOMs is not meeting the situation described. The contracted maximum demand is never being exceeded here and so the line capacities and transformer capacities created with the contracted demand in mind are not being put under strain. As long as the consumer does not cross the maximum contracted demand, which the system has factored in already, the explanation of DISCOM does not hold. The provision is therefore modified as:

In case of consumers who are having supply arrangements from one or more than one source, the RMD or CMD only with the Licensee, whichever is higher shall be the basis for levying voltage surcharge.

Requests of railways for tariffs lower than Rs.4/- per unit

135. Railways submitted their requests (a) to fix traction tariff at less than Rs.4.00 per unit as against proposed tariff of Rs.4.70 (including Time of Season Tariff) per unit (b) to exempt Railways from payment of additional energy charges for exceeding CMD (Clause 6 of General Conditions of Tariff Order).

The request was made through presentations at the time of public hearings at Hyderabad and Srikakulam and also through written representations filed before the Commission.

The arguments were that it is a public utility; Railways is also a power intensive like Ferro alloys, the tariff levied is higher than the CoS by about 30%, the railways maintain a good power factor (above 0.95) and that the typical transmission losses for traction substations

are only 0.1% and the distribution losses are zero. They also argued for revision of charges when RMD (recorded maximum demand) overshoots the CMD(contracting maximum demand).

Replies of Licensees: The cost of service for any consumer category includes all the costs incurred by the DISCOMs in serving a particular category of consumers. The cost of service (CoS) for any consumer category includes cost of Transmission, cost of Distribution and other metering/billing costs, apart from the power purchase costs. Hence a %difference between Cost of Service and Power Purchase Costs may not be an appropriate indicator. Increase in transmission and distribution costs may be attributed to the higher level of investments done by the Transco and DISCOMs and increased financing costs incurred by the STU and DISCOMs. The increase in Cost of service over power purchase cost is mainly due to increase in transmission cost from 133.66 Cr to 171.06 Cr and distribution cost from 603.67 Cr to 702.38 Cr. The DISCOMs have followed the similar procedure in calculating the CoS that was followed in the previous years (2010-11, 2009-10 etc.). The tariff for Railways cannot be compared with tariff for Ferro alloy industry, as Ferro alloy industry is a production industry, apart from being a provider of constant base load.

As regards charges for exceeding CMD, based on the contracted demands of the various consumers, the capacities of lines and power transformers etc, are determined and installed and accordingly, any shoot ups by the consumer will result in burdening the system.

Further, the present methodology of power procurement is based on ABT mechanism which involves forecasting of the requirements of DISCOMs. Hence to inculcate a discipline in the consumers, for restricting their utilization up to their contracted demands only, these charges are introduced, otherwise, it leads to ineffective management of grid.

Commission's views: As stated earlier, after careful consideration the proposals for time of season tariff have not been accepted by the Commission. Secondly, the charges for exceeding the CMD have been specifically determined at a lower rate for railways keeping their specific issues in view in the tariff order 2010-11 and hence need no revision. Further, wherever exceeding of contract demand is on account of failure of grid failure, charges are not being levied as per a separate order/agreement.

Objections/Suggestions by A.P.Ferro alloy producers association

136. The Ferro alloys association requested the Commission to consider 85% class load factor while fixing the tariff, examine the tariff anomaly in 2005-06 Tariff Order and reduce the tariff for Ferro Alloy units from the current level of Rs.2.65/KWH to a level appropriate as per the tariff principles adopted by the Commission for earlier tariff orders and as per the provisions of the Electricity Act, 2003 (Sec.61G).

Ferro Alloy units requested that they may be permitted to pay the cross subsidy component of the tariff only (or alternatively 50% of

tariff fixed by the Commission) when the units fail to consume energy equivalent to 85% load factor.

During power cut period, 85% annual load factor should be calculated not against the contracted maximum demand but against the actual power supply made. With imposition of 30% power cut, the effective power supply works out to 66.33% of CMD and 85% annual load factor billing should be done against 66.33% power supply made and not on full CMD demand. Thus the DISCOMS should not consider the powercut period for deemed energy consumption calculation. This is so because, the DISCOM will not incur any loss on account of their less consumption since the DISCOM is selling this power to others. They stated that the levy of this charge has a meaning when there is power surplus and the DISCOMS lose out on account of less consumption by the ferro alloy industry.

A request was also made to examine the feasibility of one month notice period to derate contract demand to enable the industry to plan and minimise avoidable loss.

Replies of Licensees: Under the purview of the Commission (CPDCL, NPDCL, SPDCL); Licensee will not agree for any course correction in the tariff issued for FY2005-06; these charges are being collected as per the orders of the Commission only (EPDCL).

Commission's view: The issue of tariff was considered by the Commission in detail earlier too and this needs no further revision.

The request for considering power cut periods in reckoning deemed energy charge is reasonable. The Commission accordingly, directs that;

The Licensees shall exclude the period of R&C measures (power cuts) in calculating the deemed energy consumption.

The issue of notice period for derating demand requires examination of GTCS rules and would be separately taken up.

Rebate for pre payment / advance payment of bills

137. (A) Sri CV Mohan, Repalle Pattanabhivruddi samstha stated that (a) a discount of 1% may be given if the bill is paid within 7 days of issue date.

(B) Shri Hume Shastry of Vishakapatnam also suggested for a rebate for those who pay the bills promptly. He suggested that on advance payment of bill amount, 9% interest as paid by M/s BSNL may be considered. He also cited the case of Maharashtra, wherein, the MSEB gives 1% rebate if bill is paid within due date.

Reply of SPDCL for A: Noted.

Commission's views: A rebate for payment within 7 days of issue of bill is not considered.

Commission has decided that a rebate @ 0.5% per month on amounts paid in advance of respective billing dates against future bills.

The minimum advance payment should be Rs.1000/- and the amount should be paid at least one month in advance.

The rebate availed by the consumer shall be adjusted in subsequent months bills.

Prepaid meters for Govt departments and municipal corporations

138. **Repalle Pattanbhivrudhhi Sangham** suggested to introduce prepaid meters to municipalities, panchayats, government departments as they are defaulters and have large arrears against them.

Reply of Licensees: No specific response has been provided by Licensees.

Commission's view:

The dues from Government departments are quite high and slower recovery would affect the cash flow and day to day management of affairs for the DISCOMS. This suggestion may be examined and discussed by DISCOMS with such consumers. A report on this subject shall be submitted by 31/07/2011.

Request for reduction of Monthly consumption deposit charges

139. **Kurnool district chamber of commerce & industry** objected that three months consumption charges were fixed some decades back by the department of power, Govt. of AP; APSEB retained it and CPDCL is continuing it. They requested that this should be reduced.

Reply of Licensees: At present as per Regulation. No. 6 of 2004, 2 Months Consumption deposit is being collected.

Commission's view:Reply of Licensees is satisfactory.

Requests of consumers of power looms

140. **Sri Mara Srinivas of Swadesh Jagaran Manch** submitted during the public hearing at Hyderabad that that (a) For Power looms, during the crisis period in the year 2001, 50% energy consumption charges subsidy was announced and during the regime of the Ex-CM another

25% was announced. Presently, even the original 50% is not being released, leading to the collapse of this power loom industry in Siricilla; (b) FSA is further burdening power looms, hence, they may be exempted from FSA (c) The Power loom allied units like dyeing, sizing et., shall be billed under cat-IV, instead of cat-III.

Reply of NPDCL:The subsidy to weavers is dealt by Govt of AP and the exemption from FSA for weavers can not be considered by DISCOMs. Classification of categories is not in DSICOM'S purview.

Commission's Views: Power loom allied units, if they are already treated as cottage industries and are covered by the Cottage industry lists of Central or State Govt, then they would be eligible for classification under Cat-IV subject to the conditions mentioned therein. However, if they are classified as industries on account of motor capacities, load requirement or any other criterion, then it can not be changed. On other aspects, reply of DISCOM is satisfactory.

Objections/Suggestions by FAPCCI

141. FAPCCI submitted that availing supply at EHT voltages is consuming lot of time and has practically become difficult and hence requested to amend the Clause 1 (ii) of General Conditions of HT supply so that 33 kV supply can be taken by consumers with contracted demand upto 15000 instead of the existing 10000. Those with contracted demand above 15000, may be required to take 132/22 kV supply. This is subject to adequate current carrying capacity and voltage regulation.

Replies of Licensees: In the purview of Hon'ble APERC.

Commission's view: This would be considered separately. Specific views of M/s APTRANSCO and the DISCOMS have also been called for and the matter would be separately dealt with.

Levy of ToD charges on services without ToD meters.

142. **FAPCCI** suggested exempting the services not metered for ToD from the ToD charges, as it would not be correct to bill unless proper metering is provided.

Replies of Licensees: In cases where the consumers are not metered properly, the issue will be looked into and metering will be provided accordingly (All DISCOMs).

Commission's view: DISCOMs should ensure that ToD meters are invariably installed for levy of ToD charges.

Billing dates and issues therein

143. **FAPCCI** requested that the Commission should insist on the Licensees to observe the provisions laid down in GTCS and requested for a separate provision for interference by APERC. They submitted that Licensees have been failing to observe the provisions laid down in GTCS, causing inconvenience to the consumers and many times are not taking any corrective measures; for example, HT bills are dated 26th of every month in some DISCOMs and 23rd of the month in the remaining DISCOMs; it has been a general practice to adopt furnishing of that date, irrespective of the fact whether the bills are available for issue; even if 26th is a holiday, the date of bill is noted as 26th , but, the bills are available by 27th and in some cases 28th or 29th

only; If there are any corrections, the revised bill will be available for issue only after 29th; but, these revised bills are also dated 26th ;, it is suggested that the HT bills and LT Industrial bills are served through courier and the bills are dated on the actual date they are ready for issue; as an alternative, the bills may be kept in internet as soon as they are ready and the date of bill should be the date on which the bills are put on internet.

Replies of Licensees: Bills are served with date of issue and not concerned with holidays, postal delays etc. for the 15days payment period which includes date of issue; however, the issue of amending GTCS is within the purview of Hon'ble APERC.

Commission's views: Commission concurs with the view of DISCOMS as regards the date of bill. However the Commission directs licensee;

to study if it is feasible to place the bills on internet for customers to verify and know. This should be encouraged as the DISCOMS should move towards facilitating on line payment. A feasibility report on placing of bills on the internet together with facility to pay on line for atleast HT and LT_III consumers may be sent to Commission by 30/06/2011 so that the scheme can be implemented from 1/8/2011.

Objections/Suggestions by Sri Kommidi Narasimha Reddy

144. Licensee is collecting Rs.20/- from the consumer towards customer service charges without providing any additional and reliable services; it is requested to (a) To install the DTR (with standard LT Fuse Box, HG Fuse set and AB Switch) within a stipulated time (b) to lay the earth line (fourth wire) for all LT lines (c) LT Poles should be erected within the stipulated span /distance.

Replies of Licensees: The Customer charge is intended to recover the distribution and billing related costs, which include having an electrical distribution system in place, servicing & reading the meter, issuing the bills and maintaining customer records; DISCOMs are taking suitable and necessary action in this regard and are maintaining the supply as per Standards of Performance.

Commission's view: Reply of the DISCOMs is satisfactory. However, DISCOMS should keep in view that constant efforts are needed to improve customer service.

Tariff to be paid by RESCOs for excess drawal

145. In the Tariff Order for FY 2010-11, a directive was issued to the Licensees to file approach paper on pricing of additional supplies to RESCOs by December 31st 2010.

Replies of Licensees: The DISCOMs have been insisting for fixation of tariff for all the excess energy drawn by RESCOs over and above the approved quantity at a rate which shall either be at the cost of power purchase or based on the cost to serve rate.

Commission's View: The Commission feels it to be more appropriate that the payment for excess power draws by the RESCOs beyond Tariff order quantities shall be priced at a rate which is derived from RESCO additional sales weighted average revenue realisation. Hence, the Commission hereby approves to adopt the following methodology to arrive at the price to be adopted for such excess draws by the RESCO.

- a) If the excess draws by the RESCO is on account of their additional sale to agricultural consumers, then for “Any such additional purchase by the RESCO to meet its additional sales to Agricultural demand shall be given the same treatment by the DISCOMs as it accounts for its additional sales to that category.”
- b) If the excess draws by the RESCOs is attributable to their sales to non-agricultural consumers, then “the RESCOs shall have to pay to the respective DISCOM for such additional units (i.e., kWh) drawn at a rate equivalent to 75% of their weighted average revenue realisation relevant to those additional non-agricultural sales relevant to that financial year in which such additional purchases were made for catering to the non-agricultural category consumers. Besides, the same methodology ought to be adopted for all those additional purchases made for catering to Non-Agricultural sales by the RESCO concerned.”

Expanded list of occupations LT-IV: Cottage Industry

146. The directive 7B of 2010-11 tariff order referred supra reads as under:-

“ The Licensees are to study the list compiled by the INDUSTRY DEPARTMENT OF THE Union Govt and the State govt as stated by Shri Rachamalla Punnamacharyulu, President of Akhila Bharatiya Viswakarma Parishat , and to prepare a list of activities carried out in their jurisdictional area, which are to be treated as cottage industry.”

The licensees have examined and recommended the following occupations in their licensee area for inclusion under LT-IVA category

as per Annexure II of the ARR filings while discussing compliance to directives.

These occupations have been included under LT-IVA category for all the licensees since occupations are similarly placed all over the State and need support equally.

Table 43: List of Occupations for LT-IV: Cottage Industries

| OCCUPATION | Load Limit | RECOMMENDING LICENSEE |
|-------------------------------|------------|--|
| Mochy | 5HP | APCPDCL |
| Phenoyl production units | 5HP | APEPDCL |
| Agarbathi production units | 5HP | APEPDCL |
| Wax Candle making units | 5HP | APEPDCL |
| Papads Manufacturing units | 5HP | APEPDCL |
| Leathers(Chappals) making | 5HP | APEPDCL |
| Soap Industry | 5HP | APEPDCL |
| Plastic of Paris units | 5HP | APEPDCL |
| Laque toy making units | 5HP | APEPDCL |
| Pop Toys | 5HP | APEPDCL |
| Wood carving/toy making units | 5HP | APEPDCL |
| Pickels Manufacturing | 5HP | APEPDCL |
| Mango jelly units | 5HP | APEPDCL |
| Adda leaf plate industry | 5HP | Though not recommended by EPDCL, this is also considered and included. |

Classification of News paper printing & printing presses

147. The issue of classification of News paper printing & printing presses has been brought to the notice of the Commission by CPDCL and it stated that News paper printing units shall be classified under HT-I Industry and all other printing activities shall come under HT-II Others. Similar treatment shall be extended to LT consumers also i.e., News paper printing in LT-III Industrial & other printing activities in LT - II Non Domestic/Commercial.

Commission's view: The Commission accepted the proposal of CPDCL and included the News paper printing units in HT-I Industry and LT-III Industrial as the case may be. All other printing activities shall come under HT-II Others or LT-II Non Domestic/Commercial as the case may be.

CHAPTER-VI OTHER GENERAL OBJECTIONS/SUGGESTIONS

148. The Commission, in this chapter, has dealt all other objections/suggestions received and raised during the public hearings. These objections/suggestions along with Licensees' responses and Commission' views wherever necessary are given hereunder.

Long term PPAs with IPPs In Expansion Projects

149. **Dr. M. Thimma Reddy and Shri G.Diwakar** requested the Commission to give directions to DISCOMs to enter into long term PPAs with the new expansion projects of IPPs. They pointed that the existing IPPs in the state are planning expansion units adjacent to the existing units. These are being set up as merchant plants. Tariff Policy provides some scope to deal with such situations. According to Section 5.1 of this Policy, "All future requirements of power should be procured competitively by distribution licensees except in cases of expansion of existing projects or where there is a State controlled /owned company as an identified developer and where regulators will need to resort to tariff determination based on norms provided that expansion of generation capacity by private developers for this purpose would be restricted to one time addition of not more than 50% of the existing capacity". For the existing plants all the necessary facilities like land, fuel linkage and transmission connectivity were provided by the state or state owned entities. Thus, Commission may direct the DISCOMS to enter into PPA agreements with these units by invoking the above clause and as the existing capacities are about

2500MW, about 1250MW of power can thus be held back and procured by the DISCOMS.

Replies of Licensees: All the existing IPPs who are proposing to establish expansion projects were requested to offer 50% of existing PPA capacity from the expansion capacities to APDISCOMs as per the tariff policy notified by Gol. Further, DISCOMs have not recommended for fuel linkage and not provided evacuation facilities to the expansion projects to be set up by existing IPPs (All DISCOMs).

Commission's views: As the demand for power would only grow and there is a need to tie up long term sources, the DISCOMS should try and make efforts to retain this power. They are therefore directed;

to examine in terms of the existing PPAs, the National tariff policy and the provisions of the E.Act 2003, the legal feasibility of acquiring a share of power in such expansion projects and file a detailed report to the Commission by 30/04/2011 in case of each of the IPPs that are setting up expansion projects.

PPA pertaining to Hinduja Power plant

150. **Dr. M. Thimma Reddy and Shri G.Diwakar** stated that the Hinduja Power Project should not be allowed to become a merchant power plant as the State had given a number of concessions and land over 15 years ago and still the plant is yet to be built. They stated that if the Hindujas are not ready to take up this project, a new private developer should be selected through open competitive bidding.

Replies of Licensees: The PPA signed by erstwhile APSEB with M/s. HNPCL on 19.08.1998 for sale of 100% capacity of 1040 MW (2x520

MW) is no longer existing. GoAP is yet to take a final decision on the proposal of HNPCL offer of 25% of power to the AP state (All DISCOMs)

Commission's views: The matter is not in the Commission's purview as on date.

NCE Generator Sales to Outsiders

151. Dr. M. Thimma Reddy and Shri G.Diwakar raised the issue of mini hydel plant (24MW capacity at Dummugudem anicut,Khammam dist) of M/s SLS corporation entering into a PPA contract with Tata Power Corporation ltd, Mumbai with NEDCAP giving clearance to it. They wanted to know why the DISCOMS are allowing this power to be sold outside the State when they themselves are running short of renewable energy RPPO ?

Replies of Licensees : NEDCAP's role is to promote NCE development in the State. Further, the power developer is free to sell power to any distributor/trader and the DISCOM can not impose any condition to sell power to them only.

Commission's views: The DISCOMs are expected to comply with RPPO order issued by the Commission through purchases from NCE developers as indicated by the objectors. Hence, the DISCOMs should make earnest efforts to purchase the power generated by the NCE developers.

Queries regarding Case-I bidding

152. Sri BV Raghavulu and Sri M Venugopala Rao, While referring to the case-I bidding of DISCOMs they stated that in view of the installed capacity already available to the DISCOMs & to be available in the

years to come under the PPAs they have already entered into, there is no necessity to procure power under case-I bidding. They sought for the outcome of the bids called for the DISCOMs under this bidding.

Replies of Licensees: The case 1 bidding is in the process and hence the questions cannot be replied as of now (All DISCOMs).

Commission's view: As the process is under way, the Commission would not like to comment upon it at this stage.

Queries regarding the BPL project at Ramagundam

153. Shri M.Venugopala Rao and Shri B.V.Raghavulu stated that the Commission gave consent to the changes proposed in the reinstated PPA as submitted by the promoter developer M/s BPL and directed the APPCC to submit the executed power purchase agreement to the commission. They stated that it is incorrect on behalf of the Commission to have acted on the developer's letter and directed the DISCOMS to take action accordingly. They sought to know the present status of the 'executed amended PPA with BPL's Ramagundam project' and whether any public hearing would be held/recommended to the Commission by the DISCOMS on this matter.

Replies of Licensees: AP DISCOMs and BPL are in the process of execution of the amended PPA as per the directions of APERC.

Commission's views: The Commission issued the letter to initiate the process after considering a number of factors namely, (a) the Govt of Andhra Pradesh's G.O.M.S no 51 dt 20/9/2009, (b) the need for building

up generating capacity (c) the time required to get Govt clearances, environmental clearances, complete land acquisition, achieve financial closure by a fresh entrant vis a vis the company which has completed all these tasks and finally the freezing of costs and assured supply of power to the State utilities. The Commission would examine the issues involved when the DISCOMS file the executed PPA.

Resource planning and load forecasting by DISCOMS

154. **Shri Ch Venkateswarlu** stated that as per the guidelines issued while granting the license u/s 15 of the E.A Act 2003, each Licensee shall formulate resource plan in coordination with others and each Licensee shall demonstrate to the APERC that its resource planning will ensure to the maximum extent that all consumers connected to its transmission or distribution system will receive an adequate, safe and economical supply of electricity having regard to quality, continuity and reliability of service. He stated that the load forecast should be clear with assumptions being disclosed.

Replies of Licensees: The Load forecast and resource plan has been prepared and submitted as per the Hon'ble Commission's guidelines.

Commission's view: The DISCOMS are disclosing in the ARR filings, the basis of their forecast and the underlying.

Metering of DTRs to Avoid Theft

155. **Shri K.Sankar Reddy** stated that all the single phase transformers in villages should be metered and as a transformer serves 50 houses, the units sent out could be correlated to bills raised on such houses and theft and other malpractices can be easily detected.

Separation of Agricultural Services

156. **Shri K.Sankar Reddy** stated that DISCOMS should not formulate schemes like separating agricultural services with cable conductors. This did not work for even two days and cables are hanging on poles. Photographs of such cables were sent.

HVDS Schemes

157. **Shri K.Sankar Reddy** stated that with implementation of HVDS supply to agriculture, there is a large scale breakdown of transformers. This must be checked with joint effort of police.

Reply of SPDCL:The suggestions are noted. As regards the suggestion regarding cables, the suggestion is not clear.

Commission's views:The Commission agrees with the suggestions made and as regards the cables hanging from poles

SPDCL is directed to contact the objector, Sri K Shankar Reddy, Chittoor to get the details , examine the matter and send a report by 31/06/2011.

Power Supply to Agricultural services and other related issues

158. The objections received from a number of farmer bodies and the objections raised during various public meetings covered issues like supply hours, adequacy of power supply, 7 hour continuous supply instead of supply in 2/3 spells, the supply of power during night time which is causing lot of problems, maintenance issues and transformer problems, the burning of transformers and replacement of transformers, the availability of maintenance people and the specific problems of services covered by lift irrigation schemes in HT-IVB

category namely, the number of hours and the extent to which it is “free”.

159. Some of the objectors like Sri Katuri Harikishore Kumar Reddy and Sri Yellapu Suryanarayana, Sri Saarampally Malla Reddy, many of the objectors/consumers like Sri Kakarla Vanadri Naidu, Swami Jaganmayananda and other similar organizations/persons have submitted their objections/ suggestions /requests. Summary of these submissions along with the responses of the DISCOMs is given in Table 44.

Table 44: Summary submission with the responses of the DISCOMs

| SN | Objection/suggestion | Reply of DISCOMs |
|----|---|--|
| 1 | In the event of Electrical accidents, humans shall be paid Rs 5L & cattle shall be paid Rs 25000/- as compensations | Compensations are being paid as per the orders of the Government of Andhra Pradesh |
| 2 | Insurance premiums for the compensations to be paid, in the event of accidents, shall be paid by the DISCOMs only | Advice is noted |
| 3 | Modifications shall be carried out in Standards of Performance | Under the purview of Commission |
| 4 | Development charges shall be indicated clearly in the Tariff Order as it is also income and as even application fees are being listed in the tariff orders. | Under the purview of Commission |
| 5 | Power supply should be stable, reliable and certain for 7 hours. Poor quality of power is leading to burning up of motors and transformers | Shifts have been allocated in each division as per usage and fluctuations |
| 6 | Though some of the farmers purchases capacitors, DISCOMs are denying to fix them, stating that there is no sufficient staff | DISCOMs are fixing the capacitors wherever the farmers are coming forward |
| 7 | Paddy as a second crop shall be barred from ‘free power’ | It is a policy of the GoAP |
| 8 | It was announced by AP co ordination committee that by improving quality of pump sets, power can be saved up to 20%.The Tamil Nadu Govt is incurring expenditure of about Rs6000Cr to change motor sets. is | Noted. |

| SN | Objection/suggestion | Reply of DISCOMS |
|----|--|--|
| | anything being done in AP also? | |
| 9 | Provide free supply to the lighting point at bore wells and to the cattle shed as cattle formation is also a part of Agriculture activity; earth wire which is removed for bore wells is to be re-laid | Free power supply is provided to Agriculture as per GoAP policy |
| 10 | Losses can be reduced by replacement of aged conductors, repair of DTR and replacement of bent poles. Burden on consumer can be minimized by reduction of losses | DISCOMs are replacing the aged conductors and are taking all the necessary steps for reduction of losses |
| 11 | when load is available on the DTRs, Agricultural Connections may be released by laying the required poles, duly availing Rs 30000/- subsidy of the Central Govt | DISCOMs are not getting any subsidies; Agl services are being released as per the existing rules |
| 12 | AB switches shall be provided for the entire mother DTRs in the HVDS | AB Switches are being provided |
| 13 | Replacement of stolen DTRs is being done with abnormal delays for want of crime numbers | Instructions are already issued to provide new DTR, without insisting for the Crime Number |
| 14 | power-cut shall be imposed to towns and villages without any discrimination | villages are being given 3-ph power supply for 7 Hrs/day and 1-ph power supply for the remaining hours (All DISCOMs) When demand exceeds supply, power cuts are imposed. |
| 15 | Regularize the unauthorized connections and release new connections | As per Govt policy. |
| 16 | Issue ARR also in telugu. | They are available. |

Commission's views: (a) The Commission would examine the issue of insurance premium as and when the DISCOMS complete the study and come up with concrete proposals. The Final compliance report on this matter as per directive Number 14 at page 156 read with page 144 of tariff order 2010, may be submitted positively by 30/09/2011.

(b) Wherever there are requests for installation of capacitors, it should be immediately attended to.

(c)The development charges shall be printed in a booklet along with other charges as applicable and shall be given to consumers as a separate booklet/pamphlet. The details shall also be displayed at all section offices and consumer service centres, along with Standards of Performance.

(d) The DISCOMs should devise appropriate forms clearly indicating the exact requirements and charges leviable in different situations.

(e)The Commission directs the DISCOMS to file an approach paper on revision of standards of performance keeping in view the changed circumstances since the standards were first laid down. Such an approach paper may be filed by 31/10/2011.

(f)The Commission desires that all documents that are placed in public domain, are to be available in Telugu to enable large number of people to read and participate. The problem is however with availability of translators who can do the job quickly and without errors. The Commission would endeavour to bring the orders in Telugu as soon as possible.

Objections/Suggestions by Ch.Venugopala Rao

Table 45: Objections/Suggestions by Ch. Venugopala Rao

| SNo | Objection/Suggestion | DISCOMs' reply |
|-----|--|-------------------------------------|
| 1 | Rice should be banned during Rabi season. Horticultural plants/crops should be given reliable power. | Under the purview of the Government |
| 2 | Agricultural meters in the lands acquired should be again allotted to the same village/villages | |
| 3 | Farmers, who lost lands under tower lines /transmission towers, should be adequately compensated. | |
| 4 | Employment to locals in thermal plants built in that area. | |
| 5 | SPDCL created a separate category of HT-IVC | It is not a separate |

| SNo | Objection/Suggestion | DISCOMs' reply |
|-----|---|--|
| | and is levying charges from these consumers | category. For data base convenience HT IV C is created so as to distinguish the consumers availing the agricultural supply for more than 7 Hrs |
| 6 | Ombudsman orders to be in Telugu | Not in DISCOM'S Purview |

Commission's views: The Commission agrees with the views of DISCOMs that crop pattern can not be decided by the DISCOM/Commission. It also directs the DISCOMS not to raise bills under HT-IVC category when such a category is non-existent. However to overcome the problem of billing consumers under HT-IVB category for supply beyond 7 hrs, as and when supply is made beyond 7 hrs (within available power) the DISCOMs may charge for that portion at the same rates as applicable to HT-IVA.

Objections/Suggestions by members of Bharatiya Kisan Sangh

Table 46: Objections/Suggestions by Members of BKS

| SNo | Objections/Suggestions by | Objections/Suggestions |
|-----|---|--|
| 1 | NSR Anjaneyulu,dasarlapati left irrigation society | 1)24 hr supply in rural areas on par with cities. 2)LT-II, specify minimum load as 250W 3)HT-IVB category-supply 16 hrs free power 4)Death due to electrical accident-compensate Rs.500000 to human and Rs.25000 to cattle. |
| 2 | D.ChenchuPunnaiah,Sri Venkatewara Lift irrigation society | |
| 3 | G.Rambabu,Prakasam dist | |
| 4 | A.Satish kumar,Prakasam dist | |
| 5 | P.Penchula Reddy,Nellore | |
| 6 | Katur Harikishor reddy,Nellore dist | |
| 7 | Y.Udaybhaskar,Bhagyalakshmi lift irrigation society | |
| 8 | J.Choudhary babu | |
| 9 | D.Venkateswara Rao | |
| 10 | J.Prahlada Rao,L N Swamy lift irrigation society | |
| 11 | P.Prasad.Ravi lift irrigation society | |
| 12 | Y.Kotaiah,Sri mohan lift irrigation society | |
| 13 | | |
| 14 | D.Punnaiah,Satyanarayana LI society | |
| 15 | D,lakshmaiah,ramanajaneya LI society | |
| 16 | Y.srinivasa Rao,Vijayalakshmi LI society | |
| 17 | Y.Papa Rao | |
| 18 | P Koteswara Rao | |

Replies of SPDCL: Villages are being given 3-ph power supply for 7 Hrs/day and 1-ph power supply for the remaining hours (All DISCOMs) when demand exceeds supply, power cuts are imposed. Other issues are not in DISCOM's purview

Commission's views:

(a) Minimum load for LT-II category is specified in this order as requested.

(b) Compensation is being paid as per existing norms. Proposals for suitable upward revision should be examined and submitted before the Commission by 30-09-2011. Appropriate methodology for identification of genuine cases should also be included in the proposals.

(c) The issues relating to HT-IVB LI (Lift irrigation schemes) has been dealt with at para 69.

(d) Supply in rural areas has been dealt with separately in this order.

Billing of Services shall not be clubbed

160. Sri Y Santhosh, Sri K Sai Reddy, Sri N.Satyanarayana Reddy, N.Chandrasekhar Reddy, Obul Reddy, and O.Raghava Reddy submitted that the domestic service charges and agricultural service consumption charges shall not be clubbed and issued in one bill; since cattle shed is also a part of agriculture, one bulb for lighting purpose may be added in 'free power'

Replies of NPDCL: Collecting dues from consumers would be easy if both the charges are clubbed, however, this practice is not in vogue now; bulb for cattle shed cannot be treated under agriculture.

Commission's view: DISCOM's reply is satisfactory.

Table 47 Issues Raised by Objectors from Chittoor

| S.No | OBJECTOR | SUGGESTIONS | REPLY OF SPDCL |
|------|------------------------|---|--|
| 1 | P.Arjun Reddy,Chittoor | (a)Request for supply to agriculture during day time only (b)Conducting next public hearing at Chittoor (c)Supply for 9 hrs to be given to agriculture (d)As cities and villages are charged with same tariff, power supply should be there without any discrimination | Supply is made as per usage And fluctuations in demand and supply positions. Rest of the issues are not in DISCOM's purview |
| 2 | N.Sankar Naidu | | |
| 3 | J.Surendra reddy | | |
| 4 | B.Nagaraja | | |
| 5 | B.Yerrappa | | |
| 6 | V.S.Naidu. | | |
| 7 | M.Narasimhulu | | |
| 8 | N.BalaKrishna Reddy | | |

Commission's views: Supply hours (7 or 9) is as per Govt policy. Supply timings are based on a number of operational factors as explained by the DISCOM. Chittoor would be considered as venue for conducting the public meeting in future.

HT-IVB-Lift Irrigation schemes

161. The main problem of HT-IVB category was the hours of supply. It was contended that the DISCOMS are giving power for only 7 hours which is not enough to irrigate the ayacut under the Lift Irrigation scheme and so power should be given for 16 hours.

The next issue then is whether the power is to be supplied for 16 hrs for free as demanded by some or to give free supply for 7 hours and charge it thereafter for the balance 9 hours.

M/s NPDCL and SPDCL have stated that power is free for 7 hours as per GoAP policy and it is to be charged thereafter for the balance 9 hours. M/s EPDCL stated that the matter of giving free power for 16 hours is not in their purview. M/s CPDCL suggested to merge both HT-IVA and HT-IVB categories.

Commission's views: As already discussed in this Tariff Order , the Commission's view is that for supply beyond 7 hrs, as and when supply is made beyond 7 hrs (within available power) the DISCOMs may charge for that portion at the same rates as applicable to HT-IVA.

Power Supply to Rural Areas

162. **Sri BV Raghavulu and Sri M Venugopala Rao** sought for information on the steps being taken by the DISCOMs for complete segregation of feeders in rural areas to ensure continuous supply of power to all non-agricultural consumers
163. **Sri Ch Venkateswarlu** stated that though the rural consumers also are paying same tariffs like the urban consumers, for the domestic, industrial & commercial services, they are getting power supply for 6-8 hours per day. He further stated that the Commission, in its earlier order, even directed the Licensees to explain that why not the tariff for rural consumers be made less when they are not being treated equally with the urban consumers.
164. **Sri Yellepu Suryanarayana** expressed anguish at power cuts in villages and the discrimination shown towards cities and towns which are facing less power cuts.

165. The members of **Bharatiya Kisan Sangh**, as tabulated in Para 4, also stated that there should be parity with urban areas and 24 hr power supply should be there in rural areas.
166. The **Repalle Pattanabhivrudhi Sangam** stated that there are rice mills, flour mills and other cottage/small industries in villages/rural areas 3 phase Power supply should be there for 24 Hrs. They also stated that like telecom charges, the current charges in rural areas should be low.

Replies of Licensees: Necessary measures are being taken to provide separate 11KV feeders for other than Agricultural services, duly providing 3-ph 11KV DTRs so as to give 24-Hr power supply in villages. The licensees decided to implement the pilot project in one mandal (closer to district HQs) in each circle and the pilot projects would be funded internally by the licensees.

Commission's views: This issue of power supply to rural areas has been appearing in many of the Public Hearings and even in the State Advisory Committee meetings also there was a lot of discussion on this issue. The Commission directs the Licensees;

(a) To complete all the works pertaining to the pilot projects by 31.07.2011 and submit a compliance report, along with the results observed by 15.08.2011.

(b) To seriously examine the issue of rural power supply and come up with a better solution than segregation of feeders, which, at the current pace is likely to take more than 20 years for completion. The DISCOMS should examine the feasibility of alternative mechanisms to obviate the need for separate agricultural feeders in the context of the request of the consumers not to restrict power supply to rural households to the 7 hrs time restriction of agriculture sector.

(c) The DISCOMS may examine the issues connected with power supply to rural areas and come up with, both cost & time frame wise practicable solutions by 30-10-2011.

Energy Conservation measures by the DISCOMS

167. **Sri Ch Venkateswarlu** observed that the Licensees should arrest losses in agriculture sector. He referred to the creation of a task

force and study conducted earlier and the report submitted by FFA on the 33/11KV substation at pedapulivarru and the connected feeders. He stated that the results of this study are not being used showing that the DISCOM is not very keen on energy conservation measures.

Replies of Licensees: M/s SPDCL replied that it is taking all the measures for Energy Conservation, like educating the farmers and other consumers about the energy saving methods like using CFL lamps & star rated electrical appliances etc.,

Commission's views: A copy of the study report referred by Sri Venkateswarlu may be arranged along with detailed comments for Commission's perusal by 31/5/2011.

Suggstions on use of CFL Lamps

168. **Sri A Punna Rao**, during the public hearings spoke at length about the efforts to replace normal incandescent lamps/ bulbs with CFL lamps and sought to know the progress made by the DISCOMs on the replacement of the incandescent with CFL lamps.
169. **Shri Hume Shastry** stated that the usage of CFL lamps -(4F T5 lamps) by domestic consumers -L1 category should be encouraged as 90% of them have consumption < 200units.

Replies of Licensees: Various agencies have come forward to implement CFL programme and negotiations are under process (NPDCL); CFL scheme is not yet implemented in Kadapa & Nellore districts (SPDCL); as the investments involved in the implementation of CFL project is high and as at present the Companies are not getting

good rate for carbon credits, they are slow to come forward and sponsor such projects. It stated that if this project has to be done by the Company itself, then these investments are to be approved by Hon'ble Commission and the same have to be recovered from the consumers (CPDCL); there is a progress in the implementation of CFL Scheme in Vishakhapatnam circle and also extension of this program in other areas is being studied (EPDCL).

Commission's views: Energy conservation is to be encouraged .The DISCOMs should therefore take active steps in this matter.

Usage of Energy efficient agricultural pumps

170. **Dr M Thimma Reddy and Sri Gade Diwakar** observed that the Bureau of Energy Efficiency made a presentation to the AP Power Coordination Committee on using energy efficient agricultural pumps which helps to reduce power consumption by 20%. This would lead to saving of nearly 3600 MU of power in the state. They also stated that a pilot project to examine this was proposed and wanted to know the progress on the pilot project.

Replies of Licensees: The DISCOMs are currently evaluating the implementation of a pilot project for the same and decision will be taken by April, 2011.

Commission's views: The Commission directs that;

The details of the study conducted on usage of energy efficient agricultural pump sets, copies of the report of Bureau of Energy Efficiency and recommendations and the steps proposed to be taken, should be submitted to the Commission by the DISCOMS by 31/05/2011 for examination of the same.

Energy from RE sources

171. **Shri Chiranjeevi** stated that the cost of renewable energy purchased by DISCOMS appear to be on higher side and wanted the DISCOMs to

furnish the information on cost of renewable energy for the last three years as per his format.

172. **Shri BN Prabhakar** , requested the DISCOMS to present the approach paper and status report on the directive given by the Commission regarding encouragement and incentives to usage of Solar water heaters . He also requested the Commission to encourage small developers for installing 1-2 MW capacity plants to tap renewable energy sources available and to allow them to get connected to distribution network. He also requested that the DISCOMS may be instructed to announce open policy to purchase such power at pooled cost. He also stated that as per estimates, a saving of at least Rs.6 lakh per MW connected to network is made by way of reduced technical losses. The development of such small projects especially the solar and wind projects especially at tail end of distribution is also being globally encouraged and would also lead to employment opportunities at the local place. He also requested that APDISCOMS be asked to give their opinion on these suggestions.
173. Sri Prabhakar also requested that power cuts should not be imposed in villages nearer to power plants, say in 4-5 km range of a power plant.
174. He also stated that as the Forum of Regulators decided to implement Renewable Energy Certificate Mechanism in India, the CERC issued guidelines and about 10 states have started implementation. APERC, as one of the members of FOR may give top priority to tap the Renewable Energy sources available in the State and since the

present regulations are stated to be not attractive for the established RE project developers, suitable modifications may be made

Replies of Licensees: The details asked for by Shri PS Chiranjeevi were furnished.

As regards the suggestions of Shri Prabhakar, they explained in detail about the measures, the encouragement to solar and wind energy as per MNRE and APERC guidelines, the renewable power purchase obligation, the open access system being made available to generators above 1MW and the evacuation plans in place for small developers. As regards request to not impose power cuts in 3-5 KM areas around a power plant, they offered no comments.

Commission's views: DISCOMS should actively encourage such NRE sources of energy.

Consumer service

175. Sri DV Laxmi Narayana filed the following objections: (a) While publishing the objections/suggestions of the consumers, along with the responses of the DISCOMs in the Tariff Order, APERC may also publish their views/orders so as to give confidence to the consumers (b) In the TO for FY2010-11, SPDCL misled the Commission that the shifting of meters is being done by the staff (c) Differential development, deposit and other charges are being demanded when service is changed from cat-I to cat-II; but, the same are not being refunded, when the service is changed from cat-II to cat-I (d) Many consumers are not aware that 'first-time burnt meters' would be replaced free of cost; it is not being implemented in Guntur district

(e) No rules are being followed in erection of DTRs for Commercial complexes & Apartments, where consumers are to bear the expenditure; if money is not paid, even for 6KW, payment for a separate DTR is being insisted, whereas is for load up to 50KW, DTR is not being insisted, if money is paid (f) Measures shall be taken by the DISCOM for proper seals to the meters installed; in cases, where seals are weakened/broken due to ageing also, DISCOMs' staff is harassing the consumers in the name of theft/pilferage.

Replies of SPDCL: (a) under the purview of Commission (b) any specific cases where staff is not doing, may be brought to the notice of the DISCOMs officers to take necessary action (c) while getting category change for the old service, no need to pay any development charges for the load already record, except, the additional consumption deposit charges proportionate to the consumption. Any deviation in this may be brought to the notice of the officers of the DISCOM (d) Instructions in this regard for already issued to all the concerned; any deviation in this may be brought to the notice of the officers of the DISCOM (e) DISCOM will initiate action if the specific cases are reported (f) Suggestion is noted.

Commission's views: The Commission is of the opinion that in many cases the consumers need to be educated more about their rights and charges actually payable. The DISCOMS should examine this and come up with a program to conduct such consumer awareness and consumer contact programs atleast once in a quarter in every division. DISCOMs should be more sensitive to consumer needs.

Composition of CGRFs

176. It was suggested by many of the objectors that for impartial functioning of the CGRFs, the retired employees only shall be posted in them as present employees would not take decisions against the Company.

Replies of Licensees: Under the purview of Commission.

Commission's views: The composition is determined as per regulations.

The DISCOMs should take steps to build greater awareness in employees deputed to Forums to be balanced and unbiased in the discharge of their duties.

Discouraging response from toll free number centres

177. Consumers are not getting proper responses from the Toll Free Numbers of the DISCOMs.

Replies of Licensees: such specific incidents may be brought to the notice of the DISCOMs with details (All DISCOMs).

Commission's views : The Commission directs the

DISCOMS to take proper action and ensure proper functioning of the call centres in attending to the calls of the consumers to get their problems pertaining to power supply resolved without delays .

SAFETY

178. **Sri D Ram swami Reddy** suggested not to use LT-3 Ph DTRs (11KV/400V) for release of Domestic Services, in place of Single phase 11KV DTRs, to avoid electrical accidents, as there is every possibility of entire village getting electrocuted in the event of failure of earths

Some of the other objectors like **Sri K.Rajendra Reddy** and **Sri Vandri Naidu of Chittor** etc also requested the DISCOMS to have proper earthing and to lay fourth wire (neutral) in rural areas as a safety measure wire to prevent accidents as per the directions issued by the Commission.

Replies of Licensees: All the agriculture DTRs are 3-ph only, for which only LT neutral will be earthed as per standard. For single phase DTRs erected for lighting purpose at remote villages, instead of running neutral wire from 33/11 kV SS (which is not feasible), separate earthlings for HT and LT are provided at the respective DTRs as per standards.

Commission's views: 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 DISCOMs are directed not to extend power supply by using 6.3 kV single phase distribution transformers without providing neutral wire from the sub station henceforth. In respect of all existing systems neutral wire shall be provided by 31-12-2011. Contravention of above direction will attract penal provisions under sec 142 of Electricity Act 2003.

Study of Functioning of Lok Adalats in settlement of compensation claims

179. **Shri K.Rajendra Reddy** stated that accident compensation is taking lot of time. He suggested that Permanent Lok Adalats for public utility services, which are functioning in some select cities, are functioning in a time bound manner (60 days time to settle issue) and

a similar procedure should be adopted for settlement of accident compensation claims for loss of human lives and cattle lives.

Reply of SPDCL: Suggestion would be examined.

Commission's views:

The suggestion on functioning of Lok Adalats may be examined and the DISCOMs and the CGRF may obtain the rule/procedure followed in such Lok Adalat on settlement of compensation claims, examine and report their observations to Commission by 30/06/2011.

Erection of DTRs on plinths

180. Sri K Rajendra Reddy stated that DTRs are being erected on the plinth, giving scope for easy meddling by the unauthorized persons. He wanted the DISCOMs to opt for pole mounting methods as was done earlier.

Reply of SPDCL: Suggestion is noted.

Commission's views: The idea may be examined and implementation issues, if any, should be brought to Commission's notice.

Providing AB switches to HVDS Transformers.

181. Sri Muniratnam reddy, Sri K.Vanadri Naidu, Sri B.Chandramouli, Sri K.Rajendra Reddy suggested that the HVDS system should have a ON/OFF switch like it is there in a transformer. The switch should also be accessible so that it can be turned off in case of any emergency for safety purpose.

Reply of SPDCL: AB switches are being arranged for all mother transformers in the HVDS system.

Commission's view:

The details of progress made on providing AB switches to the HVDS Transformers shall be submitted to the Commission. An interim report shall be submitted by 31/10/2011 and final report by 31/12/2011.

Power theft in CPDCL area

182. Sri A Punna Rao sought for the information regarding the pilferage of power in all the circles: Hyderabad (South); Hyderabad (North);

Hyderabad (Central) and RR North may be furnished to know about the actual position; He also suggested that CPDCL with 7 Districts and drawing about 46% of power in the state appears to be lagging in several aspects when compared to SPDCL and EPDCL.

Replies of APCPDCL: The information was given in Table 48.

Table 48: Power Supplied and Billed in CPDCL area.

| Circle | 2007-08 | | 2008-09 | | 2009-10 | |
|----------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|
| | Power supplied in MU | Power Billed in MU | Power supplied in MU | Power Billed in MU | Power supplied in MU | Power Billed in MU |
| HYD(N) | 2501.64 | 2321.49 | 2679.66 | 2461.28 | 2944.95 | 2603.04 |
| HYD(S) | 1384.22 | 747.38 | 1481.13 | 777.97 | 1649.84 | 847.91 |
| HYD(C) | 1243.50 | 1044.82 | 1355.84 | 1115.36 | 1403.33 | 1182.69 |
| RR North | 2860.86 | 2542.85 | 3138.08 | 2797.92 | 3461.79 | 2986.33 |

Commission's views: The DISCOMS should examine the possibilities of franchisee arrangement in areas with high losses. The DISCOMs should also involve local NGOs or prominent citizens to spread awareness and enforce anti-theft rules with police help if required.

Reorganisation of Supply Areas of Licensees

183. Sri Punna Rao also suggested that a proposal may be submitted to APERC and govt. of AP to restructure M/s CPDCL as (a) Hyderabad DISCOM (Hyderabad, Ranga Reddy & Medak); (b) Nalgonda DISCOM (Nalgonda, Mahabubnagar & Khammam); As regards M/s SPDCL, it was suggested that it may be restructured as (a) Tirupathi DISCOM (Chittoor, Kadapa, Ananthapur & Kurnool) and (d) Ongole DISCOM (Nellore, Prakasham, Guntur and Krishna).

Replies of Licensees: Creation of DISCOMS is not in the purview of DISCOMS.

Commission's views: This is a matter of policy. It is not a Tariff Order issue.

Objections/Suggestions by Granite Owners

184. **M/s Khammam granite Owners' Association** submitted that (a) abnormal delays are taking place in the replacement of faulty CTs/PTs of the Industrial Services (b) Due to higher tariffs for granite industries services, many of these units are going out of the state (c) Demanding the Industrial consumers to pay the FSA charges of the earlier years is not justified as the same is an additional financial burden to the consumers; hence FSA charges for previous years may be banned (d) To come over the problems of regular power interruptions to the Granite industries units, a separate feeder may be provided to ensure 24-Hr power supply to these units.

Replies of APNPDCL: (a) DISCOM is taking all the necessary steps to replace faulty CTs/PTs promptly (b) Tariffs are decided based on the Cost of Service (c) not possible (d) possible, if the respective consumers come forward to bear the total cost of the exclusive line for them.

Commission's views: To cover such contingencies a system is already in vogue by which power supply can be extended directly and billing can be done based on average consumption for the period of bypassing of the meter after taking an undertaking from the consumer to this effect. This procedure should invariably be followed. The Commission agrees with the view expressed during the public hearing by the petitioner consumer that breakdowns and delays in repairs ultimately cost DISCOMS revenue as sale of power

does not take place. It is not just the consumer who is hurt. The DISCOMS should instruct their field offices to bear it in mind and attend to any disruption promptly.

Objections/Suggestions by Sri RHN Sharma

185. Sri RHN Sharma of Lok Satta Party, Visakhapatnam filed the following objections/suggestions: (a) unit rate from 0 to 50 units may be reduced to 135 paisa/unit which would be help full to the consumers come under BPL or the monthly minimum charges may be scrapped for BPL consumers; the offices of Advocates, Accounts Organizations consulting rooms of accounts etc, may be brought to the non Domestic / Commercial category where the same are situated in the premises of residential buildings under cat-I domestic; If there is an actual and real income collected from the culprits of theft of energy / malpractice nothing is wrong to show this income in the column for the year 2010-11; of course, it is not appropriate to forecast this kind of income for the year 2011-12; The unauthorized additional load prevailing in Domestic and Non-Domestic services is ignored by all the DISCOMs though it is an offence under section 126 of Electricity Act 2003 (b) it is stated that the display of details of replacement of failed DTRs will be implemented at the divisional, sub divisional and section offices as per directive. It is yet to be done (c) The full address and phone numbers of CGRF should be printed on CC bills forms. Strict instructions are required to be issued to licensee by APERC. The main hurdle for the free functions of CGRF is that the Chairperson and Members are employees of company. It is suggested

that the CGRF may be reconstituted with the experienced, qualified, reliable persons from the outside. A qualified person in law with sufficient experience may be appointed as member legal (d) In the CC bills being issued, the alignment is not proper; the bills are very ugly and rubbish; the meter readings are not being taken on fixed dates as per rule; suppression of meter readings is being taken place.

Replies of APEPDCL: (a) Under the purview of APERC (b) EPDCL is putting all the efforts to comply with the directives of the Commission (c) While the appointment of licensee's own Chief Engineer as Chairman is not in violation of the legal provisions/regulations, the Commission has nominated a consumers' representative as member with voting rights (d) suggestion is noted; corrective measures would be taken up.

Commission's views:

- a) The Commission views that the detailed reports furnished by the 4 DISCOMS in their ARR filings on creation of BPL categories are elaborate and adequate.
- b) As regards charging doctors/lawyers etc under LT-II, the offices and establishments are covered under LT-II.
- c) On giving publicity to the CGRFs, the Commission already issued clear & detailed directives to the DISCOMs. To make them more effective, Commission has decided to continue the directives already issued in this regard for continuous compliance by the DISCOMs.
- d) On other issues, DISCOM'S reply is satisfactory.

HT connections in RESCOs

186. Sri Lalith Kumar Jain of Vizianagaram submitted that while extending power supply to the HT consumers, who have their Industrial Units in the border areas of DISCOM & RESCO, EPDCL is

insisting the consumers to get the services connected from the 11KV line of DISCOM only, though it is far away, instead of allowing the HT consumers to get connected to the nearby 11KV line of RESCO. With this, HT consumers are compelled to bear higher expenditure for the extension of power supply from the far away EPDCL's 11KV line

Reply of APEPDCL: EPDCL cannot extend power supply to its consumers from the RESCO's 11 KV network as it amounts to the violation of APERC regulations.

Commission's views: Regarding the supply from RESCO's 11 kV line, though it looks reasonable from the consumer point of view to take connection/supply from a line that is about 2 KM away rather than from a line 9 km away, there will be many such cases as every consumer on the periphery or at the cusp of the jurisdictional boundaries of RESCO and DISCOM, would have similar grievances. Jurisdictional lines have to be drawn somewhere and once they are drawn, they have to be followed. Making individual exceptions will lead to eventual breakdown of jurisdictional boundaries.

Aggregation of demand of industrial consumers and open access

187. FAPCCI suggested that the DISCOMS may follow Aggregation of consumers for Open access during power shortage times as in Tamil Nadu and Punjab. It also suggested to examine making third shift time slot of 10PM to 6AM as open access power distribution time with appropriate pricing incentive and kWh billing so that more consumers take up 3rd shift and open access and make more power available to non open access consumers. This has many advantages like smoothening

power demand curve and ability to give power to agricultural consumers during day time as per their long pending demand.

Replies of Licensees: No specific views are expressed.

Commission's view: The DISCOMS may have a discussion with Industrial consumers and evolve a suitable time slot and methodology for open access power if R & C measures become inevitable. Suggestions regarding incentives and kWh billing are not accepted.

Transformer Location for Residential and Commercial Complexes

188. Some objectors pointed out that many residential/commercial complexes/shops have not erected their dedicated transformers inside their premises as per rules but are erecting these transformers outside on roads posing a risk and also encroaching on public property.

Commission's views: The Commission directs Licensees;

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.

CHAPTER VII STATEMENT OF GOVERNMENT OF ANDHRA PRADESH

Statement

“ Honourable Chairman And Members Of APERC

189. I am thankful to the Hon'ble Commission for giving this opportunity to present the views of the Government of Andhra Pradesh in the context of Annual Revenue Requirement (ARR) and Tariff determination for the financial year 2011-12.
190. All the Electricity utilities have performed exceptionally well. The transmission and distribution utilities have reduced T&D losses from 18.34% in 2009-10 to 17.36% in 2010-11 (upto December 2010). The per capita consumption at the end of 2009-10 is 929 units. The APTRANSCO bagged Enertia Awards 2010 under overall utility performance (State) and also won Special Award in India Power Awards 2010 conferred by Council of Power Utilities for overall performance.
191. The APGENCO is the largest power generating Company of A.P.State with installed capacity of 8384.5 MW comprising Thermal: 4592.5 MW (55%) Hydel: 3790.36 MW (45%) and Wind power 2 MW. Keeping in view of future power needs APGenco has planned to take up 25 new power projects of total capacity of 19,626 MW benefiting from XI Plan. Out of that, 6 projects have already been completed (1834 MW) and 4 Thermal Projects (3749 MW) and 4 Hydro projects (449 MW) are under construction.

192. APTRANSCO and DISCOMs have added 1 No. 400 KV substation, 4 Nos. 220 KV substations, 13 Nos. 132 kV substations, 157 Nos. 33 KV substations and 46395 Nos. of Distribution Transformers during the year 2010-11 up to January, 2011. Another 4 Nos. 220 kV & 9 Nos. 132 kV substations with associated lines are expected to be completed by end of 2010-11.
193. APTRANSCO has undertaken Hyderabad city improvement scheme with financial assistance from JICA, PFC and other Financial Institutions at an estimated cost of Rs.1600 Crs. To strengthen the transmission network in the city, 1 No. 400 Kv, 10 Nos 220 KV substations and 9 Nos. 132 KV substations are programmed in Rangareddy and Hyderabad Districts, under the schemes.
194. During 200-10, 11,46,360 consumers were added bringing the total no. of consumers in the State to 2,18,27,399. Up to the end of January, 2011, a total no. of 9,00,060 consumers were added to the network bringing the no. of consumers served by the four DISCOMs to 2,27,27,459 Nos.
195. During 2009-10, 88,604 No. of agricultural connections were released and this year already 86,056 nos. agricultural connections were released till the end of January, 2011. The total no. of agriculture services released during this year will be the highest when compared to the no. of services released during any one year in the last decade. To give importance to farm section, all the four DISCOMs are implementing HVDS to agriculture consumers to give better quality power by reducing the length of conventional LT Lines. Already HVDS

is implemented in respect of 6,56,249 agricultural services at an invested cost of Rs.2072 Cr.

196. The DISCOMs have already started pilot projects in all Districts at a cost of Rs. 81 Cr. to segregate mixed rural feeders into dedicated agriculture feeders and non agricultural rural feeders in one mandal in each district. This is expected to facilitate rural feeders to provide continuous three phase power supply to rural areas which will in turn promote rural industrialization and increase the non-farm income prospect in rural area. The total estimated amount for segregation of mixed feeders into exclusively agriculture and rural is about Rs. 3014 Cr, for entire State.
197. Restructured APDRP is another flagship programme of Government of India being implemented by APDISCOMS. The programme aims at actual demonstrable performance in terms of sustained loss reduction. An amount of Rs. 399 Cr has been sanctioned for establishment of base line data and IT applications for energy accounting / auditing and IT based consumer service centers. An amount of Rs. 1057 Cr has been sanctioned for strengthening of distribution such as renovation, modernization and strengthening of DTRs, reconditioning, load bifurcation etc.
198. Government of Andhra Pradesh have given foremost importance to the development of Power Sector. In its endeavour to provide quality and uninterrupted supply of power to all consumers in the State, particularly the consumers in the rural areas, 30.29 lakh rural households have been electrified under RGGVY and 2.14 lakh urban

householders have been electrified under INDIRAMMA programme up to 31-01-2011.

199. The Government is committed to the welfare of the farmers and is providing free power to all eligible agricultural consumers since 14.05.2004 and has been providing necessary subsidy besides amount for purchasing additional power to meet the additional demand. An amount of Rs. 4500 Cr has been earmarked towards subsidy during the financial year 2010-11.
200. The Government is committed to the cause of industrial development in the State and it is a matter of pride that the State of Andhra Pradesh has one of the lowest Industrial HT Tariffs in the country.
201. Case-I bidding process has been initiated by APDISCOMS for procurement of 2000 MW of power as per Government of India guidelines with the approval of the Commission.
202. The State utilities have planned to invest an amount of Rs. 3511 Cr in the Financial year 2011-12 to strengthen the Transmission and Distribution systems to meet the additional load growth and to improve voltage profiles.
203. The fillings made by the utilities for the financial year 2011-12 , reflect the key objectives set by the Government of Andhra Pradesh.
204. To conclude, the Government is committed to providing necessary financial assistance as needed by the power section in the State by providing subsidy to the utilities in accordance with the provisions of section 65 of the Electricity Act, 2003 ”.

**SUTIRTHA BHATTACHARYA
PRINCIPAL SECRETARY TO GOVERNMENT**

CHAPTER-VIII TARIFF DETERMINATION FOR FY2011-12

Introduction

205. In chapter IV, the revenue receipts of the DISCOMS have been examined. The Licensees, with their proposed tariff schedule including modifications made by the Commission, are unable to recover the approved ARR for FY2011-12. The revenue gap, revenue requirement in excess of revenue from tariffs and other sources, is estimated at Rs.4146 Cr. for FY2011-12. The Commission has decided to fix the tariff/rates to recover the approved ARR in full for FY2011-12. This process involves fixation of tariff/rates for full cost recovery, consultation with Government of Andhra Pradesh pursuant to its statement made in course of public hearing regarding its commitment to provide assistance to DISCOMS u/s 65 of the Electricity Act 2003, and the final determination of tariff/rates for FY2011-12 after obtaining the views and commitment of GoAP u/s 65 of the Electricity Act 2003.

Tariff/Rates Determination for Full Cost Recovery

Methodology for full cost recovery tariff/rates determination

206. The Commission has computed the Cost of Service (CoS) for each major category of consumers. With the adoption of the rates as mentioned in Chapter-IV for select consumer categories and Licensee proposed tariff for other consumer categories, the revenue from tariffs has been recomputed.
207. The approved non tariff income as detailed in Chapter IV is also apportioned among different consumer categories based on total

revenue from tariffs. The revenue computed in this manner is the basis for full cost tariff calculation.

208. Based on the cost of service and revenue from each consumer category, consumer categories are 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 available from subsidizing categories is allocated to subsidized categories in the ratio of a category's deficit to the total deficit of all subsidized categories.
209. The Commission has computed the cost for each consumer category in accordance with the cost of service (CoS) determined and sales approved. The revenue from tariffs has been computed through adopting the Licensees' proposed tariff with modifications made by the Commission. The estimated non-tariff income is apportioned among different consumer categories in proportion to their revenue from tariffs to total revenue from tariffs.
210. After allocation of the surplus available from subsidising consumers, the net deficit (cost of service for that category less revenue from the category and surplus allocated to that category) for each subsidised consumer category is computed as there will be no other source of revenue to meet the remaining cost. The proposed energy tariff by Licensees for the **subsidised** consumer categories is then revised upwards by an amount equal to net deficit divided by

approved sales. Accordingly, the revenue from tariff and allocated surplus will meet the cost of service for each category.

Full Cost Recovery Tariff/Rates

211. The Commission, with the rates proposed for select consumer categories as discussed in Chapter-IV and for the remaining consumer categories in accordance with the principle elucidated in the above paragraphs, has drawn up a full cost recovery tariff schedule (FCRTS) for each Licensee. If the Licensees levy the tariff as per FCRTS for FY2011-12, they would recover the approved ARR in full. The details of FCRTS and revenue at FCRTS are given in Table 49 and Table 50

Table 49: Full Cost Recovery Tariff Schedule(FCRTS) for FY2011-12

| CATEGORY | kVA/ Rs/ Month | HP/ Rs/ Month | Energy Tariff to Recover Full Cost (ARR) Rs/kWh | | | |
|-----------------------------------|----------------------|---------------------|--|-------|-------|-------|
| | | | CPDCL | EPDCL | NPDCL | SPDCL |
| LT-I: Domestic | | | | | | |
| 0 - 50 | | | 2.37 | 2.24 | 3.97 | 2.48 |
| 51 - 100 | | | 3.34 | 3.12 | 4.08 | 3.34 |
| 101 - 200 | | | 3.46 | 3.31 | 4.06 | 3.43 |
| 201 - 300 | | | 5.23 | 5.23 | 5.23 | 5.23 |
| 300-500 | | | 6.00 | 6.00 | 6.00 | 6.00 |
| >500 | | | 6.25 | 6.25 | 6.25 | 6.25 |
| LT-II: Nondomestic/Commercial | | | | | | |
| 0-50 | | | 3.85 | 3.85 | 3.85 | 3.85 |
| 51-100 | | | 6.20 | 6.20 | 6.20 | 6.20 |
| >100 | | | 6.50 | 6.50 | 6.50 | 6.50 |
| LT-II(B) Advertising Hoardings | | | 2.00 | 2.00 | 2.00 | 2.00 |
| LT-III (A) - Industrial | | | | | | |
| Industrial Normal | | 50 | 4.13 | 4.13 | 4.13 | 4.13 |
| Industrial Optional | 150 | | 4.13 | 4.13 | 4.13 | 4.13 |
| Pisciculture/Prawn culture | | 50 | 1.25 | 1.25 | 1.25 | 1.25 |
| Sugarcane crushing | | 50 | 0.75 | 0.75 | 0.75 | 0.75 |
| LT-III (B) - Industrial | | | | | | |

| CATEGORY | kVA/ Rs/ Month | HP/ Rs/ Month | Energy Tariff to Recover Full Cost (ARR) Rs/kWh | | | |
|---|----------------------|---------------------|--|-------|-------|-------|
| | | | CPDCL | EPDCL | NPDCL | SPDCL |
| (Optional) | | | | | | |
| SSI Units | 150 | | 4.13 | 4.13 | 4.13 | 4.13 |
| Seasonal Industries | 150 | | 4.80 | 4.80 | 4.80 | 4.80 |
| LT-IV - Cottage Industries & Dhobighats | | 10 | 2.79 | 2.52 | 3.41 | 2.96 |
| LT-V - Irrigation and Agriculture | | | | | | |
| LT: (A) - Agriculture | | | | | | |
| DSM | | | | | | |
| Corporate Farmers & IT Assesses | | | 1.97 | 1.95 | 2.79 | 2.18 |
| Wet Land Farmers (Holdings >2.5 acre) | | | 1.09 | 1.13 | 2.62 | 1.55 |
| Dry Land Farmers (Connections > 3 nos.) | | | 1.17 | 1.14 | 2.58 | 1.55 |
| Wet Land Farmers (Holdings <= 2.5 acre) | | | 0.97 | 0.94 | 2.64 | 1.39 |
| Dry Land Farmers (Connections <= 3 nos.) | | | 0.97 | 0.94 | 2.63 | 1.39 |
| Non-DSM | | | | | | |
| Corporate Farmers & IT Assesses | | | 2.64 | 2.67 | 2.94 | 2.50 |
| Wet Land Farmers (Holdings >2.5 acre) | | | 1.47 | 1.01 | 2.58 | 0.75 |
| Dry Land Farmers (Connections > 3 nos.) | | | 1.45 | 1.42 | 2.57 | 0.75 |
| Wet Land Farmers (Holdings <= 2.5 acre) | | | 0.95 | 0.95 | 0.30 | 0.30 |
| Dry Land Farmers (Connections <= 3 nos.) | | | 1.16 | 0.79 | 0.30 | 0.30 |
| LT- V (B) - Agriculture (Tatkal) | | | 1.24 | 1.19 | 2.62 | 1.59 |
| LT:VI - Local Bodies, St. Lighting & PWS | | | | | | |
| Street Lighting | | | | | | |
| Minor Panchayats | | | 2.77 | 2.73 | 4.68 | 3.29 |
| Major Panchayats | | | 3.17 | 3.18 | 4.79 | 3.64 |
| Nagarpalikas & Municipalities (Gr 3) | | | 3.71 | 3.66 | 4.91 | 4.07 |
| Municipalities (Gr 1&2) | | | 3.91 | 3.96 | 4.95 | 4.22 |
| Municipalities Selection Special Group | | | 4.11 | 4.17 | 4.98 | 4.33 |
| Corporations | | | 4.30 | 4.37 | 5.04 | 4.52 |

| CATEGORY | kVA/ Rs/ Month | HP/ Rs/ Month | Energy Tariff to Recover Full Cost (ARR) Rs/kWh | | | |
|--|----------------------|---------------------|--|-------|-------|-------|
| | | | CPDCL | EPDCL | NPDCL | SPDCL |
| PWS Schemes | | | | | | |
| Minor/Major Panchayats | | | | | | |
| Upto 2500 units/Yr | | 10 | 1.94 | 1.82 | 4.26 | 2.71 |
| Above 2500 units/Yr | | 10 | 2.17 | 2.12 | 4.59 | 2.88 |
| All Nagarpalikas & Municipalities | | | | | | |
| Upto 1000 units | | 20 | 3.96 | 3.80 | 3.75 | 4.09 |
| More than 1000 units | | 20 | 4.20 | 4.26 | 5.04 | 4.46 |
| Municipal Corporations | | | | | | |
| Upto 1000 units | | 30 | 4.07 | 4.12 | 4.05 | 4.32 |
| More than 1000 units | | 30 | 4.60 | 4.65 | 5.13 | 4.74 |
| LT-VII - General Purpose | | 20 | 4.13 | 4.12 | 4.85 | 4.22 |
| LT- VIII-Temporary Supply | | | | | | |
| Temporary Supply (Other than Irrigation and Agriculture) | | | 6.82 | 6.82 | 6.82 | 6.82 |
| Temporary Supply for agriculture | | | 2.30 | 2.30 | 2.30 | 2.30 |
| New L T Categories (Total) | | | | | | |
| LT V(A) (i) Salt farming units with connected load upto 15HP | | | 1.00 | 1.65 | 1.00 | 1.92 |
| LT V(A) (ii) Rural Horticulture Nurseries | | | 1.62 | 1.59 | 2.86 | 1.94 |
| LT- VII - B | | | | | | |
| up to 200 | | 10 | 2.72 | 2.73 | 4.67 | 2.18 |
| >200 | | 10 | 4.10 | 4.26 | 5.07 | 4.23 |
| HT Category at 11 kV | | | | | | |
| HT-I Indl Segregated | 250 | | 3.52 | 3.52 | 3.52 | 3.52 |
| Lights & Fans | | | 4.72 | 4.72 | 4.72 | 4.72 |
| Colony consumption | | | 4.50 | 4.50 | 4.50 | 4.50 |
| Seasonal Industries | 250 | | 4.80 | 4.80 | 4.80 | 4.80 |
| HT - I(B) Ferro-alloys | | | 2.65 | 2.65 | 2.65 | 2.65 |
| HT-II - Industrial Non Segregated | 250 | | 4.80 | 4.80 | 4.80 | 4.80 |
| HT -IV A Govt Lift Irrigation | | | 2.61 | 2.60 | 3.05 | 2.60 |
| HT -IV B Irrigation & Agriculture | | | 0.62 | 0.00 | 2.72 | 0.00 |
| HT-VI -Colony Supply | 250 | | 4.50 | 4.50 | 4.50 | 4.50 |
| Rural co-operatives | | | (1) | (1) | (1) | (1) |

| CATEGORY | kVA/ Rs/ Month | HP/ Rs/ Month | Energy Tariff to Recover Full Cost (ARR) Rs/kWh | | | |
|---|----------------------|---------------------|--|-------|--------|-------|
| | | | CPDCL | EPDCL | NPDCCL | SPDCL |
| Temporary | | | (2) | (2) | (2) | (2) |
| Composite Public Water Supply Schemes | | | 1.57 | 1.00 | 2.87 | 1.00 |
| HT-I(A) Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 | 1.00 | 1.00 | 1.00 |
| HT Category at 33 kV | | | | | | |
| HT-I Indl Segregated | 250 | | 3.25 | 3.25 | 3.25 | 3.25 |
| Lights & Fans | | | 4.70 | 4.70 | 4.70 | 4.70 |
| Colony consumption | | | 4.50 | 4.50 | 4.50 | 4.50 |
| Seasonal Industries | 250 | | 4.30 | 4.30 | 4.30 | 4.30 |
| HT - I (B) Ferro-alloys | | | 2.65 | 2.65 | 2.65 | 2.65 |
| HT-II - Industrial Non Segregated | 250 | | 4.30 | 4.30 | 4.30 | 4.30 |
| HT -IV A Govt Lift Irrigation | | | 2.65 | 2.60 | 3.09 | 2.81 |
| HT -IV B Irrigation & Agriculture | | | 0.86 | 0.00 | 0.00 | 0.00 |
| HT-VI -Colony Supply | 250 | | 4.50 | 4.50 | 4.50 | 4.50 |
| Rural co-operatives | | | (1) | (1) | (1) | (1) |
| Temporary | | | (2) | (2) | (2) | (2) |
| Composite Public Water Supply Schemes | | | 1.58 | 1.00 | 1.00 | 1.00 |
| HT-I(A) Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 | 1.00 | 1.00 | 1.00 |
| HT Category at 132 kV | | | | | | |
| HT-I Indl Segregated | 250 | | 2.97 | 2.97 | 2.97 | 2.97 |
| Lights & Fans | | | 4.67 | 4.67 | 4.67 | 4.67 |
| Colony consumption | | | 4.50 | 4.50 | 4.50 | 4.50 |
| Seasonal Industries | 250 | | 4.10 | 4.10 | 4.10 | 4.10 |
| HT - I (B) Ferro-alloys | | | 2.65 | 2.65 | 2.65 | 2.65 |
| HT-II - Industrial Non Segregated | 250 | | 4.10 | 4.10 | 4.10 | 4.10 |
| HT -IV A Govt Lift Irrigation | | | 2.65 | 2.60 | 3.09 | 2.60 |
| HT -IV B Irrigation & Agriculture | | | 0.00 | 0.00 | 0.00 | 0.00 |
| HT-V -Railway Traction | | | 4.45 | 4.45 | 4.45 | 4.45 |
| HT-VI -Colony Supply | 250 | | 4.50 | 4.50 | 4.50 | 4.50 |
| Rural co-operatives | | | (1) | (1) | (1) | (1) |
| Temporary | | | (2) | (2) | (2) | (2) |

| CATEGORY | kVA/ Rs/ Month | HP/ Rs/ Month | Energy Tariff to Recover Full Cost (ARR) Rs/kWh | | | |
|---|----------------------|---------------------|--|-------|-------|-------|
| | | | CPDCL | EPDCL | NPDCL | SPDCL |
| Composite Public Water Supply Schemes | | | 1.00 | 1.00 | 1.00 | 1.00 |
| HT-I(A) Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 | 1.00 | 1.00 | 1.00 |
| Notes (1) ANAKAPALLI Rs.1.36/kWh, CHEEPURUPALLI Rs.1.21/kWh SIRICILLA Rs.2.17/kWh, KUPPAM Rs.1.40/kWh (2) 1.5 times of corresponding HT category tariff | | | | | | |

Table 50: Revenue at Full Cost Recovery Tariff for FY2011-12(Rs.Cr.)

| Category Code | Category Title | REVENUE, Rs.Cr | | | | TOTAL |
|---------------|-----------------------------------|----------------|---------|---------|---------|----------|
| | | CPDCL | EPDCL | NPDCL | SPDCL | |
| LT-I | Domestic | 2472.44 | 1103.24 | 1065.59 | 1703.93 | 6345.21 |
| LT-II | Non-Domest/Commercial | 1321.25 | 470.38 | 306.54 | 694.10 | 2792.27 |
| LT-III | Industry | 644.01 | 237.95 | 165.08 | 430.21 | 1477.25 |
| LT-IV | Cottage Industries and Dhobighats | 4.83 | 0.63 | 2.97 | 9.92 | 18.34 |
| LT-V | Agricultural | 763.79 | 159.87 | 1008.08 | 617.61 | 2549.34 |
| LT-VI | Str.Lighting and PWS Schemes | 308.39 | 94.53 | 225.98 | 208.21 | 837.11 |
| LT-VII | General | 32.80 | 17.07 | 16.23 | 26.34 | 92.44 |
| LT-VIII | Temporary Supplies | 2.38 | 0.33 | 0.08 | 0.79 | 3.58 |
| HT-I | Industry: General | 4645.38 | 1641.42 | 475.35 | 1939.57 | 8701.72 |
| HT-II | Non-Industrial | 981.95 | 290.68 | 56.51 | 296.20 | 1625.35 |
| HT-IV | Govt. LIS and Agriculture | 107.23 | 52.82 | 124.33 | 19.71 | 304.09 |
| HT-V | Railway Traction | 84.14 | 262.50 | 184.97 | 264.87 | 796.48 |
| HT-VI | Colony Lighting | 61.69 | 22.64 | 79.90 | 37.73 | 201.97 |
| HT-VII | Others | 3.67 | 29.86 | 139.07 | 40.15 | 212.75 |
| Total | All Categories | 11433.97 | 4383.92 | 3850.68 | 6289.34 | 25957.90 |
| ARR Approved | | 11433.97 | 4383.92 | 3850.68 | 6289.34 | 25957.90 |

Indicative Tariff Schedule (ITS)

212. The Commission with due consideration to the statement made by GoAP indicating its commitment to provide subsidy u/s 65 of the Electricity Act 2003 and proposed tariff to be levied by Licensees for

FY2011-12, has drawn up a separate Indicative Tariff Schedule (ITS) applicable to all four Licensees FY2011-12.

213. In this ITS, the Commission has included the rates proposed to be kept by the Commission as discussed in Chapter-IV and Licensees' proposed tariff/charges for all other consumer categories except tariff for RESCOs. In case of RESCOs, the Commission has determined the tariff separately for each RESCO, to be paid to the respective Licensee for purchase of power and included the same in the ITS. The ITS drawn up is given in Table 51.

Table 51 :Indicative Tariff Schedule for FY 2011-12

| CATEGORY | kVA/ | HP/ | Energy |
|--|----------|----------|----------|
| | Rs/Month | Rs/Month | Rs/Month |
| Category I Domestic | | | |
| 0 - 50 | | | 1.45 |
| 51 - 100 | | | 2.80 |
| 101 - 200 | | | 3.05 |
| 201 - 300 | | | 5.23 |
| 300-500 | | | 6.00 |
| >500 | | | 6.25 |
| Category II - Non-domestic/Commercial | | | |
| 0-50 | | | 3.85 |
| 51-100 | | | 6.20 |
| >100 | | | 6.50 |
| LT-II(B) Advertising Hoardings | | | 8.50 |
| Category III (A) - Industrial | | | |
| Industrial Normal | | 50.00 | 4.13 |
| Industrial Optional | 150.00 | | 4.13 |
| Pisciculture/Prawn culture | | 50.00 | 1.25 |
| Sugarcane crushing | | 50.00 | 0.75 |
| Category III (B) - Industrial (Optional) | | | |
| SSI Units | 150.00 | | 4.13 |
| Seasonal Industries | 150.00 | | 4.80 |

| CATEGORY | kVA/ Rs/Month | HP/ Rs/Month | Energy Rs/Month |
|--|------------------|-----------------|--------------------|
| Category IV - Cottage Industries & Dhobighats | | 10.00 | 2.30 |
| Category V - Irrigation and Agriculture | | | |
| Category V (A) - Agriculture | | | |
| DSM | | | |
| Corporate Farmers & IT Assesses | | | 1.50 |
| Wet Land Farmers (Holdings >2.5 acre) | | | 0.30 |
| Dry Land Farmers (Connections > 3 nos.) | | | 0.30 |
| Wet Land Farmers (Holdings <= 2.5 acre) | | | 0.00 |
| Dry Land Farmers (Connections <= 3 nos.) | | | 0.00 |
| Non-DSM | | | |
| Corporate Farmers & IT Assesses | | | 2.50 |
| Wet Land Farmers (Holdings >2.5 acre) | | | 0.75 |
| Dry Land Farmers (Connections > 3 nos.) | | | 0.75 |
| Wet Land Farmers (Holdings <= 2.5 acre) | | | 0.30 |
| Dry Land Farmers (Connections <= 3 nos.) | | | 0.30 |
| Category V (B) - Agriculture (Tatkal) | | | 0.40 |
| Category VI - Local Bodies, St. Lighting & PWS | | | |
| Street Lighting | | | |
| Minor Panchayats | | | 1.87 |
| Major Panchayats | | | 2.50 |
| Nagarpalikas & Municipalities (Gr 3) | | | 3.29 |
| Municipalities (Gr 1&2) | | | 3.59 |
| Municipalities Selection Special Group | | | 3.88 |
| Corporations | | | 4.17 |
| PWS Schemes | | | |
| Minor/Major Panchayats | | | |
| Upto 2500 units/Yr | | 10.00 | 0.70 |
| Above 2500 units/Yr | | 10.00 | 1.00 |

| CATEGORY | kVA/ Rs/Month | HP/ Rs/Month | Energy Rs/Month |
|--|------------------|-----------------|--------------------|
| All Nagarpalikas & Municipalities | | | |
| Upto 1000 units | | 20.00 | 3.75 |
| More than 1000 units | | 20.00 | 4.05 |
| Municipal Corporations | | | |
| Upto 1000 units | | 30.00 | 4.05 |
| More than 1000 units | | 30.00 | 4.60 |
| Category VII - General Purpose | | 20.00 | 4.00 |
| Category VIII-Temporary Supply | | | |
| Temporary Supply (Other than Irrigation and Agriculture) | | | 6.82 |
| Temporary Supply for agriculture | | | 2.30 |
| New L T Categories (Total) | | | |
| LT V(A) (i) Salt farming units with connected load upto 15HP | | | 1.00 |
| LT V(A) (ii) Rural Horticulture Nurseries | | | 1.00 |
| Category VII - B | | | |
| up to 200 | | 10.00 | 2.00 |
| >200 | | 10.00 | 4.00 |
| HT Category at 11 kV | | | |
| HT-I Indl Segregated | 250.00 | | 3.52 |
| Lights & Fans | | | 4.72 |
| Colony consumption | | | 4.50 |
| Seasonal Industries | 250.00 | | 4.80 |
| HT - I(B) Ferro-alloys | | | 2.65 |
| HT-II - Industrial Non Segregated | 250.00 | | 4.80 |
| HT -IV A Govt Lift Irrigation | | | 2.60 |
| HT -IV B Irrigation & Agriculture | | | 0.00 |
| HT-VI -Colony Supply | 250.00 | | 4.50 |
| Rural co-operatives (1) | | | 0.00 |

| CATEGORY | kVA/ Rs/Month | HP/ Rs/Month | Energy Rs/Month |
|--|------------------|-----------------|--------------------|
| Temporary (2) | | | 6.45 |
| Composite Public Water Supply Schemes | | | 1.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 |
| HT Category at 33 kV | | | |
| HT-I Indl Segregated | 250.00 | | 3.25 |
| Lights & Fans | | | 4.70 |
| Colony consumption | | | 4.50 |
| Seasonal Industries | 250.00 | | 4.30 |
| HT - I (B) Ferro-alloys | | | 2.65 |
| HT-II - Industrial Non Segregated | 250.00 | | 4.30 |
| HT -IV A Govt Lift Irrigation | | | 2.60 |
| HT -IV B Irrigation & Agriculture | | | 0.00 |
| HT-VI -Colony Supply | 250.00 | | 4.50 |
| Rural co-operartives | | | 0.00 |
| Temporary (2) | | | 0.00 |
| Composite Public Water Supply Schemes | | | 1.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 |
| HT Category at 132 kV | | | |
| HT-I Indl Segregated | 250.00 | | 2.97 |
| Lights & Fans | | | 4.67 |
| Colony consumption | | | 4.50 |
| Seasonal Industries | 250.00 | | 4.10 |
| HT - I (B) Ferro-alloys | | | 2.65 |
| HT-II - Industrial Non Segregated | 250.00 | | 4.10 |
| HT -IV A Govt Lift Irrigation | | | 2.60 |
| HT -IV B Irrigation & Agriculture | | | 0.00 |
| HT-V -RailwayTraction | | | 4.45 |
| HT-VI -Colony Supply | 250.00 | | 4.50 |
| Rural co-operartives | | | 0.00 |
| Temporary (2) | | | 0.00 |
| Composite Public Water Supply Schemes | | | 1.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | | | 1.00 |

Consultation with GoAP

214. The ITS has been prepared keeping the Govt of AP's statement at the public hearing in view. Since the tariff/rates included in ITS for some consumer categories is less than tariff /rates included in FCRTS, the Licensees will not be able to recover the full cost for FY2011-12. Consequently, there will be an under-recovery of cost to the extent of Rs.4145.75 Cr for the four Licensees for FY2011-12. This would have to be made good by the GoAP in terms of section 65 of the Act, if this ITS is to be made applicable for FY 2011-12. Table 52 indicates Licensee wise, category wise revenue and the overall deficit for each Licensee.

Table 52: Revenue at Retail Tariff Schedule for FY2011-12(Rs.Crs.)

| Category Code | Category Title | REVENUE, Rs.Cr | | | | TOTAL |
|-------------------|-----------------------------------|----------------|---------|---------|---------|----------|
| | | CPDCL | EPDCL | NPDCL | SPDCL | |
| LT-I | Domestic | 2129.14 | 913.95 | 608.97 | 1385.09 | 5037.15 |
| LT-II | Non-Domest/Commercial | 1324.37 | 470.81 | 311.54 | 697.76 | 2804.48 |
| LT-III | Industry | 645.54 | 238.17 | 167.81 | 432.50 | 1484.02 |
| LT-IV | Cottage Industries and Dhobighats | 4.10 | 0.59 | 2.17 | 7.82 | 14.69 |
| LT-V | Agricultural | 46.94 | 13.88 | 44.47 | 42.19 | 147.49 |
| LT-VI | Str.Lighting and PWS Schemes | 243.96 | 70.11 | 88.21 | 122.05 | 524.33 |
| LT-VII | General | 31.90 | 16.40 | 13.34 | 25.26 | 86.89 |
| LT-VIII | Temporary Supplies | 2.39 | 0.33 | 0.08 | 0.80 | 3.59 |
| HT-I | Industry: General | 4656.43 | 1642.94 | 483.21 | 1949.92 | 8732.50 |
| HT-II | Non-Industrial | 984.34 | 290.95 | 57.45 | 297.78 | 1630.52 |
| HT-IV | Govt. LIS and Agriculture | 102.56 | 52.87 | 104.98 | 18.77 | 279.17 |
| HT-V | Railway Traction | 84.34 | 262.74 | 188.03 | 266.28 | 801.40 |
| HT-VI | Colony Lighting | 61.83 | 22.66 | 81.23 | 37.93 | 203.65 |
| HT-VII | Others | 3.68 | 17.77 | 31.23 | 9.60 | 62.28 |
| Total | All Categories | 10321.53 | 4014.15 | 2182.72 | 5293.75 | 21812.15 |
| Approved ARR/Cost | | 11433.97 | 4383.92 | 3850.68 | 6289.34 | 25957.90 |
| Revenue Gap | | 1112.44 | 369.77 | 1667.95 | 995.58 | 4145.75 |

215. The retail supply tariff determination details along with FCRTS and ITS were informed to the GoAP. The GoAP was informed that if the ITS was to be authorised by the Commission, the Licensees would have to be compensated under section 65 of the Act to the extent of Rs. 4145.75 Cr for FY2011-12.

Reply of GoAP indicating willingness to provide subsidy

216. In response to the letter of the Commission, the GoAP has informed that it is committed to provide subsidy of Rs.4145.75 Cr.

217. GoAP further directed the following:

- a) To retain the energy charges at Rs.4.75/ kWh for LT-I-category-domestic consumers for the tariff slab 201-300 kWh.
- b) To retain the energy charges at Rs.1.80 for LT-IV Cottage Industry.
- c) To discontinue the LT-V (B) Agriculture Tatkal category and merge the same into LT - V (A) Free category.
- d) To enhance the load limit for rice mills presently in LT-III A category to 100 HP.

218. The GoAP stated willingness to provide further subsidy required for the above directions.

219. The Govt decisions and directions at (a), (b) and (c) were accepted by the Commission and the additional tariff subsidy on account of these three modifications comes to Rs. 64 Cr over and above the amount of Rs 4145.75 Cr accepted by GoAP for authorising the indicative tariff schedule.

220. The details of the subsidy amount, agreed by the Government to be provided for different consumer categories in four Licensee's supply areas, are given in Table 53.

Table 53: GoAP Subsidy for FY2011-12(Rs.Crs.)

| Category Code | Category Title | REVENUE, Rs.Cr | | | | TOTAL |
|--|-----------------------------------|----------------|--------|---------|---------|---------|
| | | CPDCL | EPDCL | NPDCL | SPDCL | |
| LT-I | Domestic | 334.64 | 188.24 | 456.52 | 317.05 | 1296.45 |
| LT-II | Non-Domestic/Commercial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LT-III | Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LT-IV | Cottage Industries and Dhobighats | 0.76 | 0.04 | 0.81 | 2.08 | 3.69 |
| LT-V | Agricultural | 707.41 | 144.57 | 944.46 | 560.04 | 2356.49 |
| LT-VI | Str.Lighting and PWS Schemes | 63.62 | 24.24 | 136.36 | 84.46 | 308.68 |
| LT-VII | General | 1.22 | 0.68 | 3.03 | 1.18 | 6.11 |
| HT-IV | Govt. LIS and Agriculture | 4.78 | 0.00 | 20.63 | 1.01 | 26.42 |
| HT-V | Railway Traction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT-VI | Colony Lighting | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT-VII | Others | 0.00 | 11.99 | 106.14 | 29.77 | 147.90 |
| Total | All Categories | 1112.44 | 369.77 | 1667.95 | 995.58 | 4145.75 |
| Add on a/c of LT-1-domestic-201 to 300 | | 26.05 | 5.40 | 2.30 | 9.22 | 42.97 |
| Add on a/c of LT-IV category | | 0.78 | 0.10 | 0.37 | 1.59 | 2.83 |
| Add on a/c of LT-V(B) Deletion | | 1.95 | 4.29 | 1.44 | 10.73 | 18.41 |
| Total subsidy/compensation to DISCOMS u/s 65 of the Electricity Act 2003 | | 1141.23 | 379.56 | 1672.06 | 1017.12 | 4209.96 |

221. As regards the direction regarding load limit of Rice mills, the Commission's view is that this is a technical issue related to load and not related to tariff/ revenue. This issue will be examined separately.

CHAPTER-IX

RETAIL SUPPLY TARIFF SCHEDULE FOR FY2011-12

222. The Commission, in accordance with the decisions enumerated in earlier chapters, and in accordance with the GoAP decision to provide subsidy to maintain Indicative Tariff Schedule enumerated at para 213 together with the three changes enumerated at para 212 to 213, hereby determines the Retail Supply Tariff Schedule, and Terms and Conditions for FY2011-12 from 01-04-2011 to 31-03-2012 in respect of the four distribution licensees and the four rural electric cooperatives as given hereunder:

Retail Supply Tariff Schedule and Terms and Conditions

PART 'A' - 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 connected load exceeding 75 HP/56 kW excepting the LT III (B) industrial category.

H.T. CATEGORY - I (INDUSTRY)

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, Railway Stations, Printing Presses, Photo Studios, Research & Development Institutions, Bus Depots and other similar premises (The enumeration above is illustrative but not

exhaustive) not withstanding any manufacturing, processing or preserving goods for sale.

Note:

1. The Water Works of Municipalities and Corporations and any other Government organizations and pumping of water by industries as subsidiary function and sewerage pumping stations operated by local bodies shall come under HT-I category.
2. The Information Technology units identified and approved by the Consultative Committee on IT industry (CCITI) constituted by Govt. of AP also shall come under HT-I category.
3. The news paper printing units come under HT-I category.

A) INDUSTRY - GENERAL

| DEMAND CHARGES & ENERGY CHARGES | | |
|--|---|-----------------------------------|
| Voltage of Supply | Demand Charges Rs/kVA/month of Billing Demand | Energy Charges Paise/kVAh * |
| 132 kV and above | 250 | 297 |
| 33 kV | 250 | 325 |
| 11kV | 250 | 352 |
| * Rs.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 | | |

IMPORTANT

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

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

FSA will be extra as applicable as notified by the Commission from time to time

B) FERRO ALLOY UNITS

| DEMAND CHARGES & ENERGY CHARGES | | |
|---------------------------------|---|-------------------------------|
| | Demand Charges Rs/kVA/month of Billing Demand | Energy Charges Paise/ kVAh |
| Ferro Alloys | Nil | 265 |

Conditions

- i. 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.
- ii. The consumer shall draw his entire power requirement from DISCOMs only.

FSA will be extra as applicable as notified by the Commission from time to time

Notes:

1) Consumption of energy for lights and fans in factory

| ENERGY CHARGES | |
|-------------------|----------------------------|
| Voltage of Supply | Lights & Fans (Paise/kVAh) |
| 132kV and above | 467 |
| 33Kv | 470 |
| 11kV | 472 |

The consumption of energy for lights and fans in the factory premises in excess of 10% of total consumption shall be billed at the respective voltage wise tariff provided lights and fans consumption in the Unit is separately metered.

2) Case of non-segregation of fans and lights

In case segregation of light and fan loads has not been done, 15% of the total energy consumption shall be billed at the respective voltage wise tariff and the balance kVAh shall be charged at the corresponding energy tariff under HT category -I(A).

3) Colony Consumption

- a) 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 450 paise per kVAh.
- b) In case segregation of colony consumption has not been done, 15% of the total energy consumption shall be billed at 450 paise per kVAh and the balance kVAh shall be charged at the corresponding energy tariff under HT category -I(A).
- c) Wherever possible colonies of Industry shall be given a separate HT service under HT Category-VI: Townships and Residential Colonies.

4) Seasonal Industries

Where a consumer avails supply of energy for manufacture of sugar or ice or salt, decorticating, ginning and pressing, cotton seed oil mills, 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 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 under H.T. Category-II rates.

| DEMAND CHARGES & ENERGY CHARGES | | |
|--|--|----------------------------------|
| Voltage of Supply | Demand Charges Rs/kVA /month of Billing Demand# | Energy Charges Paise/kVAh |
| 132kV and above | 250 | 410 |
| 33Kv | 250 | 430 |
| 11kV | 250 | 480 |
| # Based on the Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher | | |

FSA will be extra as applicable as notified by the Commission from time to time

This concession is subject to the following conditions:

- 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. 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. For the current tariff year 2011-12, change can be made by any consumer by filing a declaration, duly intimating such change by 30/6/2011.
- 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.

H.T. CATEGORY-II: OTHERS

This tariff is applicable to all H.T. Consumers other than those covered under HT Categories I and IV to VII :

| DEMAND CHARGES & ENERGY CHARGES | | |
|--|---|--------------------------------------|
| Voltage of Supply | Demand Charges Rs/kVA/ month of Billing Demand | Energy Charges Paise/kVAh |
| 132kV and above | 250 | 410 |
| 33kV | 250 | 430 |
| 11kV | 250 | 480 |

IMPORTANT

- 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.

FSA will be extra as applicable as notified by the Commission from time to time

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 (Deleted)

H.T. CATEGORY-IV

(A) GOVT. LIFT IRRIGATION SCHEMES

This tariff is applicable to lift irrigation schemes managed by Government of A.P.

ENERGY CHARGES:

For all kVAh consumed during the month -- 260 paise/kVAh

FSA will be extra as applicable as notified by the Commission from time to time.

(B)- AGRICULTURAL

This tariff is applicable for consumers availing H.T. Supply for Irrigation and Agricultural purposes and not covered under HT Category IV(A).

ENERGY CHARGES: zero paise/kVAh

NOTE:

- i. If the supply is made beyond 7 hrs/day such additional energy shall be billed at HT-IV(A) Government Lift Irrigation Schemes tariff.
- ii. The metering is mandatory for both categories IV A&B and Energy reading shall be taken even if the supply is free.
- iii. The Customer Charges are payable as per PART 'C' herein.

FSA will be extra as applicable as notified by the Commission from time to time.

H.T. CATEGORY -IV(C)COMPOSITE PROTECTED WATER SUPPLY SCHEMES

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 | Paise 100/kVAh |
| Minimum Charges | Rs.300/HP/Year |

FSA will be extra as applicable as notified by the Commission from time to time.

H.T. CATEGORY-V - RAILWAY TRACTION

This tariff is applicable to all H.T. Railway Traction Loads.

NO DEMAND CHARGES

ENERGY CHARGES

For all kVAh consumed 445 Paise/kVAh

IMPORTANT

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

FSA will be extra as applicable as notified by the Commission from time to time.

HT CATEGORY -VI - TOWNSHIPS AND RESIDENTIAL COLONIES

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 and (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 CHARGE Demand | ... Rs.250/kVA/Month of Billing |
| ENERGY CHARGES | |
| For all kVAh consumed | ... 450 paise/kVAh |

IMPORTANT

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

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

FSA will be extra as applicable as notified by the Commission from time to time.

The above provisions shall not in any way affect the right of a person residing in the housing unit sold or leased by such Cooperative Group Housing Society, to demand supply of electricity directly from the distribution licensee of the area.

HT CATEGORY -VII - GREEN POWER

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 | Paise 670/kVAh |
|----------------|----------------|

FSA will be extra as applicable as notified by the Commission from time to time.

Notes:

- i. The Tariff shall be an optional Tariff
- ii. A consumer shall be entitled to Renewable Energy Certificates (RECs) as may be admissible

GENERAL CONDITIONS OF H.T. SUPPLY

The foregoing tariffs are subject to the following conditions:-

(1) A. 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 fulfilment 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 as per standards specified by APTRANSCO/DISCOMs including take off arrangements at substation;
- iii. In case of HT - I A and HT - II consumer categories for whom the voltage wise tariff is applicable, the Licensee shall levy the tariff as per the actual supply voltage.

B. 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 to 10000 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 one or more than one source, the RMD or CMD only with the Licensee, whichever is higher shall be the basis for levying voltage surcharge.

(2) 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.

(3) BILLING DEMAND

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

(4) 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.

(5) 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.

| 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.

(7) TEMPORARY SUPPLY AT HT

- i. 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-after as also in Part-C.

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.

- ii. 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) ADDITIONAL CHARGES FOR BELATED PAYMENT OF CHARGES

The Licensees shall charge the delayed payment surcharge (DPS) at the rate of 5 paise/Rs.100/day and the interest leviable on the outstanding amounts in case of grant of instalments at 18% per annum compounded annually and the two shall not be levied at the same time.

(9) CUSTOMER CHARGES

Every consumer of H.T. electricity shall in addition to demand and energy charges billed as per tariff applicable to them, pay customer charges as applicable.

(10) FUEL SURCHARGE ADJUSTMENT

Fuel Surcharge Adjustment (FSA) is applicable as per the Regulations notified by the Commission from time to time.

- (11) The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.
- (12) These rates are applicable in the areas of operation of 4 (four) Distribution Companies viz., Eastern Power Distribution Company of A.P. Limited, Central Power Distribution Company of A.P. Limited, Northern Power Distribution Company of A.P. Limited and Southern Power Distribution Company of A.P. Limited. (The jurisdiction of the DISCOMs extends to the RESCOs areas also for purpose of supply to HT Consumers).

PART 'B' : L.T.TARIFFS

| | |
|------------------|---|
| System of Supply | Low Tension A.C. 50 Cycles Three Phase Supply at 415 Volts Single Phase supply at 240 Volts |
|------------------|---|

The tariffs are applicable for supply of Electricity to L.T consumers with a connected load of 56 KW/75 HP and below including the LT-III (B) Industrial category.

L.T. CATEGORY-I-DOMESTIC

Applicability

Applicable for supply of energy for lights and fans and other domestic purposes in 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.

Rates

Consumers shall pay electricity charges as shown below:

| | | |
|-----------|---------------|--------------------|
| 0-50 | kWh per month | 145 paise per kWh |
| 51-100 | kWh /month | 280 paise per kWh |
| 101-200 | kWh /month | 305 paise per kWh |
| 201-300 | kWh /month | 475 paise per kWh |
| 301-500 | kWh /month | 600 paise per kWh |
| Above 500 | kWh/Month | 625/ paise per kWh |

Subject to monthly minimum charges of:

Single Phase:

Upto 500 W

Rs.25/ Month

Above 500 W

Rs.50/ Month

Three Phase

Rs.150/ Month

FSA will be extra as applicable as notified by the Commission from time to time.

Notes:

1. For loads less than 3 kW single phase supply only will be given.
2. If electricity supplied in domestic premises is required to be used for non-domestic and 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.
3. For common services like Water supply, common lights in corridors and supply for lifts in multistoried buildings, consumers shall pay electricity charges as follows:
 - i. At L.T.Category-I, if the plinth area occupied by the domestic consumers is 50% or more of the total plinth area.
 - ii. At L.T.Category-II, 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 (Domestic). 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, it will be charged at L.T. Category-II Non-Domestic /Commercial.
4. 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 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 slabwise per month for each dwelling unit shall be billed.
5. Where an individual consumer seeks to avail supply for Domestic purpose with a connected load of over 56KW/75HP, such consumers may be given supply under this category subject to the following conditions.
- a) The metering shall be provided by the DISCOMs on HT side of the distribution transformer.
 - b) Meter reading shall be done monthly and the energy recorded in the HT metering shall be billed at tariff rates under LT category I.

L.T. CATEGORY-II

(A) 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 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, railway stations, Timber Depots, Photo Studios, Printing Presses etc.

Educational Institutions run by individuals, Non-Government Organisations or Private Trusts and their student hostels are also classified under this category.

Consumers shall pay electricity charges as shown below:

| | |
|-------------------------------|-------------------------|
| First 50 kVAh/kWh per month | 385 Paise per kVAh /kWh |
| 51 - 100 kVAh /kWh per month | 620 Paise per kVAh /kWh |
| Above 100 kVAh /kWh per month | 650 Paise per kVAh /kWh |

Monthly Minimum Charges **Rs. 65** per month for **Single Phase**
Rs.200 per month for **Three Phase**

FSA will be extra as applicable as notified by the Commission from time to time.

Note:

The minimum load for extending connection for LT-II Non Domestic/Commercial shall be 250 Watts and development charges shall be pro-rated.

(B): Advertisement 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.

| Rates | |
|---------------------------|------------------------|
| For all kVAh/kWh consumed | 850 Paise per kVAh/kWh |

Notes:

1. For Loads less than 3 kW single phase supply only will be given.
2. For loads 10 kW and above, a LT tri-vector meter shall be provided and energy charges shall be computed on kVAh.
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 this category. The energy shall be measured on HT side of the Distribution Transformer feeding the Load. In cases where energy is 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.

4. Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.

L.T.CATEGORY-III (A) - INDUSTRIAL: NORMAL CATEGORY

The tariffs are applicable for supply of electricity to Low Tension Industrial consumers with a Contracted load of 75 HP/56 KW and below including incidental lighting load not exceeding 10% of the total Contracted Load. 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, railway stations and other similar premises, notwithstanding any manufacturing, processing or preserving goods for sale. This tariff will also apply to 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. This tariff is also applicable to 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. The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by GoAP also fall under this category. The news paper printing units also come under this category.

Further, this tariff is also applicable to:

- i. Poultry Farming Units other than those coming under LT Category - IV
- ii. Pisciculture and Prawn culture units.
- iii. Mushroom production units, Rabbit Farms other than those coming under LT Category - IV.
- iv. Floriculture in Green Houses.
- v. Sugar cane crushing.

| Rates: | | |
|--|--|--------------------------------------|
| Industrial - Normal | | |
| | Fixed Charges/ Demand Charges | Energy Charges Paise/unit |
| (i) Industry(Normal) | Rs.50.HP/Month of Connected Load | 413 |
| (ii) Industry (Optional) | Rs.150/kVA/month | 413 |
| (iii) Tariff for Pisciculture and Prawn culture units with Contracted Load below 10 HP | Rs.50.HP/Month of Connected Load | 125 |
| (iv) Sugar cane crushing | Rs.50.HP/Month of Connected Load | 75 |
| (v) Poultry Farms with more than 1000 birds. * | Rs.50.HP/Month of Connected Load | 413 |
| (vi)Mushroom production Farms, Rabbit Farms | Rs.50.HP/Month of Connected Load | 413 |
| (vii)Floriculture in Green-Houses | Rs.50.HP/Month of Connected Load | 413 |
| <p>* No manufacturing /production certification shall be required if the poultry farm has no in-house manufacturing activity such as feedmills. Poultry farms are exempted from general condition of 3 HP minimum load for releasing the three phase supply.</p> | | |
| <p>Note:</p> <p>1)LT-III-A (i) Industry Normal: The fixed charges shall be computed based on contracted Load or actual Recorded Demand whichever is higher. For the purpose of billing, kVA shall be equal to HP.</p> <p>IMPORTANT FOR LT III(A) INDUSTRIAL-OPTIONAL Demand Tariff Consumers Consumers with connected load between 50 and 75 HP can opt for a two part optional tariff.</p> <p>ii) The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher.</p> <p>iii) Energy charges will be billed on the basis of actual Energy consumption or 50 kWh per kVA of billing demand whichever is higher.</p> <p>FSA will be extra as applicable as notified by the Commission from time to time.</p> | | |

NOTE:

- i. The Licensee reserves the right to restrict usage of Electricity by the consumers for Industrial purpose during evening peak load hours i.e 17.00 hours to 21.00 hours in any area based on system constraints through notification by the Superintending Engineer of the area from time to time. Violation of this condition by the industrial consumer shall entail disconnection of power supply.
- ii. The Contracted load shall be the connected load required by the consumer and so specified in the agreement as per sanction accorded for the service. In the case of Industrial - optional two-part tariff the consumer can declare a contracted demand different from the contracted load but shall not be less than 25 kVA. If the consumer opts for a two part demand tariff the billing demand shall be 80% of the Contracted Demand or Recorded Demand whichever is higher. If the recorded demand exceeds the Contracted Demand such excess demand shall be billed at the demand charge prescribed under HT Category - I (11 kV supply).
- iii. If the actual connected load for lighting purpose exceeds the prescribed limit of 10%, the energy recorded prorata to the lighting load shall be billed at the LT Category-II highest slab rate. It is not necessary to have a separate service for lighting load in the premises. In case of poultry farms, the limit of 10% lighting load restriction is not applicable.

Sugar cane crushing operations will be allowed under existing agricultural connections with the specific permission from concerned DE (Operation).
- iv. A LT Trivector meter shall be provided for the consumers with connected load 20 HP to below 50 HP.
- v. For loads 50 HP to 75 HP the metering will be provided on HT side of the Distribution Transformer.
- vi. Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.

L.T. CATEGORY - III(B) - INDUSTRIAL

This tariff is applicable to Small Scale Industrial Units which have been licensed by the Industries Department as bona fide Small Scale Industries and given registration No. under SSI registration scheme with connected loads above 75 HP and upto 150 HP and who wish to avail supply at Low Tension subject to the Conditions mentioned here-under. The applicants should indicate their consent for these conditions, in the application for LT supply. The existing LT Category-III consumers who come under SSI category and who were sanctioned LT supply for connected loads above 75 HP and upto 125 HP subject to certain conditions prior to 15.7.1987, and who did not switch over to HT supply, may also come under this category duly complying with these conditions.

| Rates: | | |
|--------------------|-----------------------|-----------------------|
| | Demand Charges | Energy Charges |
| LT III(B) Industry | Rs. 150/kVA/month | 413 paise/kVAh |

IMPORTANT

The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher. Energy charges will be billed on the basis of actual Energy consumption or 50 kVAh per kVA of billing demand whichever is higher

FSA will be extra as applicable as notified by the Commission from time to time.

Conditions:

- i. The maximum Connected Load under this Category shall not exceed 150 HP including incidental lighting load of not more than 10% of the total connected load. The contracted load shall be as specified in the agreement as per sanction accorded for the service. The consumer shall declare his contracted demand, which shall not be less than 50 kVA and shall also be specified in the Agreement.
- ii. If in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his contracted demand with Licensees, 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 |

- iii. The consumer should erect his own Distribution Transformer and structure initially along with necessary switchgear. The transformer will be maintained by the consumer.
- iv. For new/additional loads the consumer has to comply with the procedures as per the terms and conditions of supply of the Licensee as applicable to HT Industrial consumers.
- v. The metering will be on HT side of the Distribution Transformer with a Tri-vector meter. The energy recorded in the meter will be billed at the energy charge mentioned above.
- vi. Customer charges shall be as applicable for HT- 11 kV consumers.
- vii. The conditions (i) & (iii) mentioned in the NOTE under LT Category-III(A) shall be applicable for LT III (B) Industrial Category also.

Seasonal Industries

Where a consumer avails supply of energy under L.T. Category - III (A)(i)(ii) and L.T. Category - III (B) for manufacture of sugar or ice or salt, decorticating, 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(A)(i)

| | |
|--|---------------------------|
| FIXED CHARGES | |
| on 30% of contracted load | Rs.50/HP/Month |
| ENERGY CHARGES | |
| For all kVAh/kWh of energy consumed | Rs.480 paise/ kVAh/kWh |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

LTIII (A) (ii) & LT III (B)

DEMAND CHARGES

Based on the Recorded Maximum Demand or
30% of the Contracted Demand Rs.150 per
kVA/Month.
whichever is higher

PLUS

ENERGY CHARGES

For all kVAh/kWh of energy consumed 480 Paise / kVAh

FSA will be extra as applicable as notified by the Commission from time to time.

This concession is subject to the following conditions:

- 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. For the current tariff year 2011-12, change can be made by any consumer by filing a declaration, duly intimating such change by 30/6/2011.
- 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 tariff year.
- ix. 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.

- x. Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.

L.T. CATEGORY-IV (A): COTTAGE INDUSTRIES AND DHOBIGHATS

Applicable for supply of energy to Dhobighats & bona fide (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 5 H.P. including incidental lighting in the premises.

| Rates | |
|---|--|
| For all kWh consumed | :180 Paise per kWh |
| Fixed Charges | :Rs.10/- per month per H.P. of contracted load subject to a minimum of Rs.30/- per month |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

L.T. CATEGORY-IV (B): POULTRY FARMING UNITS UPTO 1000 BIRDS:

Poultry farming units upto 1000 birds strength subject to certification from concerned DE(Operations) come under this category. If the number of birds in the poultry farm exceeds 1,000 birds, electricity supply to such poultry farms shall be classified under L.T. Category-III (A) or HT category I as the case may be according to the connected load/Contracted Demand.

| Rates | |
|---|---|
| For all kWh consumed | : 180 Paise per kWh |
| Fixed Charges | : Rs.10/- per month per H.P. of contracted load subject to a minimum of Rs.30/- per month |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

Notes

It is not necessary to have a separate service for lighting load in the premises.

L.T. CATEGORY-IV (C): AGROBASED ACTIVITIES

Applicability

This tariff is applicable to bonafied (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, Apiculture (honey making), Chaff-cutting and Dairy farming activities with connected load upto 5 HP (including incidental lighting load).

| Rates | |
|---|---|
| For all kWh consumed | : 180 Paise per kWh |
| Fixed Charges | : Rs.10/- per month per H.P. of contracted load subject to a minimum of Rs.30/- per month |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

Note: For LT IV(A) , LT IV(B) and LT IV(C)

Units which exceed 5 HP connected load shall be billed at tariff specified for LT-III(A) Industrial Category.

L.T. CATEGORY - V AGRICULTURAL

| Category | Purpose | Fixed charges | Energy Charge Paise/kWh |
|----------------------|--|-----------------|-------------------------|
| With DSM measures | Dry Land Farmers (Connections <= 3 Nos.) | 0 | 0 |
| | Wet Land Farmers (Holdings <= 2.5 Acres) | 0 | 0 |
| | Dry Land Farmers (Connections > 3 Nos.) | *Rs.315/HP/Year | 30 |
| | Wet Land Farmers (Holdings > 2.5 Acres) | *Rs.315/HP/Year | 30 |
| | Corporate Farmers & IT Assesses | | 150 |
| Without DSM measures | Dry Land Farmers (Connections <= 3 Nos.) | *Rs.315/HP/Year | 30 |
| | Wet Land Farmers (Holdings <= 2.5 Acres) | *Rs.315/HP/Year | 30 |
| | Dry Land Farmers (Connections > 3 Nos.) | *Rs.788/HP/Year | 75 |
| | Wet Land Farmers (Holdings > 2.5 Acres) | *Rs.788/HP/Year | 75 |
| | Corporate Farmers & IT Assesses | | 250 |

| Category | Purpose | Fixed charges | Energy Charge Paise/kWh |
|--|--|---------------|----------------------------|
| LT V(A)(i) | Salt Farming Units with connected load upto 15HP | ₹ | 100 |
| LT V(A)(ii) | Rural Horticulture Nurseries | | 100 |
| * Equivalent flat rate tariff ₹ -Units with connected load more than15 HP shall be billed under LT Category III(A) - Industrial Normal tariff. | | | |

LT CATEGORY - V(B) - AGRICULTURAL - TATKAL (Deleted)

Note:

1. Agricultural consumers are permitted to use 1 (15 W) or 3 lamps of 5 watts each near the main switch as pilot lamp/s.
2. Supply to the L.T. Agricultural services will be suitably regulated as notified by Licensee from time to time.
3. Customer charges of Rs.30/- per month per service in terms of Part 'C' of the tariff shall be payable by all Agricultural Consumers.
4. 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.
5. DSM measures include frictionless foot valve, capacitor of adequate rating, HDPE or RPVC piping at suction and/or delivery and ISI marked monobloc or submersible pump sets.
6. Farmers in dry land areas shall not be eligible for free supply if they grow Paddy in second crop.
7. All new connections shall be given only with DSM measures implemented and with meters.

L.T. CATEGORY-VI LOCAL BODIES, STREET LIGHTING AND PWS SCHEMES

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:**A). Street Lighting:**

| | |
|--|----------------------------|
| For all kWh consumed | Paise per kWh |
| Minor Panchayats | :187 |
| Major Panchayats | :250 |
| Nagarpalikas & Municipalities Gr.3 | :329 |
| Municipalities Gr. 1 & 2 | :359 |
| Municipalities Selection / Spl. Gr. | :388 |
| Corporations | :417 |
| Minimum charges | |
| Panchayats | : Rs.2 per point per month |
| Municipalities/Corporations | : Rs.6 per point per month |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

Notes (Street Lighting):

- i. The cost of fittings shall be borne or paid for by the consumers. 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 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:

| Sl.No | Fittings for | Fixed charges Per Month where the cost of fittings is borne by Licensee | Fixed charges per month where the cost of fittings is borne by the Local Body but maintenance by Licensee |
|-------|------------------------|---|---|
| (1) | (2) | (3) | (4) |
| | | (Rs.) | (Rs.) |
| 1. | Ordinary Filament Lamp | 2.00 | 1.00 |
| 2. | Fluorescent Lamp 40 | 7.00 | 4.00 |

| | | | |
|----|--------------------------------------|-------|-------|
| | W Single Fixture | | |
| 3 | Fluorescent Lamp 40 W Double Fixture | 8.00 | 4.00 |
| 4. | M.V. Lamps 80 W Fixture | 12.00 | 6.00 |
| 5. | M.V. Lamps 125 W Fixture | 15.00 | 8.00 |
| 6. | M.V. Lamps 250 W Fixture | 45.00 | 23.00 |
| 7. | M.V. Lamps 400 W Fixture | 50.00 | 25.00 |

- i. 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 Rs. 2 per replacement.

However, in Rural areas, such replacement of bulbs supplied by the Local Body will be made by the Licensee without collecting labour charges. For this purpose the area coming under Gram Panchayat shall constitute 'Rural Area'.

- ii. 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.

B). PWS Schemes:

| | Energy charges | Fixed charges |
|-----------------------------------|-------------------------|---|
| Minor / Major Panchayats | | |
| Up to 2500 kVAh/kWh /year | : 70 paise per kVAh/kWh | Rs.10/HP/month of contracted load subject to a minimum of Rs.50/- |
| Above 2500 kVAh/kWh | :100 paise per kVAh/kWh | |
| All Nagarpalikas & Municipalities | | |
| | Energy charges | Fixed charges |

| | | |
|--|--------------------------|--|
| Upto 1000 kVAh/kWh | : 375 Paise per kVAh/kWh | Rs.20/HP/month of contracted load subject to a minimum of Rs.100/- |
| Balance kVAh/kWh | : 405 Paise/ kVAh/kWh | |
| Municipal Corporations: | | |
| Up to 1000 kWh | : 405 Paise per kVAh/kWh | Rs.30/HP/month of contracted load subject to a minimum of Rs.100/- |
| Balance kWh | : 460Paise/ kVAh/kWh | |
| <p>FSA will be extra as applicable as notified by the Commission from time to time. Note: Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.</p> | | |

L.T. CATEGORY-VII

(A)GENERAL PURPOSE

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, and Educational Institutions run by charitable Institutions (Public charitable trusts and societies registered under the Societies Registration Act running educational and medical institutions on a no profit basis), recognised service institutions and old age homes run by recognized service institutions.

| | |
|--|---|
| Rates | |
| For all the kVAh/kWh consumed | : 400 paise per kVAh/kWh |
| Fixed Charge | : Rs.20/kW per Month. |
| Minimum charges | : Rs.50 per month for single phase supply |
| | : Rs.150 per month for three phase supply |
| <p>FSA will be extra as applicable as notified by the Commission from time to time. Note: Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.</p> | |

VII(B):RELIGIOUS PLACES

Applicable for supply of energy to places of worship such as Churches, Temples, Mosques, Gurudwaras and Crematoriums with connected load up

to 1 kW. If the connected load is more than 1 kW, the consumers will be billed under LT Category VII(A): General Tariff.

| Rates | |
|---|-----------------------|
| For first 200 kWh | : 200 paise per kWh |
| Fixed Charge | : Rs.10/kW per Month. |
| Balance kWh | : 400 paise per kWh |
| Minimum charges shall not be levied on LT-VII(B):Religious Places consumers. | |
| FSA will be extra as applicable as notified by the Commission from time to time. | |

Note:

1. Licensee may introduce monthly billing for all consumers instead of bimonthly (once in two months).
2. For loads less than 3 KW, single phase supply only will be given.

L.T. CATEGORY-VIII - L.T. TEMPORARY SUPPLY

1. For temporary supply of energy to all categories other than Irrigation and Agriculture:

| Rates | |
|---|--|
| For all the kVAh/kWh consumed | : 682 paise per kVAh/kWh |
| Minimum charges | :Rs.125 per kW or part thereof of contracted load for first 30 days or part thereof and Rs.75 per kW or part thereof of contracted load for every subsequent period of 15 days or part thereof |
| FSA will be extra as applicable as notified by the Commission from time to time. | |
| <p>Note: Energy charges shall be billed on kVAh wherever LT Trivector meters are provided by Licensees/Consumers. In the absence of LT Trivector Meters, energy charges shall be billed on kWh basis.</p> | |

Temporary supply for Agriculture Purpose:

| Rates | |
|--------------------------|---|
| For all the kWh consumed | : 230 paise per kWh |
| Minimum charges | :Rs.100 per HP of contracted load for the first 30 days or part thereof and Rs.50 per HP of contracted load for every subsequent period of 15 days or part thereof. |

Conditions:

(i) Estimated cost of works and estimated energy charges.

These charges shall be paid in advance by the consumer in accordance with the procedure prescribed in clause VI of part C along with any other charges payable as specified therein.

(ii) 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 procedure prescribed in clause VI of part C.

General conditions of L.T. Tariff

The foregoing L.T. Tariffs are subject to the following conditions.

1. Classification of Premises

The Licensee shall have the right to classify or re-classify the supply of energy to any premises under an appropriate category of L.T. Tariff.

2. The connected load of the consumer shall not exceed his contracted load except in case of LT category III(A) optional and III(B) and if the connected load of the consumer is found to be in excess of his contracted load, the provisions of General Terms and Conditions of supply shall be applied.

3. Additional Charges for belated payment of Bills:

- 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) If payment is made after due date, the consumers are liable to pay belated payment charges on the bill amount at the rate of five(5) Paise per One hundred rupees per day of delay calculated from due date mentioned in the bill up to the date of payment.
- c) If the C.C. bills amount is not paid within 15 days from the due date the power supply is liable for disconnection.
- d) 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.

4. Fuel Surcharge Adjustment (FSA) is applicable as per the Regulations notified by the Commission from time to time.
5. The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.

PART - C

I. SERVICE CONNECTION CHARGES

- (1) In respect of the cases involving extension of distribution mains, the extension portion of the scheme will be executed by the Licensee adopting the standards prescribed by the Commission from time to time on payment of service line charges.
- (2) The service connection portion from the overhead mains terminated outside the premises of the consumer shall be executed by the concerned DISCOMs and as per the standards prescribed by the licensee from time to time, the cost of the material is borne by consumer. However, the meter and cutout shall be provided by the licensee.
- (3) Service connection wires for L.T. Category- V Irrigation and Agricultural purposes shall be laid collecting an amount of Rs.25/- per H.P. of contracted load towards service connection charges.

II. RECONNECTIONS

| | |
|---------------------------------|---------|
| (a)Low Tension Services. | |
| Overhead Services | Rs. 50 |
| U.G. Services | Rs.100 |
| (b)High Tension Services | |
| 11 KV | Rs.300 |
| 33 KV | Rs.500 |
| 132/220 KV | Rs.1000 |

III. TESTING

| (a)Installations | LT | HT |
|--|-----------|-----------|
| 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 | Rs.20 | Rs.200 |

| | | |
|--|--------------------|-----------|
| owing to any fault in the installation or to non-compliance of the conditions of supply. | | |
| (b)Meters | LT | HT |
| A.C. Single Phase Energy meter | Rs. 10 | |
| A.C. Three Phase Energy meter | Rs .30 | |
| iii) Demand or special type meter | Rs.150 | Rs.500 |
| (c)Transformer Oils | | |
| First sample of oil | Rs.150/-per sample | |
| Additional sample of oil of the same equipment received at the same time | Rs.100/-per sample | |

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 | Rs.3/- |
| (b)Charges for attendance of Fuseman/Wireman at the consumer's premises during any function or temporary illumination provided a Fuseman/Wireman can be spared for such work | Rs.100/- for each day or part thereof. |
| (c) Charges for Infructuous visit of Licensee employees to the consumer's premises . | Rs.25/- for each visit when there is no defect in Licensee's equipment. |

V. MISCELLANEOUS CHARGES

| | |
|--|---------|
| (a)Application Registration Fees | |
| (i)For LT Agricultural & Domestic | Rs. 25 |
| (ii)For all other LT Categories | Rs. 50 |
| (iii)For all HT Categories | Rs. 100 |
| (b)Revision of estimates | Rs. 10 |
| (c)Fee for rerating of consumer's installation at the request of the consumer. | Rs. 20 |
| <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> | |
| (d)Resealing of | |
| (i)L.T. Meter Cut outs in the consumer's premises | Rs. 5 |
| (ii)M.D. Indicator meters and other apparatus in the consumer's premises For all other LT Categories | Rs.100 |
| <i>The aforesaid charges do not include the additional charges payable by the consumer</i> | |

| | | | |
|---|--|-----------------|--|
| <i>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) | LT | HT | |
| | Rs.25 | Rs.100 | |
| (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 | Rs/month | |
| | LT-I Domestic | | |
| | 0 - 50 | 25.00 | |
| | 51 - 100 | 30.00 | |
| | 101 - 200 | 35.00 | |
| | 201 - 300 | 40.00 | |
| | 300-500 | 45.00 | |
| | >500 | 45.00 | |
| | LT-II Non-domestic/Commercial | | |
| | LT-II(A): Non-Domestic/Commercial | | |
| | 0-50 | 30.00 | |
| | 51-100 | 35.00 | |
| | >100 | 40.00 | |
| | LT-II(B) Advertising Hoardings | 45.00 | |
| | LT-III(B) Industrial Optional | 1125.00 | |
| | LT-VII - General Purpose | 40.00 | |
| | LT-VIII-Temporary Supply | 40.00 | |
| | All other LT categories | 30.00 | |
| | HT consumer categories upto 66 kV | 1125.00 | |
| | HT consumer categories above 66 kV | 2250.00 | |
| (h)Urgency charges for temporary supply at short notice | Rs.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 Agricultural & Domestic | Rs. 50 | | |
| For all other LT Categories | Rs.150 | | |

VI. 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) above is also to 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.

VII. MISCELLANEOUS WORKS :

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 labor and material plus 25% on cost of labor and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

PART `D`

POWER FACTOR APPARATUS AND CAPACITOR SURCHARGE

- (1) Every HT Agricultural Consumer and every LT consumers, 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 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.
- (4) HT consumers and 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.

(5) However for the purpose of kVAh billing leading kVARh shall be blocked.

223. The tariff/rates determined above is contingent on payment of subsidy as agreed by the GoAP. The Licensees shall keep the Commission informed periodically about the payment of subsidy by the Government.

Administration of Subsidy

224. The Licensees get the subsidy commensurate to the extent of energy sales volumes approved in the Order and not to cover the additional power purchases made by them in excess of sales volumes approved in this Order at the instance or with the approval of GoAP, or otherwise.

225. The subsidy amounts as indicated in the Order must be paid by GoAP to Licensees in monthly instalments, in advance. The Commission directs that

The Licensees shall submit to the Commission by 15th of every month a status report on payment of subsidy amounts by the GoAP.

226. These rates are 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-operatives viz., Anakapally, Chepurupally, Siricilla, Kuppam for FY2011-12 w.e.f 01-04-2011 to 31-03-2012.

Abstract of Retail Supply Tariff/Rates for FY2011-12

227. The abstract of retail supply tariff/rates for the period from 1st April 2011 to 31st March 2012 as determined above , is given in Table 54.

Table 54: Abstract of Tariff /Rates for FY2011-12

| CONSUMER CATEGORY | | Rates for 2011-12 | | | |
|-------------------|---|---------------------------------|----------------------|------------------------|-------------------------|
| | | UNIT for levy of Energy Charges | HP Charge (Rs/Month) | kVA Charge (Rs/ Month) | Energy Charge (Rs/unit) |
| LT I | DOMESTIC | | | | |
| | Slab 1 (0-50) | kWh | 0.00 | 0.00 | 1.45 |
| | Slab 2 (51-100) | kWh | 0.00 | 0.00 | 2.80 |
| | Slab 3 (101-200) | kWh | 0.00 | 0.00 | 3.05 |
| | Slab 4 (201-300) | kWh | 0.00 | 0.00 | 4.75 |
| | Slab 5 (301-500) | kWh | 0.00 | 0.00 | 6.00 |
| | Slab 6 (>500) | kWh | 0.00 | 0.00 | 6.25 |
| LT II | NON-DOMESTIC/COMMERCIAL # | | | | |
| LT II(A) | GENERAL | | | | |
| | Slab 1 (0-50) | kWh/kVAh | 0.00 | 0.00 | 3.85 |
| | Slab 2 (51-100) | kWh/kVAh | 0.00 | 0.00 | 6.20 |
| | Slab 3 (>100) | kWh/kVAh | 0.00 | 0.00 | 6.50 |
| LT II(B) | ADVERTISING HOARDINGS | kWh/kVAh | 0.00 | 0.00 | 8.50 |
| LT III | INDUSTRY # | | | | |
| LT III(A) | INDUSTRIAL NORAML | | | | |
| LT III(A)(i) | Industrial Normal | kWh/kVAh | 50.00 | 0.00 | 4.13 |
| | Off Seasonal Tariff for Seasonal Loads | kWh/kVAh | 50.00 | 0.00 | 4.80 |
| | Poultry Farms with more than 1000 birds | kWh/kVAh | 50.00 | 0.00 | 4.13 |
| | Mushroom production Farms, Rabbit Farms | kWh/kVAh | 50.00 | 0.00 | 4.13 |
| | Floriculture in Green-Houses | kWh/kVAh | 50.00 | 0.00 | 4.13 |

| CONSUMER CATEGORY | | Rates for 2011-12 | | | |
|-------------------|--|---------------------------------|----------------------|-----------------------|-------------------------|
| | | UNIT for levy of Energy Charges | HP Charge (Rs/Month) | kVA Charge (Rs/Month) | Energy Charge (Rs/unit) |
| | Pisciculture/Prawn culture | kWh/kVAh | 50.00 | 0.00 | 1.25 |
| | Sugarcane crushing | kWh | 50.00 | 0.00 | 0.75 |
| LT III(A)(ii) | Industrial Optional | kVAh | 0.00 | 150.00 | 4.13 |
| | Off Seasonal Tariff for Seasonal Loads | kVAh | 0.00 | 150.00 | 4.80 |
| LT III(B) | INDUSTRIAL OPTIONAL | | | | |
| | SSI Units | kVAh | 0.00 | 150.00 | 4.13 |
| | Off Seasonal Tariff for Seasonal Loads | kVAh | 0.00 | 150.00 | 4.80 |
| LT IV | COTTAGE INDUSTRIES & OTHERS | | | | |
| LT IV(A) | COTTAGE INDUSTRIES & DHOBIGHATS | kWh | 10.00 | 0.00 | 1.80 |
| LT IV(B) | POULTRY FARMS UP TO 1000 BIRDS | kWh | 10.00 | 0.00 | 1.80 |
| LT IV(C) | AGRO BASED ACTIVITIES | kWh | 10.00 | 0.00 | 1.80 |
| LT V(A) | IRRIGATION AND ARICULTURE | | | | |
| LT V(A)(i) | With DSM Measures | | | | |
| | Corporate Farmers & IT Assesses | kWh | 0.00 | 0.00 | 1.50 |
| | Wet Land Farmers (Holdings >2.5 acre) | kWh | *Rs. 315/HP Year | 0.00 | 0.30 |
| | Dry Land Farmers (Connections > 3 nos.) | kWh | *Rs. 315 /HP Year | 0.00 | 0.30 |
| | Wet Land Farmers (Holdings <= 2.5 acre) | kWh | 0.00 | 0.00 | 0.00 |
| | Dry Land Farmers (Connections <= 3 nos.) | kWh | 0.00 | 0.00 | 0.00 |
| | Salt Farming units with connected load up to 15HP \$ | kWh | 0.00 | 0.00 | 1.00 |
| | Rural Horticulture Nurseries | kWh | 0.00 | 0.00 | 1.00 |
| LT V(A)(ii) | Without DSM Measures | | | | |
| | Corporate Farmers & IT Assesses | kWh | 0.00 | 0.00 | 2.50 |
| | Wet Land Farmers (Holdings >2.5 acre) | kWh | *Rs. 788 /HP Year | 0.00 | 0.75 |
| | Dry Land Farmers | kWh | *Rs. 788 /HP Year | 0.00 | 0.75 |

| CONSUMER CATEGORY | | Rates for 2011-12 | | | |
|-------------------|--|---------------------------------|----------------------|------------------------|-------------------------|
| | | UNIT for levy of Energy Charges | HP Charge (Rs/Month) | kVA Charge (Rs/ Month) | Energy Charge (Rs/unit) |
| | (Connections > 3 nos.) | | | | |
| | Wet Land Farmers (Holdings <= 2.5 acre) | kWh | *Rs. 315 /HP Year | 0.00 | 0.30 |
| | Dry Land Farmers (Connections <= 3 nos.) | kWh | *Rs. 315 /HP Year | 0.00 | 0.30 |
| | LOCAL BODIES, STREET LIGHTING AND PWS SCHEMES | | | | |
| LT VI(A) | Street Lighting | | | | |
| | Minor Panchayats | kWh | 0.00 | 0.00 | 1.87 |
| | Major Panchayats | kWh | 0.00 | 0.00 | 2.50 |
| | Nagarpalikas & Municipalities(Gr-3) | kWh | 0.00 | 0.00 | 3.29 |
| | Municipalities (Gr 1&2) | kWh | 0.00 | 0.00 | 3.59 |
| | Municipalities Selection/ Special Grade | kWh | 0.00 | 0.00 | 3.88 |
| | Corporations | kWh | 0.00 | 0.00 | 4.17 |
| LT VI(B) | PWS Schemes # | | | | |
| | Minor/ Major Panchayats | | | | |
| | Up to 2500 units/Yr | kWh/kVAh | 10.00 | 0.00 | 0.70 |
| | Above 2500 units/Yr | kWh/kVAh | | 0.00 | 1.00 |
| | All Nagarpalikas & Municipalities | | | | |
| | Up to 1000 units | kWh/kVAh | 20.00 | 0.00 | 3.75 |
| | Balance units | kWh/kVAh | | 0.00 | 4.05 |
| | Municipal Corporations | | | | |
| | Up to 1000 units | kWh/kVAh | 30.00 | 0.00 | 4.05 |
| | Balance units | kWh/kVAh | | 0.00 | 4.60 |
| LT VII(A) | GENERAL PURPOSE # | kWh/kVAh | 20.00 | 0.00 | 4.00 |
| LT VII(B) | Religious Places with Connected Load Up to 1 kW \$\$ | | | | |
| | Up to 200 units | kWh | 10.00 | 0.00 | 2.00 |
| | Balance units | kWh | | 0.00 | 4.00 |
| LT VIII | TEMPORARY SUPPLY # | | | | |

| CONSUMER CATEGORY | | Rates for 2011-12 | | | |
|-------------------|--|---------------------------------|----------------------|-----------------------|-------------------------|
| | | UNIT for levy of Energy Charges | HP Charge (Rs/Month) | kVA Charge (Rs/Month) | Energy Charge (Rs/unit) |
| | Temporary Supply to Agriculture | kWh/kVAh | 0.00 | 0.00 | 2.30 |
| | Temporary Supply to other than Agriculture | kWh/kVAh | 0.00 | 0.00 | 6.82 |
| HT I(A) | INDUSTRY GENERAL | | | | |
| | 132 KV and above | kVAh | 0.00 | 250.00 | 2.97 |
| | 33KV | kVAh | 0.00 | 250.00 | 3.25 |
| | 11 KV | kVAh | 0.00 | 250.00 | 3.52 |
| | Lights and Fans | | | | |
| | 132 KV and above | kVAh | 0.00 | 0.00 | 4.67 |
| | 33KV | kVAh | 0.00 | 0.00 | 4.70 |
| | 11 KV | kVAh | 0.00 | 0.00 | 4.72 |
| | Colony | | | | |
| | 132 KV and above | kVAh | 0.00 | 0.00 | 4.50 |
| | 33KV | kVAh | 0.00 | 0.00 | 4.50 |
| | 11 KV | kVAh | 0.00 | 0.00 | 4.50 |
| | Seasonal Industries | | | | |
| | 132 KV and above | kVAh | 0.00 | 250.00 | 4.10 |
| | 33KV | kVAh | 0.00 | 250.00 | 4.30 |
| | 11 KV | kVAh | 0.00 | 250.00 | 4.80 |
| | TIME OF DAY TARIFF (06PM to 10PM) | kVAh | - | - | 1.00 |
| HT I(B) | FERRO ALLOYS | kVAh | 0.00 | 0.00 | 2.65 |
| HT II | NON INDUSTRIAL | | | | |
| | 132 KV and above | kVAh | 0.00 | 250.00 | 4.10 |
| | 33KV | kVAh | 0.00 | 250.00 | 4.30 |
| | 11 KV | kVAh | 0.00 | 250.00 | 4.80 |
| HT IV | IRRIGATION AND AGRICULTURE | | | | |
| HT IV-A | Government Lift Irrigation Schemes | kVAh | 0.00 | 0.00 | 2.60 |
| HT IV-B | Agricultural | kVAh | 0.00 | 0.00 | 0.00 |
| HT IV-C | Composite Public Water Supply Schemes | kVAh | 0.00 | 0.00 | 1.00 |
| HT V | RAILWAY TRACTION | kVAh | 0.00 | 0.00 | 4.45 |
| HT VI | TOWNSHIPS AND RESIDENTIAL COLONIES | kVAh | 0.00 | 250.00 | 4.50 |

This Order is signed on 30-03-2011


C.R. SEKHAR REDDY
MEMBER


R. RADHA KISHEN
MEMBER


A. RAGHOTHAM RAO
CHAIRMAN

ANNEXURE-A EARLIER DIRECTIVES

1.Safety improvement and day to day maintenance activities through attention to O&M exigencies in Rural Areas

The Licensees shall examine the feasibility of creating CBD teams in Rural Areas on similar lines to the existing scheme of CBDs in Metro/Town Areas.

2.Replacement of failed Distribution Transformers (DTRs)

a) The Licensees shall instruct their respective officials to lodge complaints with the police in the event of theft of DTR.

b) The complaint lodged by the farmers with the service team of the DISCOMS should be enough for them to start the process of replacement of DTR and take action. The licensee shall take steps to restore the supply by arranging another DTR in place of stolen DTR.

c)The Licensees shall display the details of replacement of failed DTRs (rating, place of failure and time taken for replacement) on daily basis at the Divisional, Sub-Divisional and Section offices .

3.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 15th 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 |
|----|------------------------|---------------------------------|-------|-----------------|-------------------|---|
| | | | | | | |

4.Energy Conservation

(a) To enhance the publicity campaign and spread the message of 'Energy Conservation' across all the categories of consumers, taking the help of NGOs wherever possible. A detailed quarterly report on various activities taken up by the Licensees in this regard shall be submitted by 15th of the month succeeding each quarter.

(b) To examine Incentivization of usage of solar heaters by all LT category consumers by giving a rebate/discount in the monthly bill to increase awareness and also to increase usage of such alternate sources of energy. The Licensees are to file an

approach paper outlining modalities and implementation scheme by November 30, 2011. Only EPDCL had submitted a proposal in their filings. The other three Licensees should also give their views and proposals by 31/10/2011 and incorporate the same in the filings for FY 2012-13.

5.Filing of information on Maintenance /utilisation of Contingency Reserves

The Licensees shall file all the above mentioned details regarding the Contingency reserves account by December 31, 2011.

6.Furnishing of Sales Information in Audited Accounts

The Licensees shall annex the details of sales and revenue for major consumer categories to the audited accounts beginning with FY2011-12.

7.Assets, Depreciation and Interest Details

a) Licensees should file details of all the assets forming part of gross block along with their corresponding depreciation amount accumulated along with the reasons for not withdrawing obsolete assets from gross block. The said information is required from 01-04-2006 onwards till date. The above information may be furnished to the Commission on/before October 31, 2011.

b) The Licensees shall file the details of interest paid on loans taken for Capital Investments and on Working capital loans from FY2006-07 to FY2010-11 on/before October 31, 2011.

8.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 .

ANNEXURE-B

FRESH DIRECTIVES FOR FY 2011-12

1. Monthly Report on Losses

Submit voltage-wise month-wise percentage loss computations at the end of every month during FY 2011-12, taking actual load flow in the Transmission and Distribution network in the format already prescribed by the Commission, so also Agricultural Consumption and losses at each voltage level as a percentage of total input to the AP Grid for further examination of the issue by the Commission in the future years. (para 32)

2. Agricultural Consumption Estimate

The Licensees shall immediately report the progress on implementation of new methodology and also make a presentation to the Commission on or before May 31, 2011. The progress report on implementation of new methodology shall be put on their respective Licensee websites and these reports should be periodically updated. Till the time the new methodology is implemented, the existing method of estimating consumption based on DTR meter readings shall be continued. (para 35)

3. Supply to Industrial Units Located in RESCOS' Supply Areas

The Licensees shall discuss with RESCOs and come up with appropriate proposals before the Commission by 31st July , 2011. (para 38)

4. Additional Power Purchase Volumes

the DISCOMS shall not buy any power beyond the volumes approved in tariff orders and based on the consumption, they shall approach the commission for further approvals of quantity as well as rate of power to be purchased. (para 56)

5. Monthly Consumption and Daily Grid Reports

The Commission directs the DISCOMS to submit monthly statements on station wise deviations of actual quantum purchased and Fixed & Variable Costs thereof compared to the respective values taken in the Tariff Order. Such reports must be submitted within 30 days of completion of each month. They are also directed to submit to the Commission the soft copies of Daily Grid Reports for each month as the supporting information for such deviations. (para 74)

6. Amounts Due from Government of Andhra Pradesh

The DISCOMS to request the Govt of Andhra Pradesh to expeditiously remit the amounts due besides requesting the GoAP to evolve and intimate a time frame within which the Govt intends to bridge these deficits/revenue gaps. The DISCOMS should submit a comprehensive report by 30/09/2011 after due correspondence with the Government on above lines. (para 80)

7. Recovery of excess LF incentive paid to HT consumers

A comprehensive action taken report so far with details of number of such consumers, number of cases where notices were issued, number of cases where writ petitions have

been filed, number of cases and extent of recovery made, may be filed by 31/05/2011 for Commission's perusal and review. (para 81)

8. Recovery of demand charges from APGPCL

A comprehensive action taken report may be filed for Commission's perusal and review by 31/05/2011 with year wise and month wise details of such charges together with the calculation sheets to verify and quantify the excess amounts paid may be filed together with the details of extent of recovery made. (para 82)

9. Levy of Delayed Payment Surcharge and Interest

The Licensees shall not simultaneously levy both delayed payment surcharge & interest on payables. (para 127)

10. Street Lighting in APIIC Industrial Municipalities

The Licensees shall examine the usage pattern, the extent of public roads and the financial impact and submit a report by 31/10/2011. (para 128)

11. Ferro Alloy Units: R&C Measures and Deemed Energy Consumption

The Licensees shall exclude the period of R&C measures (power cuts) in calculating the deemed energy consumption. (para 135)

12. Pre Paid Meters for Government Departments

The dues from Government departments are quite high and slower recovery would affect the cash flow and day to day management of affairs for the DISCOMS. This suggestion may be examined and discussed by DISCOMS with such consumers. A report on this subject shall be submitted by 31/07/2011. (para 137)

13. Consumer Bills on Internet

to study if it is feasible to place the bills on internet for customers to verify and know. This should be encouraged as the DISCOMS should move towards facilitating on line payment. A feasibility report on placing of bills on the internet together with facility to pay on line for atleast HT and LT_III consumers may be sent to Commission by 30/06/2011 so that the scheme can be implemented from 1/8/2011. (para 142)

14. Share of capacity in IPP expansion projects

to examine in terms of the existing PPAs, the National tariff policy and the provisions of the E.Act 2003, the legal feasibility of acquiring a share of power in such expansion projects and file a detailed report to the Commission by 30/04/2011 in case of each of the IPPs that are setting up expansion projects. (para 148)

15. HVDS and Other Issues

SPDCL is directed to contact the objector, Sri K Shankar Reddy, Chittoor to get the details, examine the matter and send a report by 31/06/2011. (para 156)

16. Power Supply to Rural Areas

(a) To complete all the works pertaining to the pilot projects by 31.07.2011 and submit a compliance report, along with the results observed by 15.08.2011. (para 165)

(b) To seriously examine the issue of rural power supply and come up with a better solution than segregation of feeders, which, at the current pace is likely to take more than 20 years for completion. The DISCOMS should examine the feasibility of alternative mechanisms to obviate the need for separate agricultural feeders in the context of the request of the consumers not to restrict power supply to rural households to the 7 hrs time restriction of agriculture sector. (para 165)

(c) The DISCOMS may examine the issues connected with power supply to rural areas and come up with, both cost & time frame wise practicable solutions by 30-10-2011. (para 165)

17. Report on Agricultural Pump Sets

The details of the study conducted on usage of energy efficient agricultural pump sets, copies of the report of Bureau of Energy Efficiency and recommendations and the steps proposed to be taken, should be submitted to the Commission by the DISCOMS by 31/05/2011 for examination of the same. (para 169)

18. Awareness Programme to Forum Members and Functioning of Call Centres

The DISCOMs should take steps to build greater awareness in employees deputed to Forums to be balanced and unbiased in the discharge of their duties. DISCOMS to take proper action and ensure proper functioning of the call centres in attending to the calls of the consumers to get their problems pertaining to power supply resolved without delays. (para 176)

19. Lok Adalats for Settlement of Compensation Claims

The suggestion on functioning of Lok Adalats may be examined and the DISCOMs and the CGRF may obtain the rule/procedure followed in such Lok Adalat on settlement of compensation claims, examine and report their observations to Commission by 30/06/2011. (para 177)

20. AB Switches on HVDS Transformers

The details of progress made on providing AB switches to the HVDS Transformers shall be submitted to the Commission. An interim report shall be submitted by 31/10/2011 and final report by 31/12/2011. (para 180)

21. DTR Location for Residential and Commercial Complexes

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. (para 187)

22. Report on Subsidy Payment by Government of Andhra Pradesh

The Licensees shall submit to the Commission by 15th of every month a status report on payment of subsidy amounts by the GoAP. (para 224)

ANNEXURE-C
LIST OF REGISTERED OBJECTORS

| S No | Name and Address of the Objector | Objection Related To |
|------|--|----------------------|
| 1 | Sri Jonnala Narsimhulu Nayee, State Secretary, Ex-Director, A.P. Nayee Brahmin Seva Sangham, Chikkadapally - Hyderabad-500020 | All DISCOMs |
| 2 | Sri M.Venugopala Rao, Flat : 203, H.No.7-1-408 to 413, Balkampet Road, Ameerpet, Hyderabad - 500 016 | All DISCOMs |
| 3 | Mr. M.R.Prasad, General Secretary A.P.Ferro Alloys Producers Association, 3rd floor, Progressive towers, Khairathabad, Hyderabad - 500 004 | All DISCOMs |
| 4 | Mr. M.V.Rajeshwara Rao, Secretary General, FAPCCI, FAPCCI Road, Red Hills, Hyderabad - 500004 | All DISCOMs |
| 5 | Sri Changanti Venkateswarlu, Chairman, Raithu Samakhya, Flat No.302, 33-10-14, Sitarampuram, Vijayawada - 520 002 | All DISCOMs |
| 6 | Mr. K.V.V.Satyanarayana, Chief Electrical Distribution Engineer, South Central Railway, RAIL NILAYAM, SECUNDERABAD | All DISCOMs |
| 7 | Sri B.V.Raghavulu, S/o B.Venkatasubbaiah, Secretary, A.P.State Committee, CPI(Marxist), M.B.Bhavan, #1-1-60/2, Musheerabad, Hyderabad - 500 020 | All DISCOMs |
| 8 | Dr M.Thimma Reddy, Convenor, Peoples' Monitoring Group on Electricity Regulation, C/o Centre for Environment Concerns, #3-4-142/6, Barkatpura, Hyderabad - 27 | All DISCOMs |
| 9 | Er.A.Punna Rao, Convenor, Praja Energy Audit Cell, C/o The Institute of Engineers(India), Khairathabad, Hyderabad - 500 004 | All DISCOMs |
| 10 | Mr.Pavan Kumar, Energy Controller, M/s Indus Towers Ltd., 3rd floor, USHA 36, Jubilee Town, Road No.36, Jubilee Hills, Hyderabad - 500 033 | All DISCOMs |
| 11 | Sri Cherukuri Venugopala Rao, Federation of Farmers Associations A.P., H.No.1-191, Railway Wagon Work Shop Road, Guntupalli - Krishna Dt -521 241 | All DISCOMs |
| 12 | Sri Gade Diwakar, General Secretary, All India Kisan Mazdoor Sabha (AIKMS), C/o Marx Bhavan, H No 1-9-295/11/4, 7th Lane, Vidyanagar, Hyderabad-500044 | All DISCOMs |
| 13 | Sri Kommidi Narasimha Reddy, Convenor, Praja Chaitanya Vedika, AB-2, Singapore Township, Pocharam, Ranga Reddy dist | All DISCOMs |
| 14 | Sri P.Chiranjeevi, H No: 1-1-336/95, Vivek Nagar, Chikkadapally, Hyderabad | All DISCOMs |
| 15 | Sri B.N.Prabhakar, President SWAPNAM, H No: 16-11-405/10, SBI Officers Colony, Moosarambagh, Hyderabad | All DISCOMs |

| S No | Name and Address of the Objector | Objection Related To |
|------|--|----------------------|
| 16 | Sri Yellapu Suryanarayana S/o Veeraswamy, State General Secretary-Bharateeya Kisan Sangh, Chinnimpeta (V); Siripuram (PO); Pattipadu (SO) East Godavari Dist; PIN-533432 (AP) | All DISCOMs |
| 17 | Sri V Vasudeva Rao, General Secretary Forum For Integrated Development (FFID), H No: 3-4-1009/1 Barkatpura, Hyderabad-500027 | All DISCOMs |
| 18 | Sri Saarampally Mallareddy, H No: 1-1-60/2, RTC X-Roads, Musheerabad, Hyderabad-500020 | All DISCOMs |
| 19 | Swamy Jaganmayananda, Husnabad village, Kodangal Mandal, Mahabubnagar dist., A.P. | APCPDCL |
| 20 | M/s Trion Properties Pvt. Ltd., Plot No.16, Sy.No.64(Part), APIIC Layout, 1st floor, Titus Towers, Bldg No.10, Madhapur, Hyderabad - 500081 | APCPDCL |
| 21 | M/s K.Raheja IT park(Hyd) Pvt. Ltd., Mind space, Cyberabad, Sy.No.64(Part), APIIC Layout, 1st floor, Titus Towers, Bldg No.10, Madhapur, Hyderabad - 81 | APCPDCL |
| 22 | Sri T.V.Ratna Prasad, Secretary, The Kurnool district chamber of commerce & Industry, T.G.Venkatesh Chamber Bhavan, 16/11A, Munsif Court Road, Kurnool | APCPDCL |
| 23 | Sri Nukala Sathyanarayana Reddy, C/o Kothipaireddy Bhavan, Behind Z.P.Office, Ramagiri, Nalgonda | APCPDCL |
| 24 | Sri O.Raghava Reddy & Sri D.Ramu, Bharateeya Kisan Sangh National Vice- President, Classic Towers, 6 No. Bus Stop, H No: 2-3-51, F.No.203, Bagh Amber Pet, Hyderabad | APCPDCL |
| 25 | M/s GMR Hyderabad International Airport Ltd., No.6-3-866/1/G1, Greenlands, Begumpet, Hyderabad - 500016 | APCPDCL |
| 26 | Mr. R.K.Agarwal, Hon. Chairman, A.P.Spining Mills Association, D.No.3-6-168/4, Hyderguda, Hyderabad | APCPDCL |
| 27 | Sri Y.Santhosh, Dist. President, BK SANGH Pocharam Village, Yedupally Mandal, Dist: Nizamabad - 503 166 | APNPDCL |
| 28 | Sri K. Sai Reddy, General Secretary, BK SANGH, H.No.11-1-1815, Maruthi Nagar, Dist: Nizamabad - 503002 | APNPDCL |
| 29 | Mr. Varun Agarwal, Executive Director, M/s Ellen barrier Industrial Gases Ltd., Plot No: 57-A, JN Pharma City, Parawada, Vishakhapatnam-531021 | APEPDCL |
| 30 | Sri R.H.N.Sharma, Sr. Citizen, H No: 6-9, Simhachalam, Vishakhapatnam - 530 028 | APEPDCL |

| S No | Name and Address of the Objector | Objection Related To |
|------|--|----------------------|
| 31 | Mr. Lalith Kumar Jain, C/o JIVAN NIVAS, Beside Himagire Theatre, Vizianagaram | APEPDCL |
| 32 | Mr. Krishan Pal, Chief Electrical Distribution Engineer, East Coast Railways 3 rd Floor, South Block, New GM Building, Chandrasekarpur, Bhubaneswar | APEPDCL |
| 33 | Sri B.Govinda Rao, Secretary Solikiri Sisal Growers Society, Solikiri village, Bhamini Mandal, Srikakulam Dist | APEPDCL |
| 34 | Sri Hari Babu, President, Chinnadimili Sisal Growers Society, Chinnadimili village, Bhamini Mandal, Srikakulam Dist | APEPDCL |
| 35 | Sri N.V.Prasad Panda, Vice President, Peddadimili Sisal Growers Society, Peddadimili village, Bhamini Mandal, Srikakulam Dist | APEPDCL |
| 36 | Sri V.Vasudeva Rao, Secretary, Forum for Integrated Development, H No: 3-4-1099/1, (Adj. Bus Depot) Barkatpura, Hyderabad | APEPDCL |
| 37 | Sri P.Narendranath Chowdary, Jt. Managing Director, The Andhra Sugars Ltd m Chemical & Fertilizers Division, Kovvuru - 534 350; West Godavari Dist | APEPDCL |
| 38 | Sri M.S.N.Prasad (Jameel), S/o Pullayya Naidu, Pothailanka (V), Ambajipet Peta Mandal, East Godavari Dist-533214 | APEPDCL |
| 39 | Sri Uppuganti Bhaskar Rao, S/o Buchchi Babu, Kostha Zillala Vice-President, Bharateeya Kisan Sangh, 7-173, Bandar Lanka, Amalapuram Mandal, East Godavari Dist-533214 | APEPDCL |
| 40 | Sri Donga Nageswara Rao, Bharateeya Kisan Sangh-Konaseema President, Gangalakurru Malupu, Ambajipeta Mandal, East Godavari Dist. | APEPDCL |
| 41 | Sri Sarella Appa Rao, Sarellavari Peta, Munganda P.Gannavaram Mandal, East Godavari dist. | APEPDCL |
| 42 | Sri AdaBala Raja Mohan, Vyagreswaram, Ambajipeta Mandal, East Godavari Dist. | APEPDCL |
| 43 | Sri M.Jamil, State Secretary Bharateeya Kisan Sangh, Pothai Lanka Village, Ambajipet Mdl; East Godavari Dist-533214 | APEPDCL |
| 44 | Sri Bitra Sreenivasa Rao, H.No.20-07-25 (1), Muntha Vari Street, Chirala - 523 155; Ongole Dist | APSPDCL |
| 45 | Sri A. Bala Sundaram, Dharmakartha, Sitaramula Vari Devalayam, Kolla Veedhi, Nagari - 517590; Chittoor Dist | APSPDCL |
| 46 | Sri D.V.Laxmi Narayana, Editor, Viniyoga Hakku Maasa Patrika, 4/14, Brodipeta, Guntur - 522002 | APSPDCL |
| 47 | Sri Kaaturu Hari Kishore Kumar Reddy, State Vice-President, Bharateeya Kisan Sangh, Paaturu Post, Kovuru Mandal, Nellore Dist. - 524 135 | APSPDCL |

| S No | Name and Address of the Objector | Objection Related To |
|------|--|----------------------|
| 48 | Sri Polireddy Penchala Reddy S/O Rami Reddy, Penuballi Post, Buchireddy Palem Mandal, Nellore Dist. | APSPDCL |
| 49 | Sri D.Ramaswami Reddy, S.E (Retd) 21/72, Trunk Road, Seven Roads, Opp.Collector's Office, Kadapa - 516 001 | APSPDCL |
| 50 | Sri Natchukuru Muniratnam Reddy, S/O Anna Reddy, Gaanuga Penta Village, Pedda Rama Puram(P.O.), Pakala Mandal, Chittoor Dist | APSPDCL |
| 51 | Sri Kaakarla Vanadri Naidu, S/o K.Ramaiah Naidu, Surineni Vari Palle, Pakala Mandal, Chittoor dist - 517 112 | APSPDCL |
| 52 | Sri Bollineni Chandramouli Naidu, Ex-Sarpanch, S/o Rama Naidu, Shankham Palle(Village & Post), Pakala Mandal, Chittoor Dist | APSPDCL |
| 53 | Sri K.Shankar Reddy, Advocate, H No: 24-09-, Laxmi Nagar Colony, Chittoor (AP) | APSPDCL |
| 54 | Sri C.V.Mohan Rao Secretary, Repalle Pattanabhivruddi Sangham, Repalle-522 265; Guntur Dist | APSPDCL |
| 55 | Sri Addagada Satish Kumar, S/O Venkata Rao, Nagula Palem (P), Paruchur (M), Prakasam Dist-523169 | APSPDCL |
| 56 | Sri Gadagottu Sriram Babu, S/o Kotaiah, Poluru (P), Yeddanapudi (M), Prakasam Dist. | APSPDCL |
| 57 | Sri N.Chandrashaker Reddy, Vice-President, Bharateeya Kisan Sangh, Village-Kotthur, Post-Thangad Palli, Via-Vempally, Kadapa Dist. | APSPDCL |
| 58 | Sri Obul Reddy, Dist. President, Bharateeya Kisan Sangh, Kadapa | APSPDCL |
| 59 | Sri M.Narasimha Naidu, S/o M.Ramachandra Naidu, I cross, Bharatha Mitta, Pakala (V & Mdl); Chittoor Dist | APSPDCL |
| 60 | Sri N.Balakrishna Reddy, S/o N.Sidda Reddy, Thota Palle (V), Samireddy Palle Panchayat, Pakala Mandal, Chittoor Dist | APSPDCL |
| 61 | Sri N.Laxmi Narayana Chowdary, S/o N.Narayana Swamy Chowdary, A.P.Sugarcane Producers' Coordinator, Main Road, Pakala (V & Mdl), Chittoor Dist-- 507112 | APSPDCL |
| 62 | Sri S.Babu Naidu, Komatireddy Palle village, Samireddy palle Panchayat, Pakala Mandal, Chittoor Dist | APSPDCL |
| 63 | Sri V.Subrahmanyam Naidu, Nallagutta Indlu, Upparapalle Panchayat, Pakala Mandal - 517112; Chittoor Dist. | APSPDCL |
| 64 | Sri J.Surendra Reddy, Sami Reddy Palli Panchayat (Post), Pakala Mandal, Chittoor Dist. | APSPDCL |
| 65 | Sri B.Nagaraja, S/o B.Mallayya Ootuvanka village, Damalcheruvu Panchayat, Pakala Mdl, Chittoor Dist. | APSPDCL |
| 66 | Sri B.Yerrappa, S/o Mallayya, Vemayyagari Indlu, Damalcheruvu Panchayat, Pakala Mandal, Chittor dist. | APSPDCL |

| S No | Name and Address of the Objector | Objection Related To |
|------|---|----------------------|
| 67 | Sri P.Rajeswara Reddy, Samireddy Palle, Pakala Mandal, Chittoor Dist | APSPDCL |
| 68 | Sri N.Shankar Naidu, S/o Ram Chandra Naidu, Nannuruvaari Palle, Upparapalle Panchayat, Pakala Mandal, Chittoor Dist. | APSPDCL |
| 69 | P.Arjun Reddy, Sami Reddy Palle (Post & Panchayat), Pakala Mandal, Chittoor Dist. | APSPDCL |
| 70 | Sri Prattipati Koteswara Rao, S/o Ankamma, Karamchedu (Post & Mandal), Prakasam Dist. | APSPDCL |
| 71 | Sri Yarlagadda Papa Rao, S/o Subba Rao, Karamchedu (Post & Mandal), Prakasam Dist | APSPDCL |
| 72 | Sri Yarlagadda Sreenivasa Rao, S/o Naganna, Karamchedu (Post & Mandal), Prakasam Dist | APSPDCL |
| 73 | Sri N.S.R.Anjaneyulu, S/o Subba Rao, Karamchedu (Post & Mandal), Prakasam Dist | APSPDCL |
| 74 | Sri Daggupati Chenchupunnaiah, S/o Laxmayya, Sree Venkateswara Lift irrigation Karamchedu (Post & Mandal), Prakasam Dist | APSPDCL |
| 75 | Sri P.Lokanatha Reddy, S/o Subba Reddy, Peddanapuram, Pakala Mandal (Post & Mdl), Chittoor dist. | APSPDCL |
| 76 | Sri Jagarlamudi Chowdary Babu, S/o Ramayya, Karamchedu (Post & Mandal), Prakasam Dist | APSPDCL |
| 77 | Sri Yarlagadda Udaya Bhaskar Rao President, Sree Bhagyalaxmi Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 78 | Sri Daggupati Venkateswarlu, President, Sree Swatantra Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 79 | Sri Jagarlamudi Prahalada Rao, President, Sree Laxmi Narasimha Swamy Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 80 | Sri Paturi Prasad, Secretary, Ravi Lift Irrigation Society-2, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 81 | Sri Yarlagadda Kotaiah, S/o Laxmi Narayana, Sree Mohan Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 82 | Sri Daggupati Chenchu Punnaiah, S/o Laxmayya, Sree Sathya Narayana Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 83 | Sri Daggupati Laxmayya, s/o Raamanna, Sree Ramanjaneya Lift Irrigation Society, Karamchedu (Post & Mandal), Prakasam Mandal | APSPDCL |
| 84 | Sri N.Ramachandrudu, Manager, M/s Pioneer Spinning & weaving Mills Ltd., P.B.No.27, Puttur - 517 583; Chittoor Dist | APSPDCL |
| 85 | A Bhaskar Reddy S/o A Bontha Reddy, Karinepalle Village, P Kottakota Post ; Pakala Mdl; Chittor Dist-517112 | APSPDCL |

ANNEXURE - D(I)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

Energy Availability - As Filed

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|--------------------------------------|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| APGENCO | | | | | | | | | | | | | | |
| Thermal | | | | | | | | | | | | | | |
| VTPS I | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 124.10 | 127.75 | 124.10 | 128.30 | 256.60 | 239.99 | 256.60 | 2395.31 |
| VTPS II | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 256.60 | 248.20 | 186.60 | 256.15 | 256.60 | 256.60 | 239.99 | 256.60 | 2966.90 |
| VTPS III | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 206.23 | 256.60 | 248.20 | 256.60 | 256.60 | 239.99 | 256.60 | 2858.68 |
| VTPS IV | 1.42 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 299.70 | 309.88 | 179.70 | 275.40 | 309.88 | 279.35 | 309.88 | 3492.80 |
| RTPP I | 1.77 | 247.52 | 255.89 | 122.52 | 185.89 | 255.89 | 248.76 | 243.45 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2814.45 |
| RTPP Stage-II | 1.77 | 247.52 | 255.89 | 247.52 | 255.89 | 255.89 | 102.80 | 198.67 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2818.71 |
| RTPP Stage-III | 1.77 | 100.10 | 100.10 | 100.10 | 98.28 | 98.28 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 1197.56 |
| KTPS A | 1.28 | 132.56 | 136.89 | 132.56 | 136.89 | 119.20 | 99.33 | 136.89 | 115.95 | 136.89 | 136.89 | 128.23 | 136.89 | 1549.19 |
| KTPS B | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| KTPS C | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| KTPS D | 1.28 | 294.84 | 304.67 | 169.84 | 204.67 | 304.67 | 294.84 | 304.67 | 271.56 | 302.33 | 304.67 | 285.01 | 304.67 | 3346.43 |
| KTPS Stage VI | 1.13 | 0.00 | 0.00 | 216.45 | 216.45 | 237.73 | 237.73 | 259.00 | 266.40 | 266.40 | 292.30 | 291.38 | 314.50 | 2598.33 |
| RTS B | 1.64 | 34.76 | 35.95 | 34.76 | 35.95 | 0.00 | 17.29 | 35.95 | 34.76 | 35.95 | 35.95 | 33.67 | 35.95 | 370.92 |
| 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 | 0.00 |
| Kakatiya Thermal Power Plant Stage I | 1.16 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 149.85 | 309.88 | 299.70 | 309.88 | 309.88 | 279.35 | 309.88 | 3497.43 |
| TOTAL THERMAL | | 2666.78 | 2753.44 | 2633.23 | 2798.07 | 2607.77 | 2394.40 | 2743.93 | 2590.32 | 2854.73 | 3045.74 | 2852.16 | 3067.94 | 33008.51 |
| MACHKUND PH AP Share | 0.00 | 29.27 | 28.24 | 22.70 | 26.36 | 27.20 | 30.39 | 31.80 | 28.33 | 27.58 | 29.83 | 27.20 | 27.49 | 336.39 |
| TUNGBHADRA PH AP Share0 | 0.00 | 2.06 | 0.28 | 0.19 | 8.35 | 21.29 | 20.36 | 19.14 | 15.85 | 13.13 | 13.41 | 10.32 | 9.57 | 133.96 |

ANNEXURE - D(I)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|--|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| USL | 0.00 | 31.52 | 28.42 | 26.73 | 35.74 | 37.43 | 31.80 | 31.61 | 29.17 | 36.02 | 42.78 | 45.50 | 51.50 | 428.23 |
| LSR | 0.00 | 88.93 | 73.51 | 66.04 | 80.20 | 85.75 | 83.64 | 88.75 | 78.48 | 85.14 | 99.39 | 99.12 | 110.67 | 1039.62 |
| DONKARAYI | 0.00 | 6.95 | 5.00 | 4.25 | 5.16 | 7.16 | 7.27 | 8.55 | 8.11 | 9.08 | 10.21 | 10.06 | 10.71 | 92.50 |
| SSLM | 0.00 | 45.04 | 18.88 | 17.75 | 97.49 | 259.36 | 178.63 | 190.04 | 143.47 | 72.78 | 78.24 | 123.35 | 125.21 | 1350.25 |
| NSPH | 0.00 | 66.33 | 26.71 | 35.55 | 144.97 | 255.00 | 254.07 | 231.37 | 121.78 | 99.61 | 82.59 | 98.45 | 121.22 | 1537.65 |
| NSRCPH | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.19 | 42.04 | 28.14 | 19.70 | 18.76 | 14.07 | 9.38 | 4.69 | 145.98 |
| NSLCPH | 0.00 | 0.17 | 0.00 | 0.00 | 0.43 | 6.40 | 13.30 | 16.41 | 13.43 | 9.37 | 5.07 | 1.51 | 0.28 | 66.37 |
| POCHAMPAD PH | 0.00 | 1.22 | 0.00 | 0.00 | 1.36 | 11.85 | 16.89 | 16.40 | 12.25 | 9.12 | 8.41 | 6.44 | 5.23 | 89.15 |
| NIZAMSAGAR PH | 0.00 | 0.71 | 0.14 | 0.00 | 0.07 | 0.49 | 1.42 | 2.09 | 0.81 | 0.76 | 1.68 | 1.50 | 1.60 | 11.27 |
| PABM | 0.00 | 0.05 | 0.08 | 0.05 | 0.00 | 0.97 | 1.26 | 1.33 | 1.48 | 0.88 | 0.48 | 0.12 | 0.21 | 6.89 |
| MINI HYDRO&OTHERS | 0.00 | 0.54 | 0.05 | 0.19 | 0.43 | 1.22 | 1.39 | 1.69 | 1.59 | 1.32 | 1.21 | 1.03 | 0.90 | 11.57 |
| SINGUR | 0.00 | 0.31 | 0.15 | 0.07 | 0.28 | 0.68 | 1.99 | 1.47 | 0.04 | 0.19 | 0.43 | 0.36 | 1.05 | 7.02 |
| SSLM LCPH | 0.00 | 67.42 | 28.27 | 26.57 | 145.94 | 368.25 | 367.10 | 284.48 | 139.92 | 158.96 | 137.13 | 147.22 | 150.01 | 2021.29 |
| Priyadarshini Jurala Hydro Electric Project-AP Share | 0.00 | 0.00 | 0.00 | 0.00 | 70.36 | 70.36 | 70.36 | 70.36 | 37.52 | 37.52 | 14.07 | 9.38 | 4.69 | 384.61 |
| TOTAL HYDRO | | 340.52 | 209.72 | 200.08 | 617.14 | 1162.60 | 1121.89 | 1023.64 | 651.95 | 580.24 | 538.99 | 590.93 | 625.04 | 7662.75 |
| TOTAL APGENCO | | 3007.31 | 2963.16 | 2833.32 | 3415.21 | 3770.37 | 3516.29 | 3767.56 | 3242.26 | 3434.97 | 3584.73 | 3443.09 | 3692.98 | 40671.26 |
| Central Generating Stations | | | | | | | | | | | | | | |
| NTPC (SR) | 1.23 | 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 | 1.26 | 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 |
| Total NTPC(SR) | | 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 |
| NTPC (ER) | | | | | | | | | | | | | | |
| Talcher Stage 2 | 0.82 | 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 |

ANNEXURE - D(I)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|---------------------------------|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| 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 |
| Total NTPC(ER) | | 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 |
| Total NTPC | | 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 |
| NLC TS-II | | | | | | | | | | | | | | |
| Stage-I | 1.39 | 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 |
| Stage-II | 1.40 | 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 |
| Total NLC | | 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 |
| NPC | | | | | | | | | | | | | | |
| NPC-MAPS | 1.95 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 14.00 | 10.00 | 19.00 | 19.00 | 19.00 | 17.00 | 19.00 | 212.00 |
| NPC-Kaiga unit I | 3.04 | 58.09 | 60.39 | 59.13 | 61.39 | 41.89 | 55.05 | 57.63 | 58.68 | 60.57 | 55.35 | 26.09 | 60.09 | 654.36 |
| NPC-Kaiga unit II | 3.04 | 29.83 | 0.00 | 38.70 | 25.48 | 0.00 | 0.00 | 8.84 | 16.93 | 0.00 | 0.00 | 0.00 | 6.06 | 125.84 |
| Total NPC | | 106.92 | 79.39 | 116.84 | 105.87 | 60.89 | 69.05 | 76.47 | 94.61 | 79.57 | 74.35 | 43.09 | 85.15 | 992.20 |
| NTPC - Simhadri | | | | | | | | | | | | | | |
| NTPC Simhadri Stage I | 1.58 | 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 | 1.58 | 107.04 | 110.61 | 107.04 | 110.61 | 110.61 | 107.04 | 221.22 | 214.08 | 221.22 | 221.22 | 199.81 | 221.22 | 1951.70 |
| Total NTPC- Simhadri | | 747.04 | 771.61 | 747.04 | 771.61 | 600.61 | 576.04 | 882.22 | 854.08 | 882.22 | 882.22 | 796.81 | 882.22 | 9393.70 |
| CGS - New | | | | | | | | | | | | | | |
| TOTAL CGS | | 1905.99 | 1928.70 | 1831.90 | 1737.25 | 1635.24 | 1562.19 | 1998.25 | 1906.91 | 1976.26 | 2042.21 | 1859.69 | 2057.88 | 22442.47 |
| APGPCL | | | | | | | | | | | | | | |
| APGPCL I - Allocated capacity | 1.92 | 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 |
| APGPCL II - Allocated capacity | 1.72 | 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 |
| Total Apgpcl | | 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 - D(I)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|--|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| IPPS | | | | | | | | | | | | | | |
| GVK | 1.67 | 119.59 | 98.64 | 123.08 | 123.95 | 128.31 | 122.20 | 129.19 | 125.70 | 131.81 | 128.31 | 116.09 | 125.70 | 1472.57 |
| Spectrum | 1.70 | 117.28 | 119.27 | 115.79 | 121.29 | 121.11 | 116.79 | 121.61 | 117.68 | 91.33 | 122.03 | 109.73 | 121.36 | 1395.28 |
| 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) | 1.76 | 184.39 | 209.52 | 202.27 | 220.09 | 216.57 | 209.42 | 220.09 | 184.80 | 216.52 | 220.09 | 202.37 | 216.52 | 2502.67 |
| BSES | 1.65 | 125.27 | 126.32 | 125.27 | 129.48 | 126.32 | 125.27 | 129.48 | 109.48 | 129.48 | 129.48 | 117.90 | 129.48 | 1503.25 |
| GVK Extension | 1.79 | 126.25 | 131.34 | 126.25 | 105.11 | 125.74 | 122.09 | 126.33 | 123.36 | 128.37 | 128.46 | 124.04 | 132.19 | 1499.53 |
| Vemagiri | 1.83 | 210.87 | 242.46 | 234.57 | 116.09 | 242.46 | 234.57 | 218.77 | 234.57 | 242.46 | 218.77 | 218.77 | 242.46 | 2656.82 |
| Gautami | 1.79 | 268.13 | 265.93 | 255.38 | 253.29 | 270.17 | 247.43 | 263.52 | 262.14 | 270.36 | 267.72 | 246.40 | 273.58 | 3144.03 |
| Konaseema | 2.04 | 260.65 | 269.14 | 260.65 | 208.01 | 269.14 | 260.65 | 269.14 | 260.65 | 269.14 | 269.14 | 252.16 | 269.14 | 3117.58 |
| TOTAL IPPS | | 1412.42 | 1462.63 | 1443.25 | 1277.31 | 1499.83 | 1438.42 | 1478.13 | 1418.37 | 1479.48 | 1484.01 | 1387.46 | 1510.43 | 17291.73 |
| NCE | | | | | | | | | | | | | | |
| NCE - Bio-Mass | 3.90 | 104.40 | 101.03 | 104.40 | 101.03 | 104.40 | 104.40 | 101.03 | 104.40 | 101.03 | 104.40 | 104.40 | 94.30 | 1229.22 |
| NCE - Bagasse | 3.10 | 70.12 | 67.85 | 70.12 | 67.85 | 70.12 | 70.12 | 67.85 | 70.12 | 67.85 | 70.12 | 70.12 | 63.33 | 825.55 |
| NCE - Municipal Waste to Energy | 4.24 | 6.04 | 5.84 | 6.04 | 5.84 | 6.04 | 6.04 | 5.84 | 6.04 | 5.84 | 6.04 | 6.04 | 5.45 | 71.11 |
| NCE - Industrial Waste based power project | 4.07 | 11.73 | 11.35 | 11.73 | 14.50 | 14.98 | 14.98 | 14.50 | 14.98 | 14.50 | 14.98 | 14.98 | 16.47 | 169.69 |
| NCE - Wind Power | 3.40 | 24.54 | 23.75 | 24.54 | 23.75 | 24.54 | 51.06 | 49.41 | 51.06 | 49.41 | 51.06 | 51.06 | 46.12 | 470.31 |
| NCE - Mini Hydel | 2.09 | 12.57 | 12.16 | 12.57 | 12.16 | 12.57 | 12.57 | 12.16 | 12.57 | 12.16 | 12.57 | 12.57 | 11.35 | 147.96 |
| NCE - NCL Energy Ltd | 1.78 | 1.72 | 1.66 | 1.72 | 1.66 | 1.72 | 1.72 | 1.66 | 1.72 | 1.66 | 1.72 | 1.72 | 1.55 | 20.24 |
| NCE-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 |
| TOTAL NCE | 3.51 | 231.11 | 223.66 | 231.11 | 226.80 | 234.36 | 260.88 | 252.46 | 260.88 | 252.46 | 260.88 | 260.88 | 238.57 | 2934.07 |
| OTHERS | | | | | | | | | | | | | | |
| Srivathsa | 1.95 | 11.64 | 11.64 | 11.64 | 11.64 | 10.67 | 8.25 | 8.25 | 7.76 | 7.76 | 7.76 | 7.76 | 5.82 | 110.60 |

ANNEXURE - D(I)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|---------------------------------|---------------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| LVS | 7.77 | 24.88 | 25.87 | 19.83 | 19.53 | 20.57 | 0.00 | 0.00 | 23.02 | 9.14 | 25.73 | 24.18 | 25.73 | 218.47 |
| TOTAL OTHERS | | 36.52 | 37.51 | 31.47 | 31.17 | 31.25 | 8.25 | 8.25 | 30.78 | 16.90 | 33.49 | 31.94 | 31.55 | 329.07 |
| MARKET | | | | | | | | | | | | | | |
| Other Short Term Sources | 5.50 | 876.11 | 402.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 213.51 | 822.63 | 1118.57 | 3433.68 |
| Pool Purchases | 2.94 | 224.67 | 258.17 | 199.00 | 160.12 | 141.04 | 238.84 | 161.16 | 127.00 | 65.53 | 231.36 | 122.15 | 257.51 | 2186.55 |
| Pool Sales | 2.94 | -224.67 | -258.17 | -199.00 | -160.12 | -141.04 | -238.84 | -161.16 | -127.00 | -65.53 | -231.36 | -122.15 | -257.51 | -2186.55 |
| TOTAL MARKET | 5.50 | 876.11 | 402.86 | 0.00 | 213.51 | 822.63 | 1118.57 | 3433.68 |
| TOTAL (From All Sources) | | 7493.62 | 7043.47 | 6393.27 | 6712.69 | 7182.09 | 6810.16 | 7529.61 | 6883.35 | 7185.02 | 7643.77 | 7829.03 | 8674.92 | 87380.99 |

ANNEXURE - D(II)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

Energy Availability - APERC

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|---------------------------------------|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| APGENCO | | | | | | | | | | | | | | |
| Thermal | | | | | | | | | | | | | | |
| VTPS I | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 124.10 | 127.75 | 124.10 | 128.30 | 256.60 | 239.99 | 256.60 | 2395.31 |
| VTPS II | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 256.60 | 248.20 | 186.60 | 256.15 | 256.60 | 256.60 | 239.99 | 256.60 | 2966.90 |
| VTPS III | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 206.23 | 256.60 | 248.20 | 256.60 | 256.60 | 239.99 | 256.60 | 2858.68 |
| VTPS IV | 1.42 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 299.70 | 309.88 | 179.70 | 275.40 | 309.88 | 279.35 | 309.88 | 3492.80 |
| RTPP I | 1.77 | 247.52 | 255.89 | 122.52 | 185.89 | 255.89 | 248.76 | 243.45 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2814.45 |
| RTPP Stage-II | 1.77 | 247.52 | 255.89 | 247.52 | 255.89 | 255.89 | 102.80 | 198.67 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2818.71 |
| RTPP Stage-III | 1.77 | 100.10 | 100.10 | 100.10 | 98.28 | 98.28 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 1197.56 |
| KTPS A | 1.28 | 132.56 | 136.89 | 132.56 | 136.89 | 119.20 | 99.33 | 136.89 | 115.95 | 136.89 | 136.89 | 128.23 | 136.89 | 1549.19 |
| KTPS B | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| KTPS C | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| KTPS D | 1.28 | 294.84 | 304.67 | 169.84 | 204.67 | 304.67 | 294.84 | 304.67 | 271.56 | 302.33 | 304.67 | 285.01 | 304.67 | 3346.43 |
| KTPS Stage VI | 1.13 | 0.00 | 0.00 | 216.45 | 216.45 | 237.73 | 237.73 | 259.00 | 266.40 | 266.40 | 292.30 | 291.38 | 314.50 | 2598.33 |
| RTS B | 1.64 | 34.76 | 35.95 | 34.76 | 35.95 | 0.00 | 17.29 | 35.95 | 34.76 | 35.95 | 35.95 | 33.67 | 35.95 | 370.92 |
| 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 | 0.00 |
| Kakatiya Thermal Power Plant Stage I | 1.16 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 149.85 | 309.88 | 299.70 | 309.88 | 309.88 | 279.35 | 309.88 | 3497.43 |
| 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 |
| TOTAL THERMAL | | 2666.78 | 2753.44 | 2633.23 | 2798.07 | 2607.77 | 2394.40 | 2743.93 | 2590.32 | 2854.73 | 3045.74 | 2852.16 | 3067.94 | 33008.51 |
| MACHKUND PH AP Share | 0.00 | 29.27 | 28.24 | 22.70 | 26.36 | 27.20 | 30.39 | 31.80 | 28.33 | 27.58 | 29.83 | 27.20 | 27.49 | 336.39 |

| ANNEXURE - D(II) | | | | | | | | | | | | | | |
|---|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12 | | | | | | | | | | | | | | |
| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| NTPC (SR) | | | | | | | | | | | | | | |
| NTPC (SR) | 1.23 | 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 | 1.26 | 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 |
| Total NTPC(SR) | | 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 |
| NTPC (ER) | | | | | | | | | | | | | | |
| 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 | 0.82 | 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 |
| Total NTPC(ER) | | 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 |
| Total NTPC | | 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 |
| NLC TS-II | | | | | | | | | | | | | | |
| Stage-I | 1.39 | 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 |
| Stage-II | 1.40 | 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 |
| Total NLC | | 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 |
| NPC | | | | | | | | | | | | | | |
| NPC-MAPS | 1.95 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 14.00 | 10.00 | 19.00 | 19.00 | 19.00 | 17.00 | 19.00 | 212.00 |
| NPC-Kaiga unit I | 3.04 | 58.09 | 60.39 | 59.13 | 61.39 | 41.89 | 55.05 | 57.63 | 58.68 | 60.57 | 55.35 | 26.09 | 60.09 | 654.36 |
| NPC-Kaiga unit II | 3.04 | 29.83 | 0.00 | 38.70 | 25.48 | 0.00 | 0.00 | 8.84 | 16.93 | 0.00 | 0.00 | 0.00 | 6.06 | 125.84 |
| Total NPC | | 106.92 | 79.39 | 116.84 | 105.87 | 60.89 | 69.05 | 76.47 | 94.61 | 79.57 | 74.35 | 43.09 | 85.15 | 992.20 |
| NTPC - Simhadri | | | | | | | | | | | | | | |
| NTPC Simhadri Stage I | 1.58 | 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 | 1.58 | 107.04 | 110.61 | 107.04 | 110.61 | 110.61 | 107.04 | 221.22 | 214.08 | 221.22 | 221.22 | 199.81 | 221.22 | 1951.70 |
| Total NTPC- Simhadri | | 747.04 | 771.61 | 747.04 | 771.61 | 600.61 | 576.04 | 882.22 | 854.08 | 882.22 | 882.22 | 796.81 | 882.22 | 9393.70 |
| CGS - New | | | | | | | | | | | | | | |
| TOTAL CGS | | 1905.99 | 1928.70 | 1831.90 | 1737.25 | 1635.24 | 1562.19 | 1998.25 | 1906.91 | 1976.26 | 2042.21 | 1859.69 | 2057.88 | 22442.47 |
| APGPCL | | | | | | | | | | | | | | |
| APGPCL I - Allocated capacity | 1.92 | 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 |

ANNEXURE - D(II)

STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY FOR FY 2011-12

| Generating Station | Variable Cost (Rs. / kWh) | Energy Availability (MU) | | | | | | | | | | | | |
|---------------------------------|---------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | March | Total |
| Srivathsa | 1.95 | 11.64 | 11.64 | 11.64 | 11.64 | 10.67 | 8.25 | 8.25 | 7.76 | 7.76 | 7.76 | 7.76 | 5.82 | 110.60 |
| LVS | 7.77 | 24.88 | 25.87 | 19.83 | 19.53 | 20.57 | 0.00 | 0.00 | 23.02 | 9.14 | 25.73 | 24.18 | 25.73 | 218.47 |
| TOTAL OTHERS | | 36.52 | 37.51 | 31.47 | 31.17 | 31.25 | 8.25 | 8.25 | 30.78 | 16.90 | 33.49 | 31.94 | 31.55 | 329.07 |
| TOTAL (From All Sources) | | 6683.45 | 6700.04 | 6448.03 | 6790.76 | 7316.27 | 7136.09 | 7658.75 | 6912.83 | 7247.23 | 7497.49 | 7062.73 | 7631.53 | 85085.21 |

ANNEXURE - D(III)

STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2011-12

Energy Despatch

| Station Name | Rs/kWh | Energy Despatch (in MUs) | | | | | | | | | | | | Total 2011-12 |
|--|-------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | |
| NCE | | | | | | | | | | | | | | |
| NCE - Bio-Mass | 3.90 | 104.40 | 101.03 | 104.40 | 101.03 | 104.40 | 104.40 | 101.03 | 104.40 | 101.03 | 104.40 | 104.40 | 94.30 | 1229.22 |
| NCE - Bagasse | 3.10 | 70.12 | 67.85 | 70.12 | 67.85 | 70.12 | 70.12 | 67.85 | 70.12 | 67.85 | 70.12 | 70.12 | 63.33 | 825.55 |
| NCE - Municipal Waste to Energy | 4.24 | 6.04 | 5.84 | 6.04 | 5.84 | 6.04 | 6.04 | 5.84 | 6.04 | 5.84 | 6.04 | 6.04 | 5.45 | 71.11 |
| NCE - Industrial Waste based power project | 4.07 | 11.73 | 11.35 | 11.73 | 14.50 | 14.98 | 14.98 | 14.50 | 14.98 | 14.50 | 14.98 | 14.98 | 16.47 | 169.69 |
| NCE - Wind Power | 3.40 | 24.54 | 23.75 | 24.54 | 23.75 | 24.54 | 51.06 | 49.41 | 51.06 | 49.41 | 51.06 | 51.06 | 46.12 | 470.31 |
| NCE - Mini Hydel | 2.09 | 12.57 | 12.16 | 12.57 | 12.16 | 12.57 | 12.57 | 12.16 | 12.57 | 12.16 | 12.57 | 12.57 | 11.35 | 147.96 |
| NCE - NCL Energy Ltd | 1.78 | 1.72 | 1.66 | 1.72 | 1.66 | 1.72 | 1.72 | 1.66 | 1.72 | 1.66 | 1.72 | 1.72 | 1.55 | 20.24 |
| NCE-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 | |
| TOTAL NCE | 3.53 | 231.11 | 223.66 | 231.11 | 226.80 | 234.36 | 260.88 | 252.46 | 260.88 | 252.46 | 260.88 | 260.88 | 238.57 | 2934.07 |
| NPC | | | | | | | | | | | | | | |
| NPC-MAPS | 1.95 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 14.00 | 10.00 | 19.00 | 19.00 | 19.00 | 17.00 | 19.00 | 212.00 |
| NPC-Kaiga unit I | 3.04 | 58.09 | 60.39 | 59.13 | 61.39 | 41.89 | 55.05 | 57.63 | 58.68 | 60.57 | 55.35 | 26.09 | 60.09 | 654.36 |
| NPC-Kaiga unit II | 3.04 | 29.83 | 0.00 | 38.70 | 25.48 | 0.00 | 0.00 | 8.84 | 16.93 | 0.00 | 0.00 | 0.00 | 6.06 | 125.84 |
| Total NPC | | 106.92 | 79.39 | 116.84 | 105.87 | 60.89 | 69.05 | 76.47 | 94.61 | 79.57 | 74.35 | 43.09 | 85.15 | 992.20 |
| | | | | | | | | | | | | | | |
| Total of Must-Run Stations : | | 338.04 | 303.05 | 347.95 | 332.67 | 295.25 | 329.93 | 328.94 | 355.49 | 332.04 | 335.23 | 303.97 | 323.72 | 3926.28 |
| | | | | | | | | | | | | | | |
| MACHKUND PH AP Share | 0.00 | 29.27 | 28.24 | 22.70 | 26.36 | 27.20 | 30.39 | 31.80 | 28.33 | 27.58 | 29.83 | 27.20 | 27.49 | 336.39 |

ANNEXURE - D(III)**STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2011-12**

| Station Name | Rs/kWh | Energy Despatch (in MUs) | | | | | | | | | | | Total 2011-12 | |
|--------------------------------------|--------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|---------|
| | | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | | Mar/12 |
| NTPC_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 |
| NTPC_ Talcher Stage 2 | 0.82 | 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 Stage VI | 1.13 | 0.00 | 0.00 | 216.45 | 216.45 | 237.73 | 237.73 | 259.00 | 266.40 | 266.40 | 292.30 | 291.38 | 314.50 | 2598.33 |
| Kakatiya Thermal Power Plant Stage I | 1.16 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 149.85 | 309.88 | 299.70 | 309.88 | 309.88 | 279.35 | 309.88 | 3497.43 |
| NTPC (SR) | 1.23 | 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 |

ANNEXURE - D(III)

STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2011-12

| Station Name | Rs/kWh | Energy Despatch (in MUs) | | | | | | | | | | | Total 2011-12 | |
|--------------------------------|--------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|---------|
| | | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | | Mar/12 |
| NTPC (SR) Stage III | 1.26 | 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 |
| KTPS D | 1.28 | 294.84 | 304.67 | 169.84 | 204.67 | 304.67 | 294.84 | 304.67 | 271.56 | 302.33 | 304.67 | 285.01 | 304.67 | 3346.43 |
| KTPS A | 1.28 | 132.56 | 136.89 | 132.56 | 136.89 | 119.20 | 99.33 | 136.89 | 115.95 | 136.89 | 136.89 | 128.23 | 136.89 | 1549.19 |
| KTPS B | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| KTPS C | 1.28 | 132.74 | 137.26 | 132.74 | 137.26 | 101.59 | 132.74 | 137.26 | 99.33 | 137.26 | 137.26 | 128.23 | 137.26 | 1550.90 |
| NLC_Stage-I | 1.39 | 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_Stage-II | 1.40 | 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 |
| VTPS IV | 1.42 | 299.70 | 309.88 | 299.70 | 309.88 | 309.88 | 299.70 | 309.88 | 179.70 | 275.40 | 309.88 | 279.35 | 309.88 | 3492.80 |
| VTPS II | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 256.60 | 248.20 | 186.60 | 256.15 | 256.60 | 256.60 | 239.99 | 256.60 | 2966.90 |
| VTPS I | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 124.10 | 127.75 | 124.10 | 128.30 | 256.60 | 239.99 | 256.60 | 2395.31 |
| VTPS III | 1.58 | 248.20 | 256.60 | 248.20 | 256.60 | 128.30 | 206.23 | 256.60 | 248.20 | 256.60 | 256.60 | 239.99 | 256.60 | 2858.68 |
| NTPC Simhadri Stage I | 1.58 | 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 | 1.58 | 107.04 | 110.61 | 107.04 | 110.61 | 110.61 | 107.04 | 221.22 | 214.08 | 221.22 | 221.22 | 199.81 | 221.22 | 1951.70 |
| RTS B | 1.64 | 34.76 | 35.95 | 34.76 | 35.95 | 0.00 | 17.29 | 35.95 | 34.76 | 35.95 | 35.95 | 33.67 | 35.95 | 370.92 |
| BSES (Reliance) | 1.65 | 125.27 | 126.32 | 125.27 | 129.48 | 126.32 | 125.27 | 129.48 | 109.48 | 129.48 | 129.48 | 117.90 | 129.48 | 1503.25 |
| GVK | 1.67 | 126.52 | 104.35 | 130.21 | 131.14 | 135.75 | 129.29 | 136.68 | 132.98 | 139.45 | 135.75 | 122.82 | 132.98 | 1557.94 |
| Spectrum | 1.70 | 125.81 | 127.95 | 124.22 | 130.11 | 129.93 | 125.29 | 130.46 | 126.24 | 97.98 | 130.91 | 117.71 | 130.19 | 1496.79 |
| APGPCL II - Allocated capacity | 1.72 | 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 |
| Kondapalli (Gas) | 1.76 | 186.08 | 211.44 | 204.12 | 222.11 | 218.55 | 211.34 | 222.11 | 186.49 | 218.50 | 222.11 | 204.22 | 218.50 | 2525.59 |
| RTPP I | 1.77 | 247.52 | 255.89 | 122.52 | 185.89 | 255.89 | 248.76 | 243.45 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2814.45 |
| RTPP Stage-III | 1.77 | 100.10 | 100.10 | 100.10 | 98.28 | 98.28 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 100.10 | 1197.56 |
| RTPP Stage-II | 1.77 | 247.52 | 255.89 | 247.52 | 255.89 | 255.89 | 102.80 | 198.67 | 247.52 | 255.89 | 255.89 | 239.33 | 255.89 | 2818.71 |
| Gautami | 1.79 | 284.33 | 282.00 | 270.81 | 268.59 | 286.49 | 262.38 | 279.44 | 277.98 | 286.70 | 283.90 | 261.29 | 290.11 | 3334.02 |

ANNEXURE - D(III)

STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY FOR FY 2011-12

| Station Name | Rs/kWh | Energy Despatch (in MUs) | | | | | | | | | | | Total 2011-12 | |
|-----------------------------------|--------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|----------|
| | | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | | Mar/12 |
| GVK Extension | 1.79 | 133.09 | 138.46 | 133.09 | 110.80 | 132.55 | 86.45 | 97.99 | 130.05 | 135.33 | 135.42 | 130.76 | 139.35 | 1503.34 |
| Vemagiri | 1.83 | 211.01 | 242.63 | 234.72 | 116.17 | 110.84 | 0.00 | 0.00 | 234.72 | 160.61 | 218.91 | 218.91 | 242.63 | 1991.15 |
| APGPCL I - Allocated capacity | 1.92 | 5.53 | 5.72 | 3.61 | 4.92 | 0.00 | 0.00 | 0.00 | 5.53 | 0.00 | 5.72 | 5.35 | 5.72 | 42.09 |
| Srivathsa | 1.95 | 11.64 | 11.64 | 11.64 | 0.00 | 0.00 | 0.00 | 0.00 | 7.76 | 0.00 | 7.76 | 7.76 | 5.82 | 64.03 |
| Konaseema | 2.04 | 267.33 | 276.04 | 162.36 | 0.00 | 0.00 | 0.00 | 0.00 | 22.24 | 0.00 | 23.94 | 258.62 | 276.04 | 1286.56 |
| LVS | 7.77 | 24.88 | 25.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.18 | 25.73 | 100.65 |
| TOTAL Despatch (MU) : | | 6683.45 | 6700.04 | 6323.22 | 6545.45 | 6866.77 | 6578.01 | 7114.65 | 6644.72 | 6866.56 | 7219.67 | 7062.73 | 7631.53 | 82236.81 |
| Monthly Requirement (MU) : | | 7201.87 | 6828.46 | 6323.22 | 6545.45 | 6866.77 | 6578.01 | 7114.65 | 6644.72 | 6866.56 | 7219.67 | 7408.11 | 8015.15 | 83612.66 |
| Market Purchase (MU) | 5.50 | 518.41 | 128.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 345.38 | 383.62 | 1375.84 |
| Monthly Availability (MU) | | 6683.45 | 6700.04 | 6448.03 | 6790.76 | 7316.27 | 7136.09 | 7658.75 | 6912.83 | 7247.23 | 7497.49 | 7062.73 | 7631.53 | 85085.21 |

ANNEXURE - E
Calculation of Power Purchase Requirement for FY 2011-12
Power Purchase (in MU) with Voltage Wise Sales (in MU) and Voltage Wise Loss(%)

| LOSSES AT DIFF.VOLTAGES (%) | | | FY 2011-12 | | Input after grossing up with losses at each level | | | |
|-----------------------------|---------|--------|--------------------------------|----------|---|----------|----------|----------|
| DISCOM | Voltage | % Loss | Voltage | Sales | LT | 11kV | 33kV | 132kV |
| CPDCL | L.T. | 8.80 | L.T. | 17952.33 | 19684.58 | 20885.49 | 21760.25 | 22690.57 |
| CGS Share | 11kV | 5.75 | 11kV | 4176.12 | | 4430.90 | 4616.48 | 4813.85 |
| 46.06% | 33kV | 4.02 | 33kV | 5785.28 | | | 6027.59 | 6285.28 |
| CGS (MU) | 132kV | 4.10 | 132kV | 3991.26 | | | | 4161.90 |
| 6010.27 | PGCIL | 5.10 | TOTAL | 31904.99 | 19684.58 | 25316.39 | 32404.32 | 37951.60 |
| | | | % Loss up to said voltage : | | | 12.59% | 13.86% | 15.93% |
| | | | | | | D. Loss: | 4490.59 | |
| | | | | | | T. Loss | 1556.02 | |
| | | | | | | PGC Loss | 306.52 | 38258.12 |
| | | | Loss(MU) & % Loss incl.PGCIL : | | | TOTAL | 6353.13 | 16.61% |

| DISCOM | Voltage | % Loss | Voltage | Sales | LT | 11kV | 33kV | 132kV |
|-----------|---------|--------|--------------------------------|----------|---------|----------|----------|----------|
| EPDCL | L.T. | 5.21 | L.T. | 6434.30 | 6787.95 | 7093.69 | 7351.74 | 7666.05 |
| CGS Share | 11kV | 4.31 | 11kV | 1775.36 | | 1855.33 | 1922.82 | 2005.02 |
| 15.80% | 33kV | 3.51 | 33kV | 1202.27 | | | 1246.01 | 1299.28 |
| CGS (MU) | 132kV | 4.10 | 132kV | 2447.76 | | | | 2552.41 |
| 2061.71 | PGCIL | 5.10 | TOTAL | 11859.69 | 6787.95 | 8949.02 | 10520.56 | 13522.75 |
| | | | % Loss up to said voltage : | | | 8.26% | 10.54% | 12.30% |
| | | | | | | D. Loss: | 1108.63 | |
| | | | | | | T. Loss | 554.43 | |
| | | | | | | PGC Loss | 105.15 | 13627.90 |
| | | | Loss(MU) & % Loss incl.PGCIL : | | | TOTAL | 1768.21 | 12.97% |

ANNEXURE - E
Calculation of Power Purchase Requirement for FY 2011-12
Power Purchase (in MU) with Voltage Wise Sales (in MU) and Voltage Wise Loss(%)

| DISCOM | Voltage | % Loss | Voltage | Sales | LT | 11kV | 33kV | 132kV |
|-----------|---------|--------|--------------------------------|----------|---------|----------|---------|----------|
| NPDCL | L.T. | 7.50 | L.T. | 7237.36 | 7824.18 | 8210.05 | 8561.05 | 8927.06 |
| CGS Share | 11kV | 4.70 | 11kV | 1119.11 | | 1174.30 | 1224.50 | 1276.85 |
| 15.87% | 33kV | 4.10 | 33kV | 193.50 | | | 201.77 | 210.40 |
| CGS (MU) | 132kV | 4.10 | 132kV | 1535.80 | | | | 1601.45 |
| 2070.84 | PGCIL | 5.10 | TOTAL | 10085.76 | 7824.18 | 9384.35 | 9987.33 | 12015.77 |
| | | | % Loss up to said voltage : | | | 10.95% | 14.39% | 16.06% |
| | | | | | | D. Loss: | 1437.36 | |
| | | | | | | T. Loss | 492.65 | |
| | | | | | | PGC Loss | 105.61 | 12121.38 |
| | | | Loss(MU) & % Loss incl.PGCIL : | | | TOTAL | 2035.62 | 16.79% |

| DISCOM | Voltage | % Loss | Voltage | Sales | LT | 11kV | 33kV | 132kV |
|-----------|---------|--------|--------------------------------|----------|----------|----------|----------|----------|
| SPDCL | L.T. | 6.40 | L.T. | 11183.62 | 11948.31 | 12511.32 | 13032.62 | 13589.80 |
| CGS Share | 11kV | 4.50 | 11kV | 1570.05 | | 1644.03 | 1712.53 | 1785.75 |
| 22.27% | 33kV | 4.00 | 33kV | 2303.25 | | | 2399.22 | 2501.79 |
| CGS (MU) | 132kV | 4.10 | 132kV | 1514.94 | | | | 1579.71 |
| 2905.96 | PGCIL | 5.10 | TOTAL | 16571.85 | 11948.31 | 14155.35 | 17144.37 | 19457.05 |
| | | | % Loss up to said voltage : | | | 9.90% | 12.18% | 14.83% |
| | | | | | | D. Loss: | 2087.46 | |
| | | | | | | T. Loss | 797.74 | |
| | | | | | | PGC Loss | 148.20 | 19605.25 |
| | | | Loss(MU) & % Loss incl.PGCIL : | | | TOTAL | 3033.40 | 15.47% |

ANNEXURE - E
Calculation of Power Purchase Requirement for FY 2011-12
Power Purchase (in MU) with Voltage Wise Sales (in MU) and Voltage Wise Loss(%)

| DISCOM | Voltage | % Loss | Voltage | Sales | LT | 11kV | 33kV | 132kV |
|-------------|-----------|--------|--------------------------------|----------|----------|----------|----------|----------|
| All Discoms | L.T. | 7.43 | L.T. | 42807.62 | 46245.02 | 48700.55 | 50705.67 | 52873.48 |
| CGS Share | 11kV | 5.05 | 11kV | 8640.64 | | 9104.55 | 9476.33 | 9881.47 |
| 100.00% | 33kV | 3.95 | 33kV | 9484.30 | | | 9874.58 | 10296.75 |
| CGS (MU) | 132kV | 4.10 | 132kV | 9489.75 | | | | 9895.46 |
| 13048.78 | PGCIL | 5.10 | TOTAL | 70422.30 | 46245.02 | 57805.11 | 70056.58 | 82947.17 |
| | Loss (MU) | | % Loss up to said voltage : | | | 11.00% | 13.02% | 15.10% |
| 13048.78 | 665.49 | | | | | D. Loss: | 9124.03 | |
| | | | | | | T. Loss | 3400.83 | |
| | | | | | | PGC Loss | 665.49 | 83612.66 |
| | | | Loss(MU) & % Loss incl.PGCIL : | | | TOTAL | 13190.35 | 15.78% |

ANNEXURE - F
APGENCO's STATION WISE FIXED COSTS FOR FY 2011-12

(Rs. Crs.)

| S.No. | Station | Capacity (MW) | Fixed Cost |
|-------|--|----------------|----------------|
| | APGENCO | | |
| | THERMAL | | |
| 1 | VTPS I | 420.00 | 155.58 |
| 2 | VTPS II | 420.00 | 155.58 |
| 3 | VTPS III | 420.00 | 155.58 |
| 4 | VTPS IV | 500.00 | 519.86 |
| 5 | RTPP I | 420.00 | 219.53 |
| 6 | RTPP Stage-II | 420.00 | 437.81 |
| 7 | RTPP Stage-III (1) | 210.00 | 289.00 |
| 8 | KTPS A | 240.00 | 117.55 |
| 9 | KTPS B | 240.00 | 117.55 |
| 10 | KTPS C | 240.00 | 117.55 |
| 11 | KTPS D | 500.00 | 214.03 |
| 12 | KTPS Stage VI (2) | 500.00 | 343.16 |
| 13 | RTS B | 62.50 | 48.74 |
| 14 | Kakatiya Thermal Power Plant Stage I | 500.00 | 649.00 |
| | TOTAL THERMAL | 5092.50 | 3540.50 |
| | HYDEL | | |
| 15 | MACHKUND PH AP Share | 84.00 | 13.50 |
| 16 | TUNGBHADRA PH AP Share | 57.60 | 9.25 |
| 17 | Upper Sileru (USR) PH | 240.00 | 42.57 |
| 18 | Lower Sileru (LSR) PH | 460.00 | 81.59 |
| 19 | DONKARAYI (*Small Hydel) | 25.00 | 7.99 |
| 20 | SSLM Right Bank PH | 770.00 | 157.62 |
| 21 | Nagarjuna Sagar PH (NSPH) | 815.60 | 140.90 |
| 22 | NSRCPH | 90.00 | 15.55 |
| 23 | NSLCPH | 60.00 | 10.37 |
| 24 | POCHAMPAD PH (*Small Hydel) | 27.00 | 15.74 |
| 25 | NIZAMSAGAR PH (*Small Hydel) | 10.00 | 4.56 |
| 26 | PABM (*Small Hydel) | 20.00 | 9.12 |
| 27 | MINI HYDRO&OTHERS | 14.16 | 9.25 |
| 28 | SINGUR (*Small Hydel) | 15.00 | 6.83 |
| 29 | SSLM Left Bank PH (3) | 900.00 | 384.23 |
| 30 | Priyadarshini Jurala H. E. Project- AP Share | 234.00 | 98.74 |
| 31 | Pochampadu-IV (New project) | 9.00 | - |
| | TOTAL HYDRO | 3831.36 | 1007.80 |
| | TOTAL APGENCO | 8923.86 | 4548.30 |

| | |
|-------|--|
| Note: | (1) Fixed cost was considered for FY 2011-12 taking COD on 10/02/2011. |
| | (2) Fixed cost for 7 months was considered. |
| | (3) Capital cost of Rs 2321.20 Crs approved by planning commission was considered provisionally. |

ANNEXURE- G(I)
ALL DISCOMS : POWER PURCHASE COSTS FOR FY 2011-12

| Source of Power | Load Dispatch (MU) | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|--------------------|----------------------|-------------------------------|--|----------------------|--------------------------|
| APGENCO | 40671.26 | 4638.13 | 4784.78 | 105.47 | 9528.38 | 2.34 |
| Thermal | 33008.51 | 3630.33 | 4784.78 | 68.64 | 8483.75 | 2.57 |
| Hydel | 7662.75 | 1007.80 | 0.00 | 36.83 | 1044.63 | 1.36 |
| CGS excl. NTPC Simhadri | 13048.78 | 633.07 | 1666.00 | 15.19 | 2314.26 | 1.77 |
| NTPC-Simhadri Stage I&II | 9393.70 | 824.87 | 1481.00 | 10.85 | 2316.72 | 2.47 |
| APGPCL I & II | 278.70 | 24.11 | 49.44 | 0.00 | 73.55 | 2.64 |
| IPPs | 17291.73 | 1609.41 | 3127.25 | 0.66 | 4737.32 | 2.74 |
| NCE | 2934.07 | 0.00 | 1029.13 | 0.00 | 1029.13 | 3.51 |
| Others | 329.07 | 46.95 | 191.27 | 3.00 | 241.22 | 7.33 |
| Other Short Term sources | 3433.68 | 0.00 | 1888.53 | 0.00 | 1888.53 | 5.50 |
| Total | 87380.99 | 7776.54 | 14217.40 | 135.17 | 22129.11 | 2.53 |

ANNEXURE- G(II)

As approved by APERC

| Source of Power | Load Dispatch | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, (Rs. Crs) | Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|--------------------------|
| APGENCO | 41246.42 | 4548.30 | 4784.78 | 35.55 | 69.92 | 9438.55 | 2.29 |
| Thermal | 33008.51 | 3540.50 | 4784.78 | 35.55 | 33.09 | 8393.92 | 2.54 |
| Hydel | 8237.91 | 1007.80 | 0.00 | 0.00 | 36.83 | 1044.63 | 1.27 |
| CGS excl. NTPC Simhadri | 13048.78 | 633.07 | 1666.00 | 15.19 | 0.00 | 2314.26 | 1.77 |
| NTPC-Simhadri Stage I&II | 9393.70 | 824.87 | 1481.00 | 10.85 | 0.00 | 2316.72 | 2.47 |
| APGPCL I & II | 250.52 | 24.11 | 44.02 | 0.00 | 0.00 | 68.13 | 2.72 |
| IPPs | 15198.64 | 1703.92 | 2699.27 | 0.66 | 0.00 | 4403.85 | 2.90 |
| NCE | 2934.07 | 0.00 | 1029.13 | 0.00 | 0.00 | 1029.13 | 3.51 |
| Others | 164.69 | 46.95 | 90.68 | 0.00 | 3.00 | 140.63 | 8.54 |
| Other Short Term sources | 1375.84 | 0.00 | 756.71 | 0.00 | 0.00 | 756.71 | 5.50 |
| Total | 83612.66 | 7781.22 | 12551.59 | 62.25 | 72.92 | 20467.98 | 2.45 |

ANNEXURE G(III)

EPDCL : POWER PURCHASE COSTS FOR FY 2011-12

As filed by DISCOM

| Source of Power | Load Dispatch (MU) | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------------------|-----------------------------|--------------------------------------|---|-----------------------------|---------------------------------|
| APGENCO | 6426.06 | 732.82 | 756.00 | 16.66 | 1505.49 | 2.34 |
| Thermal | 5215.34 | 573.59 | 756.00 | 10.85 | 1340.43 | 2.57 |
| Hydel | 1210.71 | 159.23 | 0.00 | 5.82 | 165.05 | 1.36 |
| CGS excl. NTPC Simhadri | 2061.71 | 100.02 | 263.23 | 2.40 | 365.65 | 1.77 |
| NTPC-Simhadri Stage I&II | 1484.20 | 130.33 | 234.00 | 1.71 | 366.04 | 2.47 |
| APGPCL I & II | 44.03 | 3.81 | 7.81 | 0.00 | 11.62 | 2.64 |
| IPPs | 2732.09 | 254.29 | 494.10 | 0.10 | 748.50 | 2.74 |
| NCE | 512.23 | 0.00 | 180.29 | 0.00 | 180.29 | 3.52 |
| Others | 329.07 | 46.95 | 191.27 | 3.00 | 241.22 | 7.33 |
| Total | 13589.40 | 1268.22 | 2126.71 | 23.88 | 3418.81 | 2.52 |
| Other Short Term sources | 542.52 | 0.00 | 298.39 | 0.00 | 298.39 | 5.50 |
| D-to-D (Pool) Purchase | 466.86 | 0.00 | 137.33 | 0.00 | 137.33 | 2.94 |
| D-to-D (Pool) Sales | -283.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grand Total | 14315.04 | 1268.22 | 2562.42 | 23.88 | 3854.53 | 2.69 |

As approved by APERC

| Source of Power | Load Dispatch | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------|----------------------|-------------------------------|--|----------------------|--------------------------|
| APGENCO | 6516.93 | 718.63 | 756.00 | 16.66 | 1491.29 | 2.29 |
| Thermal | 5215.34 | 559.40 | 756.00 | 10.85 | 1326.24 | 2.54 |
| Hydel | 1301.59 | 159.23 | 0.00 | 5.82 | 165.05 | 1.27 |
| CGS excl. NTPC Simhadri | 2061.71 | 100.02 | 263.23 | 2.40 | 365.65 | 1.77 |
| NTPC-Simhadri Stage I&II | 1484.20 | 130.33 | 234.00 | 1.71 | 366.04 | 2.47 |
| APGPCL I & II | 39.58 | 3.81 | 6.96 | 0.00 | 10.77 | 2.72 |
| IPPs | 2401.39 | 269.22 | 426.49 | 0.10 | 695.81 | 2.90 |
| NCE | 512.23 | 0.00 | 180.29 | 0.00 | 180.29 | 3.52 |
| Others | 164.69 | 46.95 | 90.68 | 3.00 | 140.63 | 8.54 |
| Other Short Term sources | 217.38 | 0.00 | 119.56 | 0.00 | 119.56 | 5.50 |
| Total | 13398.11 | 1268.96 | 2077.20 | 23.88 | 3370.04 | 2.52 |
| D-to-D (Pool) Purchase | 229.79 | 21.38 | 44.23 | 0.00 | 65.61 | 2.86 |
| NCE Cost adjustment | -32.90 | 0.00 | -0.95 | 0.00 | -0.95 | 0.29 |
| Grand Total | 13627.90 | 1290.35 | 2120.47 | 23.88 | 3434.70 | 2.52 |

ANNEXURE G(IV)

NPDCCL : POWER PURCHASE COSTS FOR FY 2011-12

As filed by DISCOM

| Source of Power | Load Dispatch (MU) | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost /unit (Rs./ unit) |
|--------------------------|---------------------------|-----------------------------|--------------------------------------|---|-----------------------------|-----------------------------------|
| APGENCO | 6454.53 | 736.07 | 759.35 | 16.74 | 1512.16 | 2.34 |
| Thermal | 5238.45 | 576.13 | 759.35 | 10.89 | 1346.37 | 2.57 |
| Hydel | 1216.08 | 159.94 | 0.00 | 5.84 | 165.78 | 1.36 |
| CGS excl. NTPC Simhadri | 2070.84 | 100.47 | 264.39 | 2.41 | 367.27 | 1.77 |
| NTPC-Simhadri Stage I&II | 1490.78 | 130.91 | 235.04 | 1.72 | 367.66 | 2.47 |
| APGPCL I & II | 44.23 | 3.83 | 7.85 | 0.00 | 11.67 | 2.64 |
| IPPs | 2744.20 | 255.41 | 496.29 | 0.10 | 751.81 | 2.74 |
| NCE | 430.08 | 0.00 | 137.65 | 0.00 | 137.65 | 3.20 |
| Others | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 13234.66 | 1226.69 | 1900.57 | 20.98 | 3148.23 | 2.38 |
| Other Short Term sources | 544.93 | 0.00 | 299.71 | 0.00 | 299.71 | 5.50 |
| D-to-D (Pool) Purchase | 538.39 | 0.00 | 158.37 | 0.00 | 158.37 | 2.94 |
| D-to-D (Pool) Sales | -1075.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grand Total | 13242.73 | 1226.69 | 2358.65 | 20.98 | 3606.31 | 2.72 |

As approved by APERC

| Source of Power | Load Dispatch | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------|----------------------|-------------------------------|--|----------------------|--------------------------|
| APGENCO | 6545.81 | 721.82 | 759.35 | 16.74 | 1497.90 | 2.29 |
| Thermal | 5238.45 | 561.88 | 759.35 | 10.89 | 1332.12 | 2.54 |
| Hydel | 1307.36 | 159.94 | 0.00 | 5.84 | 165.78 | 1.27 |
| CGS excl. NTPC Simhadri | 2070.84 | 100.47 | 264.39 | 2.41 | 367.27 | 1.77 |
| NTPC-Simhadri Stage I&II | 1490.78 | 130.91 | 235.04 | 1.72 | 367.66 | 2.47 |
| APGPCL I & II | 39.76 | 3.83 | 6.99 | 0.00 | 10.81 | 2.72 |
| IPPs | 2412.02 | 270.41 | 428.37 | 0.10 | 698.89 | 2.90 |
| NCE | 430.08 | 0.00 | 137.65 | 0.00 | 137.65 | 3.20 |
| Others | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Short Term sources | 218.35 | 0.00 | 120.09 | 0.00 | 120.09 | 5.50 |
| Total | 13207.63 | 1227.43 | 1951.88 | 20.98 | 3200.28 | 2.42 |
| D-to-D (Pool) Purchase | -1086.25 | -101.09 | -209.06 | 0.00 | -310.15 | 2.86 |
| NCE Cost adjustment | -7.78 | 0.00 | -0.22 | 0.00 | -0.22 | 0.29 |
| Grand Total | 12121.38 | 1126.34 | 1742.59 | 20.98 | 2889.91 | 2.38 |

ANNEXURE G(V)

SPDCL : POWER PURCHASE COSTS FOR FY 2011-12

As filed by DISCOM

| Source of Power | Load Dispatch (MU) | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------------------|-----------------------------|--------------------------------------|---|-----------------------------|---------------------------------|
| APGENCO | 9057.49 | 1032.91 | 1065.57 | 23.49 | 2121.97 | 2.34 |
| Thermal | 7350.99 | 808.47 | 1065.57 | 15.29 | 1889.33 | 2.57 |
| Hydel | 1706.49 | 224.44 | 0.00 | 8.20 | 232.64 | 1.36 |
| CGS excl. NTPC Simhadri | 2905.96 | 140.98 | 371.02 | 3.38 | 515.38 | 1.77 |
| NTPC-Simhadri Stage I&II | 2091.98 | 183.70 | 329.82 | 2.42 | 515.93 | 2.47 |
| APGPCL I & II | 62.07 | 5.37 | 11.01 | 0.00 | 16.38 | 2.64 |
| IPPs | 3850.87 | 358.42 | 696.44 | 0.15 | 1055.00 | 2.74 |
| NCE | 1205.05 | 0.00 | 440.55 | 0.00 | 440.55 | 3.66 |
| Others | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 19173.41 | 1721.38 | 2914.41 | 29.44 | 4665.22 | 2.43 |
| Other Short Term sources | 764.68 | 0.00 | 420.57 | 0.00 | 420.57 | 5.50 |
| D-to-D (Pool) Purchase | 469.79 | 0.00 | 138.19 | 0.00 | 138.19 | 2.94 |
| D-to-D (Pool) Sales | -321.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grand Total | 20086.52 | 1721.38 | 3473.17 | 29.44 | 5223.98 | 2.60 |

As approved by APERC

| Source of Power | Load Dispatch | Fixed Cost (Rs. Crs) | Total Variable Cost (Rs. Crs) | Incentive, Income Tax & Others (Rs. Crs) | Total Cost (Rs. Crs) | Avg Cost/unit (Rs./unit) |
|--------------------------|---------------|----------------------|-------------------------------|--|----------------------|--------------------------|
| APGENCO | 9185.58 | 1012.91 | 1065.57 | 23.49 | 2101.97 | 2.29 |
| Thermal | 7350.99 | 788.47 | 1065.57 | 15.29 | 1869.33 | 2.54 |
| Hydel | 1834.58 | 224.44 | 0.00 | 8.20 | 232.64 | 1.27 |
| CGS excl. NTPC Simhadri | 2905.96 | 140.98 | 371.02 | 3.38 | 515.38 | 1.77 |
| NTPC-Simhadri Stage I&II | 2091.98 | 183.70 | 329.82 | 2.42 | 515.93 | 2.47 |
| APGPCL I & II | 55.79 | 5.37 | 9.80 | 0.00 | 15.17 | 2.72 |
| IPPs | 3384.74 | 379.46 | 601.13 | 0.15 | 980.74 | 2.90 |
| NCE | 1205.05 | 0.00 | 440.55 | 0.00 | 440.55 | 3.66 |
| Others | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Short Term sources | 306.40 | 0.00 | 168.52 | 0.00 | 168.52 | 5.50 |
| Total | 19135.49 | 1722.42 | 2986.41 | 29.44 | 4738.26 | 2.48 |
| D-to-D (Pool) Purchase | 469.76 | 43.72 | 90.41 | 0.00 | 134.13 | 2.86 |
| NCE Cost adjustment | -514.45 | 0.00 | -14.84 | 0.00 | -14.84 | 0.29 |
| Grand Total | 19605.25 | 1766.14 | 3061.98 | 29.44 | 4857.56 | 2.48 |

ANNEXURE G(VI)
SUMMARY OF VARIABLE COST FOR FSA CALCULATIONS

| Month / Quarter | Purchase /Requirement as EHT input (Mus) | Total despatchfor DISCOMs Sales only (MUs) | Total Variable Cost (Rs. Crs.) | Variable Cost (Rs. Per kWh) |
|------------------------|---|---|---------------------------------------|------------------------------------|
| Apr-11 | 7201.87 | 7201.87 | 1319.56 | 1.8323 |
| May-11 | 6828.46 | 6828.46 | 1123.82 | 1.6458 |
| Jun-11 | 6323.22 | 6323.22 | 980.62 | 1.5508 |
| QRT 1 | 20353.55 | 20353.55 | 3424.01 | 1.6823 |
| Jul-11 | 6545.45 | 6545.45 | 933.72 | 1.4265 |
| Aug-11 | 6866.77 | 6866.77 | 881.43 | 1.2836 |
| Sep-11 | 6578.01 | 6578.01 | 820.88 | 1.2479 |
| QRT 2 | 19990.23 | 19990.23 | 2636.04 | 1.3187 |
| Oct-11 | 7114.65 | 7114.65 | 937.33 | 1.3175 |
| Nov-11 | 6644.72 | 6644.72 | 957.94 | 1.4416 |
| Dec-11 | 6866.56 | 6866.56 | 984.95 | 1.4344 |
| QRT 3 | 20625.94 | 20625.94 | 2880.21 | 1.3964 |
| Jan-12 | 7219.67 | 7219.67 | 1047.31 | 1.4506 |
| Feb-12 | 7408.11 | 7408.11 | 1231.02 | 1.6617 |
| Mar-12 | 8015.15 | 8015.15 | 1333.03 | 1.6631 |
| QRT 4 | 22642.93 | 22642.93 | 3611.35 | 1.5949 |
| Total | 83612.66 | 83612.66 | 12551.60 | 1.5012 |

ANNEXURE H(I)

ALL DISCOMs : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

Sales Forecast 2011-12 All Discoms
Sales (MU)

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| LT Category | 3679.76 | 3568.01 | 3140.10 | 3328.09 | 3528.76 | 3315.35 | 3804.17 | 3347.38 | 3480.28 | 3649.77 | 3694.89 | 4271.05 | 42807.62 |
| Category I Domestic | 1473.70 | 1539.82 | 1452.69 | 1355.92 | 1363.78 | 1381.36 | 1444.42 | 1260.28 | 1221.69 | 1219.30 | 1287.77 | 1455.51 | 16456.23 |
| Category II - Non-domestic/Commercial | 384.27 | 402.90 | 384.55 | 353.43 | 358.16 | 352.88 | 365.24 | 334.62 | 325.23 | 328.18 | 351.19 | 396.23 | 4336.89 |
| Category III (A & B) - Industrial | 251.63 | 248.16 | 249.31 | 237.37 | 215.51 | 212.47 | 206.66 | 230.40 | 246.21 | 264.31 | 263.67 | 251.63 | 2877.32 |
| Category IV - Cottage Industries & Dhobighats | 4.39 | 4.27 | 4.88 | 4.51 | 4.53 | 5.70 | 4.36 | 4.19 | 4.66 | 4.84 | 5.41 | 4.89 | 56.63 |
| Category V - Irrigation and Agriculture | 1374.30 | 1184.39 | 867.36 | 1194.10 | 1399.68 | 1179.58 | 1547.44 | 1294.58 | 1447.00 | 1590.18 | 1555.14 | 1931.41 | 16565.16 |
| Category VI - Local Bodies, St. Lighting & PWS | 174.66 | 171.95 | 166.15 | 166.25 | 169.12 | 165.21 | 218.61 | 206.58 | 219.10 | 225.02 | 213.78 | 211.56 | 2307.99 |
| Category VII - General Purpose | 15.10 | 15.30 | 14.07 | 15.35 | 16.77 | 17.27 | 16.34 | 15.62 | 15.49 | 16.99 | 16.11 | 17.81 | 192.22 |
| Category VIII-Temporary Supply | 0.44 | 0.33 | 0.21 | 0.22 | 0.24 | 0.17 | 0.37 | 0.32 | 0.26 | 0.36 | 1.11 | 1.06 | 5.11 |
| LT V(A) (i) Salt farming units with connected load upto 15HP | 0.68 | 0.42 | 0.44 | 0.45 | 0.43 | 0.12 | 0.07 | 0.15 | 0.06 | 0.04 | 0.17 | 0.36 | 3.41 |
| LT V(A) (ii) Rural Horticulture Nurseries | 0.07 | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.60 |
| Category VII (B) - Religious Places up to 200 | 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 |
| >200 | 0.43 | 0.36 | 0.33 | 0.39 | 0.43 | 0.47 | 0.48 | 0.48 | 0.44 | 0.39 | 0.39 | 0.43 | 5.02 |
| | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.14 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 1.03 |

ANNEXURE H(I)
ALL DISCOMs : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Category II - Non-Domestic/Commercial | 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 |
| 0-50 | 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 |
| 51-100 | 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 |
| >100 | 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 |
| LT-II(B) Advertising Hoardings | | | | | | | | | | | | | |
| HT Category at 11 KV | 795.56 | 700.52 | 714.18 | 692.62 | 718.21 | 716.87 | 670.30 | 691.41 | 687.58 | 719.90 | 782.11 | 751.39 | 8640.64 |
| HT-I Industry Segregated | 443.30 | 399.75 | 406.98 | 399.67 | 392.81 | 396.88 | 351.09 | 396.60 | 411.05 | 427.21 | 449.77 | 420.50 | 4895.60 |
| Lights & Fans | 3.96 | 3.85 | 4.04 | 4.00 | 3.95 | 4.15 | 3.06 | 3.61 | 3.65 | 3.68 | 3.99 | 3.99 | 45.91 |
| Colony consumption | 0.19 | 0.19 | 0.24 | 0.20 | 0.20 | 0.21 | 0.19 | 0.18 | 0.16 | 0.15 | 0.14 | 0.19 | 2.24 |
| Seasonal Industries | 0.44 | 0.25 | 0.23 | 0.17 | 0.13 | 0.13 | 0.04 | 0.05 | 0.06 | 0.07 | 0.19 | 0.23 | 2.01 |
| HT-I (B) Ferro-Alloys | 2.01 | 1.71 | 1.86 | 1.75 | 1.85 | 1.01 | 0.86 | 0.95 | 1.65 | 1.89 | 1.79 | 1.82 | 19.14 |
| HT-II Industrial Non-Segregated | 169.40 | 177.39 | 179.78 | 162.19 | 159.30 | 155.61 | 162.01 | 161.50 | 141.93 | 142.37 | 148.11 | 152.37 | 1911.97 |
| 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 |
| HT-VI Townships and Residential Colonies | 17.91 | 17.17 | 17.86 | 16.16 | 16.06 | 16.26 | 16.34 | 16.45 | 15.53 | 16.29 | 17.11 | 16.97 | 200.11 |
| RESCOs | 107.08 | 76.59 | 80.11 | 85.37 | 92.59 | 90.36 | 86.59 | 89.24 | 89.19 | 102.50 | 105.83 | 105.55 | 1111.00 |
| Temporary Supply | 0.55 | 0.56 | 0.55 | 0.54 | 0.56 | 0.51 | 0.50 | 0.47 | 0.42 | 0.36 | 0.40 | 0.34 | 5.78 |
| Composite Public Water Supply Schemes | 4.55 | 4.65 | 4.22 | 4.16 | 4.40 | 4.61 | 4.05 | 2.50 | 2.56 | 2.71 | 3.56 | 2.70 | 44.67 |
| 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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | 13.79 | 14.45 | 15.13 | 14.92 | 13.60 | 12.58 | 10.63 | 11.51 | 13.10 | 13.69 | 14.91 | 13.44 | 161.76 |

ANNEXURE H(I)
ALL DISCOMs : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| HT-I Industrial Time of Day Incentive | | | | | | | | | | | | | 0.00 |
| HT Category at 33 KV | 809.42 | 739.99 | 748.58 | 741.50 | 762.59 | 739.96 | 746.14 | 795.64 | 819.62 | 843.54 | 870.00 | 867.33 | 9484.30 |
| HT-I Industry Segregated | 683.78 | 613.03 | 617.26 | 616.69 | 627.22 | 599.61 | 619.11 | 660.68 | 686.39 | 702.80 | 736.81 | 742.38 | 7905.77 |
| Lights & Fans | 4.26 | 2.61 | 1.93 | 1.70 | 1.60 | 1.54 | 4.21 | 2.40 | 1.93 | 1.55 | 1.96 | 4.10 | 29.78 |
| Colony consumption | 0.29 | 0.30 | 0.26 | 0.28 | 0.22 | 0.73 | 0.23 | 0.25 | 0.25 | 0.22 | 0.23 | 0.29 | 3.55 |
| Seasonal Industries | 1.03 | 0.10 | 0.08 | 0.03 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 |
| HT-I (B) Ferro-Alloys | 38.46 | 35.60 | 37.24 | 36.24 | 38.94 | 42.49 | 38.69 | 47.82 | 44.84 | 49.39 | 46.86 | 39.81 | 496.38 |
| HT-II Industrial Non-Segregated | 49.18 | 51.52 | 54.92 | 49.18 | 44.64 | 47.00 | 40.19 | 40.86 | 40.92 | 38.07 | 39.74 | 39.25 | 535.49 |
| 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 |
| HT-VI Townships and Residential Colonies | 6.17 | 4.76 | 3.94 | 4.34 | 4.26 | 3.32 | 5.24 | 4.56 | 4.54 | 4.76 | 5.16 | 4.98 | 56.04 |
| 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 | 0.00 | 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 | 1.29 | 1.38 | 1.42 | 1.34 | 1.71 | 1.70 | 0.93 | 0.94 | 0.97 | 0.97 | 0.04 | 0.04 | 12.74 |
| 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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | 23.34 | 24.43 | 25.18 | 24.92 | 25.00 | 22.19 | 16.83 | 18.51 | 20.88 | 23.12 | 24.37 | 22.26 | 271.04 |
| HT-I Industrial Time of Day Incentive | | | | | | | | | | | | | 0.00 |
| HT Category at 132 KV | 771.21 | 729.56 | 725.74 | 752.39 | 771.40 | 772.02 | 762.18 | 767.00 | 802.72 | 877.00 | 909.81 | 848.71 | 9489.75 |
| HT-I Industry Segregated | 492.21 | 436.49 | 433.96 | 460.45 | 469.67 | 468.77 | 454.82 | 453.10 | 473.71 | 514.71 | 560.59 | 525.77 | 5744.25 |
| Lights & Fans | 1.75 | 3.34 | 2.62 | 5.87 | 6.16 | 8.33 | 7.48 | 6.62 | 4.80 | 2.20 | 5.34 | 1.79 | 56.30 |
| Colony consumption | 2.44 | 2.44 | 2.38 | 2.25 | 2.16 | 2.73 | 2.06 | 2.09 | 2.09 | 2.12 | 2.12 | 2.32 | 27.20 |

ANNEXURE H(I)
ALL DISCOMs : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 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 | 75.77 | 70.94 | 74.24 | 71.97 | 75.56 | 75.93 | 80.57 | 78.99 | 77.75 | 79.55 | 80.82 | 71.45 | 913.53 |
| HT-II Industrial Non-Segregated | 16.02 | 16.12 | 15.91 | 14.31 | 14.10 | 14.43 | 14.96 | 15.23 | 13.16 | 12.99 | 14.87 | 15.79 | 177.91 |
| 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 |
| HT-V Railway Traction | 148.00 | 142.87 | 142.73 | 140.09 | 145.58 | 144.26 | 137.33 | 144.75 | 147.46 | 155.65 | 160.99 | 141.45 | 1751.18 |
| HT-VI Townships and Residential Colonies | 9.80 | 9.93 | 9.22 | 7.44 | 6.98 | 8.24 | 7.22 | 7.20 | 4.40 | 6.57 | 7.40 | 7.81 | 92.21 |
| 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 | 0.00 | 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-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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | 13.99 | 14.37 | 11.70 | 13.87 | 12.25 | 10.58 | 9.01 | 8.91 | 9.82 | 11.84 | 12.77 | 10.72 | 139.82 |
| HT-I Industrial Time of Day Incentive | | | | | | | | | | | | | 0.00 |
| Total | 6055.94 | 5738.09 | 5328.60 | 5514.60 | 5780.96 | 5544.21 | 5982.79 | 5601.43 | 5790.20 | 6090.20 | 6256.81 | 6738.48 | 70422.30 |

ANNEXURE H(II)

CPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

Sales Forecast 2011-12 CPDCL

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| HT-I (B) Ferro-Alloys | 22.68 | 19.60 | 19.77 | 18.89 | 20.39 | 18.37 | 23.34 | 21.54 | 21.02 | 20.77 | 21.02 | 21.34 | 248.74 |
| HT-II Industrial Non-Segregated | 10.83 | 11.45 | 10.86 | 9.45 | 9.15 | 8.97 | 10.83 | 11.11 | 9.44 | 9.48 | 11.39 | 11.10 | 124.07 |
| 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 |
| HT-V Railway Traction | 15.64 | 15.74 | 16.41 | 15.10 | 14.79 | 14.48 | 13.79 | 16.53 | 14.46 | 15.98 | 17.39 | 14.23 | 184.55 |
| HT-VI Townships and Residential Colonies | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 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-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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 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 | 0.00 |
| HT-I Industrial Time of Day Incentive | | | | | | | | | | | | | 0.00 |
| Total | 2824.90 | 2627.39 | 2432.91 | 2555.59 | 2674.50 | 2564.82 | 2613.59 | 2569.98 | 2595.37 | 2683.69 | 2762.94 | 2999.31 | 31904.99 |

ANNEXURE H(III)**EPDCL : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12****Sales Forecast 2011-12 EPDCL**

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| LT Category | 548.81 | 590.89 | 548.64 | 496.94 | 511.86 | 498.96 | 619.24 | 503.06 | 518.50 | 510.99 | 530.30 | 556.11 | 6434.30 |
| Category I Domestic | 273.90 | 318.82 | 328.55 | 288.67 | 294.21 | 293.75 | 356.42 | 264.20 | 246.59 | 221.21 | 234.35 | 249.60 | 3370.25 |
| Category II - Non-domestic/Commercial | | 69.94 | 70.56 | 58.09 | 62.87 | 59.13 | 68.89 | 55.74 | 55.16 | 51.52 | 57.45 | 57.17 | 729.09 |
| Category III (A & B) - Industrial | 38.77 | 42.20 | 39.05 | 35.15 | 30.03 | 30.08 | 30.79 | 32.33 | 31.33 | 40.25 | 42.05 | 34.92 | 426.94 |
| Category IV - Cottage Industries & Dhobighats | | 0.17 | 0.26 | 0.14 | 0.16 | 0.16 | 0.14 | 0.18 | 0.15 | 0.14 | 0.15 | 0.14 | 1.93 |
| Category V - Irrigation and Agriculture | | 132.24 | 82.82 | 86.99 | 96.22 | 88.95 | 133.20 | 117.78 | 155.20 | 168.73 | 166.71 | 184.83 | 1558.20 |
| Category VI - Local Bodies, St. Lighting & PWS | | 24.76 | 24.86 | 24.85 | 25.08 | 23.23 | 26.15 | 29.18 | 26.74 | 26.15 | 26.57 | 26.14 | 309.27 |
| Category VII - General Purpose | 2.82 | 2.32 | 2.17 | 2.58 | 2.80 | 3.11 | 3.11 | 3.11 | 2.83 | 2.51 | 2.53 | 2.78 | 32.67 |
| Category VIII-Temporary Supply | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 | 0.05 | 0.03 | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 | 0.46 |
| LT V(A) (i) Salt farming units with connected load upto 15HP | | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.33 |
| LT V(A) (ii) Rural Horticulture Nurseries | | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.28 |
| Category VII (B) - Religious Places | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| up to 200 | 0.42 | 0.35 | 0.32 | 0.39 | 0.42 | 0.47 | 0.46 | 0.46 | 0.42 | 0.38 | 0.38 | 0.41 | 4.88 |
| >200 | 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 |
| Category II - Non-Domestic/Commercial | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-50 | 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 |
| 51-100 | 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 |
| >100 | 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 |
| LT-II(B) Advertising Hoardings | | | | | | | | | | | | | 0.00 |
| HT Category at 11 KV | 170.71 | 132.98 | 138.10 | 130.26 | 161.27 | 162.41 | 154.25 | 139.62 | 131.39 | 133.96 | 161.71 | 158.70 | 1775.36 |
| HT-I Industry Segregated | 90.17 | 80.82 | 85.08 | 83.93 | 85.42 | 86.95 | 75.35 | 85.60 | 85.24 | 86.50 | 85.10 | 79.49 | 1009.67 |
| Lights & Fans | 1.56 | 1.58 | 1.61 | 1.61 | 1.57 | 1.59 | 1.58 | 1.84 | 1.51 | 1.56 | 1.60 | 1.45 | 19.05 |
| Colony consumption | 0.07 | 0.08 | 0.11 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.07 | 0.06 | 0.07 | 0.09 | 1.05 |
| Seasonal Industries | 0.42 | 0.13 | 0.08 | 0.08 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.19 | 0.23 | 1.44 |
| 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-II Industrial Non-Segregated | 26.48 | 25.98 | 27.59 | 25.47 | 25.01 | 25.54 | 26.92 | 27.94 | 23.58 | 22.54 | 23.53 | 25.95 | 306.51 |

| | | | | | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| HT-IV A Govt. Lift Irrigation Schemes | | 0.24 | 0.23 | 0.48 | 27.18 | 27.20 | 27.22 | 0.97 | 0.48 | 0.78 | 27.16 | 27.07 | 165.72 |
| 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 | 1.20 |
| HT-VI Townships and Residential Colonies | | 2.99 | 3.14 | 2.54 | 2.70 | 2.52 | 4.23 | 3.88 | 3.48 | 3.39 | 3.66 | 3.72 | 39.11 |
| RESCOs | 21.52 | 20.32 | 19.34 | 15.00 | 18.48 | 17.53 | 17.80 | 18.20 | 16.06 | 17.94 | 19.19 | 19.61 | 221.00 |
| 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 | 0.00 |
| Time of Day tariff (6 p.m. to 10 p.m.) | | | | | | | | | | | | | 0.00 |
| Time of Day incentive (12 a.m. to 4 a.m.) | | | | | | | | | | | | | 0.00 |
| HT CPW Schemes | 0.85 | 0.79 | 0.85 | 0.92 | 0.65 | 0.81 | 0.88 | 0.93 | 0.87 | 0.99 | 1.09 | 0.99 | 10.60 |
| RESCO Anakapalli | | | | | | | | | | | | | 0.00 |
| RESCO Cheepurupalli | | | | | | | | | | | | | 0.00 |
| HT Category at 33 KV | 97.98 | 86.60 | 89.60 | 91.38 | 100.53 | 103.31 | 91.18 | 110.36 | 105.67 | 97.38 | 116.85 | 111.44 | 1202.27 |
| HT-I Industry Segregated | 74.68 | 64.37 | 65.77 | 69.80 | 77.02 | 75.65 | 67.27 | 84.75 | 83.46 | 74.80 | 95.65 | 90.61 | 923.84 |
| Lights & Fans | 1.14 | 0.99 | 1.13 | 1.18 | 0.98 | 0.97 | 0.47 | 0.94 | 0.48 | 0.39 | 0.47 | 1.71 | 10.83 |
| Colony consumption | 0.04 | 0.04 | 0.06 | 0.05 | 0.03 | 0.03 | 0.04 | 0.05 | 0.03 | 0.02 | 0.03 | 0.03 | 0.46 |
| Seasonal Industries | 1.03 | 0.10 | 0.08 | 0.03 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 |
| HT-I (B) Ferro-Alloys | 9.74 | 9.36 | 9.84 | 9.28 | 10.44 | 12.70 | 9.76 | 9.84 | 9.36 | 10.51 | 10.80 | 8.56 | 120.19 |
| HT-II Industrial Non-Segregated | 10.90 | 11.34 | 12.25 | 10.46 | 7.64 | 7.87 | 10.04 | 10.88 | 11.24 | 9.99 | 8.42 | 9.06 | 120.11 |
| HT-IV A Govt. Lift Irrigation Schemes | | 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 | 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-VI Townships and Residential Colonies | | 0.38 | 0.42 | 0.37 | 0.33 | 0.26 | 0.20 | 0.22 | 0.23 | 0.24 | 0.36 | 0.36 | 3.78 |
| RESCOs | 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 | 0.00 |
| Time of Day tariff (6 p.m. to 10 p.m.) | | | | | | | | | | | | | 0.00 |
| Time of Day incentive (12 a.m. to 4 a.m.) | | | | | | | | | | | | | 0.00 |
| HT Category at 132 KV | 187.10 | 177.32 | 181.09 | 196.97 | 212.74 | 239.52 | 212.52 | 224.64 | 211.87 | 192.43 | 221.80 | 189.76 | 2447.76 |
| HT-I Industry Segregated | 78.00 | 71.42 | 68.33 | 84.47 | 94.93 | 116.89 | 95.36 | 105.42 | 95.29 | 76.80 | 101.60 | 84.51 | 1073.02 |
| Lights & Fans | 1.72 | 3.31 | 2.51 | 5.83 | 6.09 | 8.22 | 7.48 | 6.62 | 4.80 | 2.20 | 5.34 | 1.79 | 55.90 |
| Colony consumption | 1.71 | 1.74 | 1.73 | 1.71 | 1.70 | 2.29 | 1.61 | 1.63 | 1.61 | 1.61 | 1.60 | 1.63 | 20.57 |
| 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 | 53.09 | 51.34 | 54.48 | 53.08 | 55.17 | 57.56 | 57.22 | 57.45 | 56.73 | 58.78 | 59.80 | 50.10 | 664.79 |
| HT-II Industrial Non-Segregated | 5.18 | 4.53 | 4.88 | 4.62 | 4.80 | 5.32 | 4.06 | 4.06 | 3.62 | 3.45 | 3.42 | 3.91 | 51.84 |
| HT-IV A Govt. Lift Irrigation 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-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 |
| HT-V Railway Traction | 47.39 | 44.99 | 49.17 | 47.26 | 50.06 | 49.24 | 46.79 | 49.47 | 49.82 | 49.60 | 50.05 | 47.82 | 581.64 |

| | | | | | | | | | | | | | |
|---|----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|-----------------|
| HT-VI Townships and Residential Colonies | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Time of Day tariff (6 p.m. to 10 p.m.) | | | | | | | | | | | | | 0.00 |
| Time of Day incentive (12 a.m. to 4 a.m.) | | | | | | | | | | | | | 0.00 |
| Total | 1004.61 | 987.79 | 957.42 | 915.54 | 986.40 | 1004.19 | 1077.19 | 977.68 | 967.43 | 934.76 | 1030.66 | 1016.01 | 11859.69 |

| | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|----------|
| 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 | 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-I Industry Segregated -TOD Consumption (6PM to 10PM) | 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 Incentive(12 AM to 4 AM) | | | | | | | | | | | | | 0.00 |
| Total | 766.90 | 678.63 | 656.04 | 723.73 | 800.58 | 740.39 | 917.32 | 830.69 | 903.99 | 1025.48 | 965.24 | 1076.79 | 10085.76 |

ANNEXURE H(V)

SPDCL : CATEGORY-WISE AND MONTHLY SALES FOR FY 2011-12

Sales Forecast 2011-12 SPDCL

| Voltage and Consumer Category | Apr/11 | May/11 | Jun/11 | Jul/11 | Aug/11 | Sep/11 | Oct/11 | Nov/11 | Dec/11 | Jan/12 | Feb/12 | Mar/12 | Total |
|--|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|-----------------|
| LT Category | 970.36 | 967.86 | 838.89 | 863.08 | 883.53 | 831.35 | 1004.02 | 839.74 | 892.69 | 965.53 | 984.99 | 1141.57 | 11183.62 |
| Category I Domestic | 390.67 | 396.88 | 384.02 | 373.14 | 374.96 | 373.87 | 378.62 | 330.95 | 352.17 | 371.10 | 369.80 | 372.08 | 4468.26 |
| Category II - Non-domestic/Commercial | 91.97 | 94.46 | 90.80 | 88.00 | 89.65 | 88.37 | 89.19 | 82.25 | 87.28 | 90.88 | 91.94 | 96.70 | 1081.50 |
| Category III (A & B) - Industrial | 81.11 | 74.59 | 82.80 | 73.66 | 66.56 | 65.32 | 56.79 | 65.66 | 71.56 | 77.30 | 81.93 | 80.12 | 877.41 |
| Category IV - Cottage Industries & Dhobighats | 2.36 | 2.34 | 2.71 | 2.44 | 2.48 | 3.77 | 2.46 | 2.13 | 2.44 | 2.67 | 3.27 | 2.63 | 31.70 |
| Category V - Irrigation and Agriculture | 356.29 | 352.71 | 235.24 | 281.13 | 303.51 | 256.72 | 404.85 | 304.31 | 311.96 | 350.92 | 378.25 | 535.35 | 4071.23 |
| Category VI - Local Bodies, St. Lighting & PWS | 43.38 | 42.17 | 38.43 | 39.83 | 41.26 | 38.09 | 67.33 | 50.33 | 62.59 | 67.48 | 54.81 | 48.80 | 594.50 |
| Category VII - General Purpose | 3.76 | 4.13 | 4.32 | 4.33 | 4.60 | 5.02 | 4.47 | 3.72 | 4.43 | 4.95 | 4.64 | 5.05 | 53.44 |
| Category VIII-Temporary Supply | 0.05 | 0.08 | 0.05 | 0.04 | 0.02 | 0.00 | 0.10 | 0.12 | 0.08 | 0.09 | 0.10 | 0.39 | 1.12 |
| LT V(A) (i) Salt farming units with connected load upto 15HP | 0.65 | 0.39 | 0.43 | 0.44 | 0.41 | 0.10 | 0.04 | 0.13 | 0.03 | 0.01 | 0.13 | 0.32 | 3.07 |
| Category V(A)(ii) Rural Horticulture Nurseries | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.22 |
| Category VII (B) - Religious Places | | | | | | | | | | | | | 0.00 |
| 0-200 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.14 |
| >200 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.14 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 1.03 |
| Category II - Non-Domestic/Commercial | 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 |
| 0-50 | 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 |
| 51-100 | 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 |
| >100 | 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 |
| LT-II(B) - Adverstising Hoardings | | | | | | | | | | | | | 0.00 |
| HT Category at 11 KV | 148.99 | 141.88 | 138.63 | 140.13 | 130.61 | 124.91 | 97.80 | 109.40 | 120.80 | 132.15 | 141.34 | 143.42 | 1570.05 |

| | | | | | | | | | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 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 | 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-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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | 23.34 | 24.43 | 25.18 | 24.92 | 25.00 | 22.19 | 16.83 | 18.51 | 20.88 | 23.12 | 24.37 | 22.26 | 271.04 |
| HT-I Industrial Time of Day Incentive (12 AM to 4 AM) | | | | | | | | | | | | | 0.00 |
| HT Category at 132 KV | 148.10 | 143.20 | 116.99 | 132.23 | 121.33 | 112.23 | 108.47 | 99.41 | 113.92 | 137.12 | 147.84 | 134.12 | 1514.94 |
| HT-I Industry Segregated | 82.83 | 80.91 | 61.54 | 73.10 | 61.73 | 53.18 | 53.88 | 46.19 | 53.69 | 68.94 | 77.28 | 75.79 | 789.07 |
| Lights & Fans | 0.02 | 0.03 | 0.11 | 0.05 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 |
| Colony consumption | 0.73 | 0.70 | 0.66 | 0.54 | 0.46 | 0.44 | 0.45 | 0.46 | 0.48 | 0.51 | 0.52 | 0.69 | 6.63 |
| 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-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 | 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 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 |
| HT-V Railway Traction | 50.53 | 47.19 | 42.99 | 44.68 | 46.81 | 47.91 | 45.13 | 43.85 | 49.93 | 55.82 | 57.27 | 46.91 | 579.01 |
| HT-VI Townships and Residential Colonies | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 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-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 | 0.00 |
| HT-I Industrial Time-of-Day Tariff (6 PM to 10 PM) | 13.99 | 14.37 | 11.70 | 13.87 | 12.25 | 10.58 | 9.01 | 8.91 | 9.82 | 11.84 | 12.77 | 10.72 | 139.82 |
| HT-I Industrial Time of Day Incentive (12 AM to 4 AM) | | | | | | | | | | | | | 0.00 |
| Total | 1459.54 | 1444.27 | 1282.22 | 1319.73 | 1319.48 | 1234.81 | 1374.70 | 1223.09 | 1323.42 | 1446.27 | 1497.96 | 1646.38 | 16571.85 |

ANNEXURE - I
CPDCL: COST OF SERVICE MODEL

| CPDCL | Generation | | | | | |
|--|------------------|---|---------------------|------------------|------------------------------------|--------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Recovery Basis - Energy Sales (MU) | CoS - Rs/kWh |
| LT Cat I - Domestic | 1,263.37 | 2,114.74 | 497.84 | 1,236.36 | 6,289.37 | 1.97 |
| LT Cat II - Non-domestic | 411.70 | 701.47 | 489.09 | 407.34 | 2,030.35 | 2.01 |
| LT Cat III (A & B) - Industrial | 181.80 | 312.11 | 485.40 | 256.78 | 1,262.63 | 2.03 |
| LT Cat IV - Cottage Industries & Dhobighats | 2.28 | 3.92 | 483.64 | 3.22 | 15.69 | 2.05 |
| LT Cat V - Irrigation and Agriculture | 239.36 | 2,461.73 | 81.03 | 1,366.35 | 7,339.82 | 1.86 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 185.69 | 311.11 | 497.39 | 178.23 | 936.18 | 1.90 |
| LT Cat VII - General Purpose | 14.96 | 25.13 | 495.98 | 14.35 | 74.87 | 1.92 |
| LT Cat VIII - Temporary | 0.70 | 1.19 | 490.21 | 0.67 | 3.41 | 1.97 |
| | | | | | | |
| HT Cat I - Industry - General (11 kV) | 290.66 | 1,333.21 | 181.68 | 456.75 | 2,887.96 | 1.58 |
| HT Cat I - Industry - General (33 kV) | 517.25 | 816.74 | 527.76 | 814.65 | 5,335.65 | 1.53 |
| HT Cat I - Industry - General (220/132 kV) | 279.38 | 619.10 | 376.05 | 516.44 | 3,405.32 | 1.52 |
| HT Cat II - Industry - Other (11 kV) | 142.28 | 533.95 | 222.06 | 191.83 | 1,137.00 | 1.69 |
| HT Cat II - Industry - Other (33 kV) | 41.16 | 135.59 | 252.97 | 55.01 | 360.27 | 1.53 |
| HT Cat II - Industry - Other (220/132 kV) | 13.39 | 25.01 | 446.35 | 18.82 | 124.07 | 1.52 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 3.03 | 16.33 | 154.86 | 5.81 | 29.82 | 1.95 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 29.56 | 186.61 | 131.99 | 59.25 | 388.05 | 1.53 |
| HT Cat V - Railway Traction (EHT) | 26.70 | 62.70 | 354.94 | 27.99 | 184.55 | 1.52 |
| HT Cat VI - Colony Consumption | 15.23 | 44.15 | 287.42 | 15.85 | 94.42 | 1.68 |
| 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 | 0.77 | 1.41 | 451.11 | 0.86 | 5.54 | 1.56 |
| Open Access - 33 kV | | | | | | |
| Open Access - 11 kV | | | | | | |
| TOTAL | 3,659.28 | 9,706.21 | 314.17 | 5,626.56 | 31,904.99 | 1.76 |

| CPDCL | Transmission - Inter-State | | | Transmission - Intra-State | | |
|--|----------------------------|---|---------------------|----------------------------|---|---------------------|
| | Demand | | | Demand | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 25.89 | 2,114.74 | 10.20 | 80.73 | 2,114.74 | 31.81 |
| LT Cat II - Non-domestic | 8.59 | 701.47 | 10.20 | 26.78 | 701.47 | 31.81 |
| LT Cat III (A & B) - Industrial | 3.82 | 312.11 | 10.20 | 11.91 | 312.11 | 31.81 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.05 | 3.92 | 10.20 | 0.15 | 3.92 | 31.81 |
| LT Cat V - Irrigation and Agriculture | 30.14 | 2,461.73 | 10.20 | 93.97 | 2,461.73 | 31.81 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 3.81 | 311.11 | 10.20 | 11.88 | 311.11 | 31.81 |
| LT Cat VII - General Purpose | 0.31 | 25.13 | 10.20 | 0.96 | 25.13 | 31.81 |
| LT Cat VIII - Temporary | 0.01 | 1.19 | 10.20 | 0.05 | 1.19 | 31.81 |
| | | | | | | |
| HT Cat I - Industry - General (11 kV) | 33.62 | 1,333.21 | 21.01 | 104.80 | 1,333.21 | 65.51 |
| HT Cat I - Industry - General (33 kV) | 20.59 | 816.74 | 21.01 | 64.20 | 816.74 | 65.51 |
| HT Cat I - Industry - General (220/132 kV) | 15.61 | 619.10 | 21.01 | 48.67 | 619.10 | 65.51 |
| HT Cat II - Industry - Other (11 kV) | 13.46 | 533.95 | 21.01 | 41.97 | 533.95 | 65.51 |
| HT Cat II - Industry - Other (33 kV) | 3.42 | 135.59 | 21.01 | 10.66 | 135.59 | 65.51 |
| HT Cat II - Industry - Other (220/132 kV) | 0.63 | 25.01 | 21.01 | 1.97 | 25.01 | 65.51 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 0.20 | 16.33 | 10.20 | 0.62 | 16.33 | 31.81 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 2.28 | 186.61 | 10.20 | 7.12 | 186.61 | 31.81 |
| HT Cat V - Railway Traction (EHT) | 1.58 | 62.70 | 21.01 | 4.93 | 62.70 | 65.51 |
| HT Cat VI - Colony Consumption | 1.11 | 44.15 | 21.01 | 3.47 | 44.15 | 65.51 |
| 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 | 0.02 | 1.41 | 10.20 | 0.05 | 1.41 | 31.81 |
| Open Access - 33 kV | | | | | | |
| Open Access - 11 kV | | | | | | |
| TOTAL | 165.16 | 9,706.21 | 14.18 | 514.90 | 9,706.21 | 44.21 |

| CPDCL | Distribution | | | Retail Supply | | |
|--|------------------|---|---------------------|------------------|--------------------------------|---------------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP T-D interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Energy Sales (MU) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 374.72 | 1,810.39 | 172.49 | 22.11 | 6,289 | 0.04 |
| LT Cat II - Non-domestic | 120.97 | 584.44 | 172.49 | 7.29 | 2,030 | 0.04 |
| LT Cat III (A & B) - Industrial | 53.10 | 256.55 | 172.49 | 4.59 | 1,263 | 0.04 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.66 | 3.19 | 172.49 | 0.06 | 16 | 0.04 |
| LT Cat V - Irrigation and Agriculture | 466.46 | 2,253.62 | 172.49 | 24.44 | 7,340 | 0.03 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 56.96 | 275.21 | 172.49 | 3.19 | 936 | 0.03 |
| LT Cat VII - General Purpose | 4.56 | 22.01 | 172.49 | 0.26 | 75 | 0.03 |
| LT Cat VIII - Temporary | 0.21 | 1.00 | 172.49 | 0.01 | 3 | 0.04 |
| | | | | | | |
| HT Cat I - Industry - General (11 kV) | 173.40 | 1,275.88 | 113.26 | 8.17 | 2,888 | 0.03 |
| HT Cat I - Industry - General (33 kV) | 28.01 | 781.62 | 29.86 | 14.57 | 5,336 | 0.03 |
| HT Cat I - Industry - General (220/132 kV) | 0.00 | | NA | 9.24 | 3,405 | 0.03 |
| HT Cat II - Industry - Other (11 kV) | 69.45 | 510.99 | 113.26 | 3.43 | 1,137 | 0.03 |
| HT Cat II - Industry - Other (33 kV) | 4.65 | 129.76 | 29.86 | 0.98 | 360 | 0.03 |
| HT Cat II - Industry - Other (220/132 kV) | 0.00 | | NA | 0.34 | 124 | 0.03 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 1.89 | 13.93 | 113.26 | 0.10 | 30 | 0.03 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 6.39 | 178.24 | 29.86 | 1.06 | 388 | 0.03 |
| HT Cat V - Railway Traction (EHT) | 0.00 | | NA | 0.50 | 185 | 0.03 |
| HT Cat VI - Colony Consumption | 5.88 | 43.23 | 113.26 | 0.28 | 94 | 0.03 |
| 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 | 1.08 | 113.26 | 0.02 | 6 | 0.03 |
| 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 |
| TOTAL | 1,367.44 | 8,141.15 | 139.97 | 100.64 | 31,905 | 0.03 |

| CPDCL | Cost Allocation (Rs Crores) | | | |
|--|-----------------------------|---------------|-----------------|-----------------|
| | Demand - G | Demand - T | Demand - D | Energy |
| LT | Rs Crores | | | |
| LT Cat I - Domestic | 1,263.37 | 106.62 | 374.72 | 1,258.48 |
| LT Cat II - Non-domestic | 411.70 | 35.37 | 120.97 | 414.63 |
| LT Cat III (A & B) - Industrial | 181.80 | 15.74 | 53.10 | 261.37 |
| LT Cat IV - Cottage Industries & Dhobighats | 2.28 | 0.20 | 0.66 | 3.28 |
| LT Cat V - Irrigation and Agriculture | 239.36 | 124.12 | 466.46 | 1,390.78 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 185.69 | 15.69 | 56.96 | 181.42 |
| LT Cat VII - General Purpose | 14.96 | 1.27 | 4.56 | 14.61 |
| LT Cat VIII - Temporary | 0.70 | 0.06 | 0.21 | 0.68 |
| | | | | |
| HT Cat I - Industry - General (11 kV) | 290.66 | 138.42 | 173.40 | 464.92 |
| HT Cat I - Industry - General (33 kV) | 517.25 | 84.80 | 28.01 | 829.22 |
| HT Cat I - Industry - General (220/132 kV) | 279.38 | 64.28 | 0.00 | 525.68 |
| HT Cat II - Industry - Other (11 kV) | 142.28 | 55.44 | 69.45 | 195.26 |
| HT Cat II - Industry - Other (33 kV) | 41.16 | 14.08 | 4.65 | 55.99 |
| HT Cat II - Industry - Other (220/132 kV) | 13.39 | 2.60 | 0.00 | 19.15 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 3.03 | 0.82 | 1.89 | 5.91 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 29.56 | 9.41 | 6.39 | 60.31 |
| HT Cat V - Railway Traction (EHT) | 26.70 | 6.51 | 0.00 | 28.49 |
| HT Cat VI - Colony Consumption | 15.23 | 4.58 | 5.88 | 16.13 |
| 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 | 0.77 | 0.07 | 0.15 | 0.88 |
| Open Access - 33 kV | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 11 kV | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 3,659.28 | 680.06 | 1,367.44 | 5,727.20 |

| CPDCL | Cost Allocation (Rs Cr.) | | Total Cost | Sales | CoS |
|--|--------------------------|-----------------|------------------|------------------|-------------|
| | Demand | Energy | | | |
| LT | Rs Crores | | Rs Crores | MUs | Rs/Unit |
| LT Cat I - Domestic | 1,744.71 | 1,258.48 | 3,003.19 | 6,289.37 | 4.78 |
| LT Cat II - Non-domestic | 568.03 | 414.63 | 982.66 | 2,030.35 | 4.84 |
| LT Cat III (A & B) - Industrial | 250.64 | 261.37 | 512.01 | 1,262.63 | 4.06 |
| LT Cat IV - Cottage Industries & Dhobighats | 3.14 | 3.28 | 6.42 | 15.69 | 4.09 |
| LT Cat V - Irrigation and Agriculture | 829.93 | 1,390.78 | 2,220.72 | 7,339.82 | 3.03 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 258.34 | 181.42 | 439.77 | 936.18 | 4.70 |
| LT Cat VII - General Purpose | 20.78 | 14.61 | 35.39 | 74.87 | 4.73 |
| LT Cat VIII - Temporary | 0.97 | 0.68 | 1.65 | 3.41 | 4.85 |
| | | | | | |
| HT Cat I - Industry - General (11 kV) | 602.49 | 464.92 | 1,067.41 | 2,887.96 | 3.70 |
| HT Cat I - Industry - General (33 kV) | 630.06 | 829.22 | 1,459.27 | 5,335.65 | 2.73 |
| HT Cat I - Industry - General (220/132 kV) | 343.66 | 525.68 | 869.33 | 3,405.32 | 2.55 |
| HT Cat II - Industry - Other (11 kV) | 267.16 | 195.26 | 462.43 | 1,137.00 | 4.07 |
| HT Cat II - Industry - Other (33 kV) | 59.89 | 55.99 | 115.88 | 360.27 | 3.22 |
| HT Cat II - Industry - Other (220/132 kV) | 15.99 | 19.15 | 35.14 | 124.07 | 2.83 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 5.75 | 5.91 | 11.67 | 29.82 | 3.91 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 45.35 | 60.31 | 105.66 | 388.05 | 2.72 |
| HT Cat V - Railway Traction (EHT) | 33.21 | 28.49 | 61.70 | 184.55 | 3.34 |
| HT Cat VI - Colony Consumption | 25.69 | 16.13 | 41.82 | 94.42 | 4.43 |
| 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 | 0.98 | 0.88 | 1.86 | 5.54 | 3.36 |
| 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 | 5,706.77 | 5,727.20 | 11,433.97 | 31,904.99 | 3.58 |

ANNEXURE - J
EPDCL: COST OF SERVICE MODEL

| EPDCL | Generation | | | | | |
|--|------------------|---|---------------------|------------------|------------------------------------|--------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Recovery Basis - Energy Sales (MU) | CoS - Rs/kWh |
| LT Cat I - Domestic | 550.59 | 1,038.44 | 441.84 | 650.52 | 3,370.25 | 1.93 |
| LT Cat II - Non-domestic | 122.04 | 225.74 | 450.53 | 141.23 | 729.09 | 1.94 |
| LT Cat III (A & B) - Industrial | 48.72 | 97.16 | 417.91 | 84.44 | 426.94 | 1.98 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.22 | 0.44 | 417.92 | 0.38 | 1.93 | 1.97 |
| LT Cat V - Irrigation and Agriculture | 48.38 | 539.78 | 74.70 | 296.31 | 1,558.81 | 1.90 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 57.21 | 114.41 | 416.69 | 64.18 | 309.27 | 2.08 |
| LT Cat VII - General Purpose | 6.97 | 13.95 | 416.45 | 7.82 | 37.55 | 2.08 |
| LT Cat VIII - Temporary | 0.08 | 0.17 | 418.16 | 0.16 | 0.46 | 3.46 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 94.20 | 458.67 | 171.14 | 169.55 | 1,031.22 | 1.64 |
| HT Cat I - Industry - General (33 kV) | 93.79 | 200.28 | 390.23 | 169.56 | 1,056.61 | 1.60 |
| HT Cat I - Industry - General (220/132 kV) | 139.62 | 505.22 | 230.29 | 289.93 | 1,814.28 | 1.60 |
| HT Cat II - Industry - Other (11 kV) | 32.77 | 169.44 | 161.15 | 50.40 | 306.51 | 1.64 |
| HT Cat II - Industry - Other (33 kV) | 10.74 | 37.72 | 237.21 | 19.27 | 120.11 | 1.60 |
| HT Cat II - Industry - Other (220/132 kV) | 4.29 | 17.69 | 201.97 | 8.28 | 51.84 | 1.60 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 0.99 | 11.09 | 74.34 | 5.32 | 32.39 | 1.64 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 4.82 | 54.07 | 74.29 | 26.79 | 166.92 | 1.60 |
| HT Cat V - Railway Traction (EHT) | 78.94 | 373.14 | 176.31 | 92.95 | 581.64 | 1.60 |
| HT Cat VI - Colony Consumption | 5.83 | 10.39 | 467.29 | 7.05 | 42.88 | 1.64 |
| HT Rural Co-operatives (11 kV) | 14.04 | 45.40 | 257.70 | 36.34 | 221.00 | 1.64 |
| 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 | | | | | | |
| TOTAL | 1,314.23 | 3,913.18 | 279.87 | 2,120.47 | 11,859.70 | 1.79 |

| EPDCL | ULDC and PGCIL - Inter-State | | | Transmission - Intra-State | | |
|--|------------------------------|--|---------------------------|----------------------------|--|---------------------------|
| | Demand | | | Demand | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 6.42 | 1,038.44 | 5.15 | 20.84 | 1,038.44 | 16.72 |
| LT Cat II - Non-domestic | 1.39 | 225.74 | 5.15 | 4.53 | 225.74 | 16.72 |
| LT Cat III (A & B) - Industrial | 0.60 | 97.16 | 5.15 | 1.95 | 97.16 | 16.72 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.00 | 0.44 | 5.15 | 0.01 | 0.44 | 16.72 |
| LT Cat V - Irrigation and Agriculture | 3.33 | 539.78 | 5.15 | 10.83 | 539.78 | 16.72 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 0.71 | 114.41 | 5.15 | 2.30 | 114.41 | 16.72 |
| LT Cat VII - General Purpose | 0.09 | 13.95 | 5.15 | 0.28 | 13.95 | 16.72 |
| LT Cat VIII - Temporary HT | 0.00 | 0.17 | 5.15 | 0.00 | 0.17 | 16.72 |
| HT Cat I - Industry - General (11 kV) | 11.10 | 458.67 | 20.17 | 36.06 | 458.67 | 65.51 |
| HT Cat I - Industry - General (33 kV) | 4.85 | 200.28 | 20.17 | 15.74 | 200.28 | 65.51 |
| HT Cat I - Industry - General (220/132 kV) | 12.23 | 505.22 | 20.17 | 39.72 | 505.22 | 65.51 |
| HT Cat II - Industry - Other (11 kV) | 4.10 | 169.44 | 20.17 | 13.32 | 169.44 | 65.51 |
| HT Cat II - Industry - Other (33 kV) | 0.91 | 37.72 | 20.17 | 2.96 | 37.72 | 65.51 |
| HT Cat II - Industry - Other (220/132 kV) | 0.43 | 17.69 | 20.17 | 1.39 | 17.69 | 65.51 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 0.07 | 11.09 | 5.15 | 0.22 | 11.09 | 16.72 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.33 | 54.07 | 5.15 | 1.09 | 54.07 | 16.72 |
| HT Cat V - Railway Traction (EHT) | 9.03 | 373.14 | 20.17 | 29.33 | 373.14 | 65.51 |
| HT Cat VI - Colony Consumption | 0.25 | 10.39 | 20.17 | 0.82 | 10.39 | 65.51 |
| HT Rural Co-operatives (11 kV) | 0.28 | 45.40 | 5.15 | 0.91 | 45.40 | 16.72 |
| 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 | | | | | | |
| TOTAL | 56.13 | 3,913.18 | 11.95 | 182.30 | 3,913.18 | 38.82 |

| EPDCL | Distribution | | | Retail Supply | | |
|--|------------------|---|---------------------|------------------|--------------------------------|--------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP T-D interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Energy Sales (MU) | CoS - Rs/kWh |
| LT Cat I - Domestic | 282.43 | 923.02 | 254.99 | 13.82 | 3,370 | 0.04 |
| LT Cat II - Non-domestic | 61.10 | 199.68 | 254.99 | 3.00 | 729 | 0.04 |
| LT Cat III (A & B) - Industrial | 25.63 | 83.77 | 254.99 | 1.79 | 427 | 0.04 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.12 | 0.38 | 254.99 | 0.01 | 2 | 0.04 |
| LT Cat V - Irrigation and Agriculture | 149.29 | 487.90 | 254.99 | 6.29 | 1,559 | 0.04 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 28.27 | 92.40 | 254.99 | 1.36 | 309 | 0.04 |
| LT Cat VII - General Purpose | 3.43 | 11.22 | 254.99 | 0.17 | 38 | 0.04 |
| LT Cat VIII - Temporary | 0.04 | 0.14 | 254.99 | 0.00 | 0 | 0.07 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 70.95 | 438.95 | 134.70 | 3.60 | 1,031 | 0.03 |
| HT Cat I - Industry - General (33 kV) | 5.48 | 191.66 | 23.84 | 3.60 | 1,057 | 0.03 |
| HT Cat I - Industry - General (220/132 kV) | 0.00 | | NA | 6.16 | 1,814 | 0.03 |
| HT Cat II - Industry - Other (11 kV) | 26.21 | 162.15 | 134.70 | 1.07 | 307 | 0.03 |
| HT Cat II - Industry - Other (33 kV) | 1.03 | 36.09 | 23.84 | 0.41 | 120 | 0.03 |
| HT Cat II - Industry - Other (220/132 kV) | 0.00 | | NA | 0.18 | 52 | 0.03 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 1.70 | 10.49 | 134.70 | 0.11 | 32 | 0.03 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 1.48 | 51.67 | 23.84 | 0.57 | 167 | 0.03 |
| HT Cat V - Railway Traction (EHT) | 0.00 | | NA | 1.97 | 582 | 0.03 |
| HT Cat VI - Colony Consumption | 1.64 | 10.16 | 134.70 | 0.15 | 43 | 0.03 |
| HT Rural Co-operatives (11 kV) | 6.94 | 42.96 | 134.70 | 0.77 | 221 | 0.03 |
| 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 | | | |
| TOTAL | 665.75 | 2,742.66 | 202.28 | 45.04 | 11,860 | 0.04 |

| EPDCL | Cost Allocation (Rs Crores) | | | | |
|--|-----------------------------|------------|------------|----------|----------|
| | Demand - G | Demand - T | Demand - D | Energy | Customer |
| LT | Rs Crores | | | | |
| LT Cat I - Domestic | 550.59 | 27.25 | 282.43 | 664.34 | 0.00 |
| LT Cat II - Non-domestic | 122.04 | 5.92 | 61.10 | 144.23 | 0.00 |
| LT Cat III (A & B) - Industrial | 48.72 | 2.55 | 25.63 | 86.23 | 0.00 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.22 | 0.01 | 0.12 | 0.39 | 0.00 |
| LT Cat V - Irrigation and Agriculture | 48.38 | 14.17 | 149.29 | 302.60 | 0.00 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 57.21 | 3.00 | 28.27 | 65.55 | 0.00 |
| LT Cat VII - General Purpose | 6.97 | 0.37 | 3.43 | 7.99 | 0.00 |
| LT Cat VIII - Temporary | 0.08 | 0.00 | 0.04 | 0.16 | 0.00 |
| HT | | | | | |
| HT Cat I - Industry - General (11 kV) | 94.20 | 47.16 | 70.95 | 173.15 | 0.00 |
| HT Cat I - Industry - General (33 kV) | 93.79 | 20.59 | 5.48 | 173.16 | 0.00 |
| HT Cat I - Industry - General (220/132 kV) | 139.62 | 51.94 | 0.00 | 296.09 | 0.00 |
| HT Cat II - Industry - Other (11 kV) | 32.77 | 17.42 | 26.21 | 51.47 | 0.00 |
| HT Cat II - Industry - Other (33 kV) | 10.74 | 3.88 | 1.03 | 19.68 | 0.00 |
| HT Cat II - Industry - Other (220/132 kV) | 4.29 | 1.82 | 0.00 | 8.46 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 0.99 | 0.29 | 1.70 | 5.44 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 4.82 | 1.42 | 1.48 | 27.36 | 0.00 |
| HT Cat V - Railway Traction (EHT) | 78.94 | 38.36 | 0.00 | 94.92 | 0.00 |
| HT Cat VI - Colony Consumption | 5.83 | 1.07 | 1.64 | 7.20 | 0.00 |
| HT Rural Co-operatives (11 kV) | 14.04 | 1.19 | 6.94 | 37.11 | 0.00 |
| 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 |
| TOTAL | 1,314.23 | 238.43 | 665.75 | 2,165.51 | 0.00 |

| EPDCL | Cost Allocation (Rs Cr.) | | | Total Cost | Sales | CoS |
|--|--------------------------|-----------------|-------------|-----------------|------------------|-------------|
| | Demand | Energy | Customer | | | |
| LT | Rs Crores | | | Rs Crores | MUs | Rs/Unit |
| LT Cat I - Domestic | 860.27 | 664.34 | 0.00 | 1,524.61 | 3,370.25 | 4.52 |
| LT Cat II - Non-domestic | 189.06 | 144.23 | 0.00 | 333.29 | 729.09 | 4.57 |
| LT Cat III (A & B) - Industrial | 76.90 | 86.23 | 0.00 | 163.13 | 426.94 | 3.82 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.35 | 0.39 | 0.00 | 0.74 | 1.93 | 3.81 |
| LT Cat V - Irrigation and Agriculture | 211.84 | 302.60 | 0.00 | 514.44 | 1,558.81 | 3.30 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 88.48 | 65.55 | 0.00 | 154.03 | 309.27 | 4.98 |
| LT Cat VII - General Purpose | 10.77 | 7.99 | 0.00 | 18.76 | 37.55 | 4.99 |
| LT Cat VIII - Temporary | 0.13 | 0.16 | 0.00 | 0.29 | 0.46 | 6.35 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 212.30 | 173.15 | 0.00 | 385.45 | 1,031.22 | 3.74 |
| HT Cat I - Industry - General (33 kV) | 119.86 | 173.16 | 0.00 | 293.02 | 1,056.61 | 2.77 |
| HT Cat I - Industry - General (220/132 kV) | 191.56 | 296.09 | 0.00 | 487.65 | 1,814.28 | 2.69 |
| HT Cat II - Industry - Other (11 kV) | 76.40 | 51.47 | 0.00 | 127.86 | 306.51 | 4.17 |
| HT Cat II - Industry - Other (33 kV) | 15.65 | 19.68 | 0.00 | 35.33 | 120.11 | 2.94 |
| HT Cat II - Industry - Other (220/132 kV) | 6.11 | 8.46 | 0.00 | 14.57 | 51.84 | 2.81 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 2.98 | 5.44 | 0.00 | 8.41 | 32.39 | 2.60 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 7.72 | 27.36 | 0.00 | 35.07 | 166.92 | 2.10 |
| HT Cat V - Railway Traction (EHT) | 117.31 | 94.92 | 0.00 | 212.23 | 581.64 | 3.65 |
| HT Cat VI - Colony Consumption | 8.54 | 7.20 | 0.00 | 15.74 | 42.88 | 3.67 |
| HT Rural Co-operatives (11 kV) | 22.18 | 37.11 | 0.00 | 59.28 | 221.00 | 2.68 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT Temporary | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 33 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 11 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 2,218.40 | 2,165.51 | 0.00 | 4,383.92 | 11,859.70 | 3.70 |

ANNEXURE - K
NPDCCL: COST OF SERVICE MODEL

| NPDCCL | Generation | | | | | |
|--|------------------|---|---------------------|------------------|------------------------------------|--------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Recovery Basis - Energy Sales (MU) | CoS - Rs/kWh |
| LT Cat I - Domestic | 461.48 | 770.26 | 499.27 | 426.10 | 2,328.36 | 1.83 |
| LT Cat II - Non-domestic | 107.12 | 185.57 | 481.05 | 95.41 | 495.88 | 1.92 |
| LT Cat III (A & B) - Industrial | 48.81 | 85.63 | 475.06 | 58.71 | 310.34 | 1.89 |
| LT Cat IV - Cottage Industries & Dhobighats | 1.14 | 1.99 | 476.91 | 1.37 | 7.31 | 1.87 |
| LT Cat V - Irrigation and Agriculture | 126.40 | 1,246.05 | 84.53 | 637.18 | 3,596.07 | 1.77 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 107.54 | 180.85 | 495.53 | 86.99 | 468.04 | 1.86 |
| LT Cat VII - General Purpose | 7.24 | 12.22 | 493.21 | 5.82 | 31.24 | 1.86 |
| LT Cat VIII - Temporary | 0.02 | 0.04 | 428.29 | 0.04 | 0.12 | 3.20 |
| HT | 0.00 | | | 0.00 | | |
| HT Cat I - Industry - General (11 kV) | 38.00 | 96.22 | 329.09 | 53.37 | 337.01 | 1.58 |
| HT Cat I - Industry - General (33 kV) | 12.21 | 23.73 | 428.93 | 17.14 | 115.17 | 1.49 |
| HT Cat I - Industry - General (220/132 kV) | 61.91 | 129.40 | 398.66 | 107.29 | 725.59 | 1.48 |
| HT Cat II - Industry - Other (11 kV) | 10.26 | 25.66 | 333.12 | 15.58 | 92.64 | 1.68 |
| HT Cat II - Industry - Other (33 kV) | 0.13 | 0.23 | 449.00 | 0.17 | 1.15 | 1.49 |
| HT Cat II - Industry - Other (220/132 kV) | 0.21 | 0.34 | 512.15 | 0.29 | 1.99 | 1.48 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 34.97 | 174.27 | 167.23 | 55.37 | 359.13 | 1.54 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.46 | 20.01 | 19.02 | 4.79 | 32.15 | 1.49 |
| HT Cat V - Railway Traction (EHT) | 61.96 | 93.21 | 553.99 | 60.03 | 405.98 | 1.48 |
| HT Cat VI - Colony Consumption | 23.89 | 32.72 | 608.43 | 23.24 | 152.58 | 1.52 |
| HT Rural Co-operatives (11 kV) | 43.59 | 118.97 | 305.30 | 93.71 | 625.00 | 1.50 |
| 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 | | | | | | |
| TOTAL | 1,147.32 | 3,197.36 | 299.03 | 1,742.59 | 10,085.76 | 1.73 |

| NPDCCL | Transmission - Inter-State | | | Transmission - Intra-State | | |
|---|----------------------------|--|---------------------------|----------------------------|--|---------------------------|
| | Demand | | | Demand | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 12.75 | 770.26 | 13.80 | 39.95 | 770.26 | 43.22 |
| LT Cat II - Non-domestic | 3.07 | 185.57 | 13.80 | 9.62 | 185.57 | 43.22 |
| LT Cat III (A & B) - Industrial | 1.42 | 85.63 | 13.80 | 4.44 | 85.63 | 43.22 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.03 | 1.99 | 13.80 | 0.10 | 1.99 | 43.22 |
| LT Cat V - Irrigation and Agriculture | 20.63 | 1,246.05 | 13.80 | 64.62 | 1,246.05 | 43.22 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 2.99 | 180.85 | 13.80 | 9.38 | 180.85 | 43.22 |
| LT Cat VII - General Purpose | 0.20 | 12.22 | 13.80 | 0.63 | 12.22 | 43.22 |
| LT Cat VIII - Temporary | 0.00 | 0.04 | 13.80 | 0.00 | 0.04 | 43.22 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 2.41 | 96.22 | 20.91 | 7.56 | 96.22 | 65.51 |
| HT Cat I - Industry - General (33 kV) | 0.60 | 23.73 | 20.91 | 1.87 | 23.73 | 65.51 |
| HT Cat I - Industry - General (220/132 kV) | 3.25 | 129.40 | 20.91 | 10.17 | 129.40 | 65.51 |
| HT Cat II - Industry - Other (11 kV) | 0.64 | 25.66 | 20.91 | 2.02 | 25.66 | 65.51 |
| HT Cat II - Industry - Other (33 kV) | 0.01 | 0.23 | 20.91 | 0.02 | 0.23 | 65.51 |
| HT Cat II - Industry - Other (220/132 kV) | 0.01 | 0.34 | 20.91 | 0.03 | 0.34 | 65.51 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 2.89 | 174.27 | 13.80 | 9.04 | 174.27 | 43.22 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.33 | 20.01 | 13.80 | 1.04 | 20.01 | 43.22 |
| HT Cat V - Railway Traction (EHT) | 2.34 | 93.21 | 20.91 | 7.33 | 93.21 | 65.51 |
| HT Cat VI - Colony Consumption | 0.82 | 32.72 | 20.91 | 2.57 | 32.72 | 65.51 |
| HT Rural Co-operatives (11 kV) | 1.97 | 118.97 | 13.80 | 6.17 | 118.97 | 43.22 |
| 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 | | | | | | |
| TOTAL | 56.37 | 3,197.36 | 14.69 | 176.56 | 3,197.36 | 46.02 |

| NPDCL | Distribution | | | Retail Supply | | |
|---|---------------------|--|---------------------------|---------------------|--------------------------------------|---------------------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP T-D interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Energy Sales (MU) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 198.79 | 689.14 | 240.38 | 6.23 | 2,328 | 0.03 |
| LT Cat II - Non-domestic | 45.22 | 156.78 | 240.38 | 1.39 | 496 | 0.03 |
| LT Cat III (A & B) - Industrial | 21.11 | 73.17 | 240.38 | 0.86 | 310 | 0.03 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.50 | 1.72 | 240.38 | 0.02 | 7 | 0.03 |
| LT Cat V - Irrigation and Agriculture | 335.58 | 1,163.37 | 240.38 | 9.31 | 3,596 | 0.03 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 45.81 | 158.80 | 240.38 | 1.27 | 468 | 0.03 |
| LT Cat VII - General Purpose | 3.06 | 10.60 | 240.38 | 0.09 | 31 | 0.03 |
| LT Cat VIII - Temporary | 0.01 | 0.04 | 240.38 | 0.00 | 0 | 0.05 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 11.12 | 92.09 | 100.61 | 0.78 | 337 | 0.02 |
| HT Cat I - Industry - General (33 kV) | 0.43 | 22.71 | 15.78 | 0.25 | 115 | 0.02 |
| HT Cat I - Industry - General (220/132 kV) | 0.00 | | NA | 1.57 | 726 | 0.02 |
| HT Cat II - Industry - Other (11 kV) | 2.96 | 24.55 | 100.61 | 0.23 | 93 | 0.02 |
| HT Cat II - Industry - Other (33 kV) | 0.00 | 0.22 | 15.78 | 0.00 | 1 | 0.02 |
| HT Cat II - Industry - Other (220/132 kV) | 0.00 | | NA | 0.00 | 2 | 0.02 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 20.06 | 166.14 | 100.61 | 0.81 | 359 | 0.02 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.28 | 14.70 | 15.78 | 0.07 | 32 | 0.02 |
| HT Cat V - Railway Traction (EHT) | 0.00 | | NA | 0.88 | 406 | 0.02 |
| HT Cat VI - Colony Consumption | 3.83 | 31.72 | 100.61 | 0.34 | 153 | 0.02 |
| HT Rural Co-operatives (11 kV) | 13.63 | 112.94 | 100.61 | 1.37 | 625 | 0.02 |
| 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 | | | |
| TOTAL | 702.38 | 2,718.69 | 215.29 | 25.46 | 10,086 | 0.03 |

| NPDCL | Cost Allocation (Rs Crores) | | | | |
|--|-----------------------------|---------------|---------------|-----------------|-------------|
| | Demand - G | Demand - T | Demand - D | Energy | Customer |
| LT | Rs Crores | | | | |
| LT Cat I - Domestic | 461.48 | 52.70 | 198.79 | 432.32 | 0.00 |
| LT Cat II - Non-domestic | 107.12 | 12.70 | 45.22 | 96.80 | 0.00 |
| LT Cat III (A & B) - Industrial | 48.81 | 5.86 | 21.11 | 59.57 | 0.00 |
| LT Cat IV - Cottage Industries & Dhobighats | 1.14 | 0.14 | 0.50 | 1.39 | 0.00 |
| LT Cat V - Irrigation and Agriculture | 126.40 | 85.25 | 335.58 | 646.49 | 0.00 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 107.54 | 12.37 | 45.81 | 88.26 | 0.00 |
| LT Cat VII - General Purpose | 7.24 | 0.84 | 3.06 | 5.90 | 0.00 |
| LT Cat VIII - Temporary | 0.02 | 0.00 | 0.01 | 0.04 | 0.00 |
| HT | | | | | |
| HT Cat I - Industry - General (11 kV) | 38.00 | 9.98 | 11.12 | 54.15 | 0.00 |
| HT Cat I - Industry - General (33 kV) | 12.21 | 2.46 | 0.43 | 17.40 | 0.00 |
| HT Cat I - Industry - General (220/132 kV) | 61.91 | 13.42 | 0.00 | 108.86 | 0.00 |
| HT Cat II - Industry - Other (11 kV) | 10.26 | 2.66 | 2.96 | 15.81 | 0.00 |
| HT Cat II - Industry - Other (33 kV) | 0.13 | 0.02 | 0.00 | 0.17 | 0.00 |
| HT Cat II - Industry - Other (220/132 kV) | 0.21 | 0.04 | 0.00 | 0.30 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 34.97 | 11.92 | 20.06 | 56.18 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.46 | 1.37 | 0.28 | 4.86 | 0.00 |
| HT Cat V - Railway Traction (EHT) | 61.96 | 9.67 | 0.00 | 60.91 | 0.00 |
| HT Cat VI - Colony Consumption | 23.89 | 3.39 | 3.83 | 23.58 | 0.00 |
| HT Rural Co-operatives (11 kV) | 43.59 | 8.14 | 13.63 | 95.08 | 0.00 |
| 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 |
| TOTAL | 1,147.32 | 232.93 | 702.38 | 1,768.05 | 0.00 |

| NPDCCL | Cost Allocation (Rs Cr.) | | | Total Cost | Sales | CoS |
|--|--------------------------|-----------------|-------------|-----------------|------------------|-------------|
| | Demand | Energy | Customer | | | |
| LT | Rs Crores | | | Rs Crores | MUs | Rs/Unit |
| LT Cat I - Domestic | 712.96 | 432.32 | 0.00 | 1,145.29 | 2,328.36 | 4.92 |
| LT Cat II - Non-domestic | 165.04 | 96.80 | 0.00 | 261.84 | 495.88 | 5.28 |
| LT Cat III (A & B) - Industrial | 75.78 | 59.57 | 0.00 | 135.35 | 310.34 | 4.36 |
| LT Cat IV - Cottage Industries & Dhobighats | 1.77 | 1.39 | 0.00 | 3.16 | 7.31 | 4.32 |
| LT Cat V - Irrigation and Agriculture | 547.23 | 646.49 | 0.00 | 1,193.71 | 3,596.07 | 3.32 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 165.72 | 88.26 | 0.00 | 253.98 | 468.04 | 5.43 |
| LT Cat VII - General Purpose | 11.13 | 5.90 | 0.00 | 17.03 | 31.24 | 5.45 |
| LT Cat VIII - Temporary | 0.03 | 0.04 | 0.00 | 0.07 | 0.12 | 6.07 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 59.10 | 54.15 | 0.00 | 113.25 | 337.01 | 3.36 |
| HT Cat I - Industry - General (33 kV) | 15.10 | 17.40 | 0.00 | 32.50 | 115.17 | 2.82 |
| HT Cat I - Industry - General (220/132 kV) | 75.33 | 108.86 | 0.00 | 184.18 | 725.59 | 2.54 |
| HT Cat II - Industry - Other (11 kV) | 15.88 | 15.81 | 0.00 | 31.69 | 92.64 | 3.42 |
| HT Cat II - Industry - Other (33 kV) | 0.15 | 0.17 | 0.00 | 0.33 | 1.15 | 2.86 |
| HT Cat II - Industry - Other (220/132 kV) | 0.25 | 0.30 | 0.00 | 0.55 | 1.99 | 2.74 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 66.95 | 56.18 | 0.00 | 123.13 | 359.13 | 3.43 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 2.10 | 4.86 | 0.00 | 6.96 | 32.15 | 2.16 |
| HT Cat V - Railway Traction (EHT) | 71.63 | 60.91 | 0.00 | 132.54 | 405.98 | 3.26 |
| HT Cat VI - Colony Consumption | 31.11 | 23.58 | 0.00 | 54.69 | 152.58 | 3.58 |
| HT Rural Co-operatives (11 kV) | 65.36 | 95.08 | 0.00 | 160.44 | 625.00 | 2.57 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT Temporary | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 33 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 11 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 2,082.63 | 1,768.05 | 0.00 | 3,850.68 | 10,085.76 | 3.82 |

ANNEXURE - L
SPDCL: COST OF SERVICE MODEL

| SPDCL | Generation | | | | | |
|--|------------------|---|---------------------|------------------|------------------------------------|--------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Recovery Basis - Energy Sales (MU) | CoS - Rs/kWh |
| LT Cat I - Domestic | 747.67 | 1,319.32 | 472.26 | 876.78 | 4,468.26 | 1.96 |
| LT Cat II - Non-domestic | 191.91 | 343.39 | 465.73 | 214.94 | 1,081.50 | 1.99 |
| LT Cat III (A & B) - Industrial | 108.36 | 210.33 | 429.34 | 177.13 | 877.41 | 2.02 |
| LT Cat IV - Cottage Industries & Dhobighats | 3.89 | 7.56 | 429.34 | 6.38 | 31.70 | 2.01 |
| LT Cat V - Irrigation and Agriculture | 114.25 | 1,257.02 | 75.74 | 763.59 | 4,074.52 | 1.87 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 111.42 | 261.04 | 355.70 | 121.78 | 594.50 | 2.05 |
| LT Cat VII - General Purpose | 10.23 | 23.91 | 356.44 | 11.15 | 54.61 | 2.04 |
| LT Cat VIII - Temporary | 0.21 | 0.51 | 345.96 | 0.24 | 1.12 | 2.13 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 87.11 | 579.69 | 125.23 | 149.44 | 859.89 | 1.74 |
| HT Cat I - Industry - General (33 kV) | 200.74 | 869.30 | 192.44 | 358.12 | 2,200.38 | 1.63 |
| HT Cat I - Industry - General (220/132 kV) | 71.55 | 296.67 | 200.97 | 151.45 | 935.92 | 1.62 |
| HT Cat II - Industry - Other (11 kV) | 38.06 | 260.87 | 121.56 | 64.61 | 375.81 | 1.72 |
| HT Cat II - Industry - Other (33 kV) | 5.31 | 18.92 | 234.04 | 8.78 | 53.95 | 1.63 |
| 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) | 3.50 | 23.97 | 121.68 | 8.22 | 47.99 | 1.71 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.29 | 5.55 | 43.21 | 1.88 | 11.56 | 1.63 |
| HT Cat V - Railway Traction (EHT) | 75.95 | 507.55 | 124.70 | 93.70 | 579.01 | 1.62 |
| HT Cat VI - Colony Consumption | 8.41 | 33.65 | 208.21 | 10.13 | 58.47 | 1.73 |
| HT Rural Co-operatives (11 kV) | 16.68 | 63.25 | 219.74 | 43.62 | 265.00 | 1.65 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | NA | 0.00 | 0.00 | NA |
| HT Temporary | 0.03 | 0.05 | 510.59 | 0.04 | 0.24 | 1.65 |
| Open Access - 33 kV | | | | | | |
| Open Access - 11 kV | | | | | | |
| TOTAL | 1,795.58 | 6,082.54 | 246.00 | 3,061.98 | 16,571.85 | 1.85 |

| SPDCL | Transmission - Inter-State | | | Transmission - Intra-State | | |
|--|----------------------------|---|---------------------|----------------------------|---|---------------------|
| | Demand | | | Demand | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Contracts/NCP G-T interface (MW) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 6.46 | 1,319.32 | 4.08 | 21.49 | 1,319.32 | 13.57 |
| LT Cat II - Non-domestic | 1.68 | 343.39 | 4.08 | 5.59 | 343.39 | 13.57 |
| LT Cat III (A & B) - Industrial | 1.03 | 210.33 | 4.08 | 3.43 | 210.33 | 13.57 |
| LT Cat IV - Cottage Industries & Dhobighats | 0.04 | 7.56 | 4.08 | 0.12 | 7.56 | 13.57 |
| LT Cat V - Irrigation and Agriculture | 6.16 | 1,257.02 | 4.08 | 20.47 | 1,257.02 | 13.57 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 1.28 | 261.04 | 4.08 | 4.25 | 261.04 | 13.57 |
| LT Cat VII - General Purpose | 0.12 | 23.91 | 4.08 | 0.39 | 23.91 | 13.57 |
| LT Cat VIII - Temporary | 0.00 | 0.51 | 4.08 | 0.01 | 0.51 | 13.57 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 13.71 | 579.69 | 19.71 | 45.57 | 579.69 | 65.51 |
| HT Cat I - Industry - General (33 kV) | 20.56 | 869.30 | 19.71 | 68.34 | 869.30 | 65.51 |
| HT Cat I - Industry - General (220/132 kV) | 7.02 | 296.67 | 19.71 | 23.32 | 296.67 | 65.51 |
| HT Cat II - Industry - Other (11 kV) | 6.17 | 260.87 | 19.71 | 20.51 | 260.87 | 65.51 |
| HT Cat II - Industry - Other (33 kV) | 0.45 | 18.92 | 19.71 | 1.49 | 18.92 | 65.51 |
| 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) | 0.12 | 23.97 | 4.08 | 0.39 | 23.97 | 13.57 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.03 | 5.55 | 4.08 | 0.09 | 5.55 | 13.57 |
| HT Cat V - Railway Traction (EHT) | 12.00 | 507.55 | 19.71 | 39.90 | 507.55 | 65.51 |
| HT Cat VI - Colony Consumption | 0.80 | 33.65 | 19.71 | 2.65 | 33.65 | 65.51 |
| HT Rural Co-operatives (11 kV) | 0.31 | 63.25 | 4.08 | 1.03 | 63.25 | 13.57 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | NA | 0.00 | 0.00 | NA |
| HT Temporary | 0.00 | 0.05 | 4.08 | 0.00 | 0.05 | 13.57 |
| Open Access - 33 kV | | | | | | |
| Open Access - 11 kV | | | | | | |
| TOTAL | 77.92 | 6,082.54 | 10.68 | 259.03 | 6,082.54 | 35.49 |

| SPDCL | Distribution | | | Retail Supply | | |
|--|------------------|---|---------------------|------------------|--------------------------------|---------------------|
| | Demand | | | Energy | | |
| LT | Cost (Rs Crores) | Rate Basis - Contracts/NCP T-D interface (MW) | CoS - Rs/kVA/ Month | Cost (Rs Crores) | Rate Basis - Energy Sales (MU) | CoS - Rs/kVA/ Month |
| LT Cat I - Domestic | 319.66 | 1,182.64 | 225.24 | 15.70 | 4,468 | 0.04 |
| LT Cat II - Non-domestic | 82.21 | 304.14 | 225.24 | 3.85 | 1,082 | 0.04 |
| LT Cat III (A & B) - Industrial | 47.78 | 176.77 | 225.24 | 3.17 | 877 | 0.04 |
| LT Cat IV - Cottage Industries & Dhobighats | 1.73 | 6.39 | 225.24 | 0.11 | 32 | 0.04 |
| LT Cat V - Irrigation and Agriculture | 323.18 | 1,195.65 | 225.24 | 13.67 | 4,075 | 0.03 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 61.97 | 229.28 | 225.24 | 2.18 | 594 | 0.04 |
| LT Cat VII - General Purpose | 5.69 | 21.06 | 225.24 | 0.20 | 55 | 0.04 |
| LT Cat VIII - Temporary | 0.12 | 0.43 | 225.24 | 0.00 | 1 | 0.04 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 99.00 | 554.77 | 148.71 | 2.68 | 860 | 0.03 |
| HT Cat I - Industry - General (33 kV) | 32.63 | 831.92 | 32.69 | 6.41 | 2,200 | 0.03 |
| HT Cat I - Industry - General (220/132 kV) | 0.00 | | NA | 2.71 | 936 | 0.03 |
| HT Cat II - Industry - Other (11 kV) | 44.55 | 249.66 | 148.71 | 1.16 | 376 | 0.03 |
| HT Cat II - Industry - Other (33 kV) | 0.71 | 18.10 | 32.69 | 0.16 | 54 | 0.03 |
| HT Cat II - Industry - Other (220/132 kV) | 0.00 | | NA | 0.00 | 0 | NA |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 3.97 | 22.26 | 148.71 | 0.15 | 48 | 0.03 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.21 | 5.31 | 32.69 | 0.03 | 12 | 0.03 |
| HT Cat V - Railway Traction (EHT) | 0.00 | | NA | 1.68 | 579 | 0.03 |
| HT Cat VI - Colony Consumption | 5.84 | 32.71 | 148.71 | 0.18 | 58 | 0.03 |
| HT Rural Co-operatives (11 kV) | 10.75 | 60.26 | 148.71 | 0.78 | 265 | 0.03 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | NA | 0.00 | 0 | NA |
| HT Temporary | 0.01 | 0.04 | 148.71 | 0.00 | 0 | 0.03 |
| Open Access - 33 kV | 0.00 | 0.00 | NA | | | |
| Open Access - 11 kV | 0.00 | 0.00 | NA | | | |
| TOTAL | 1,040.00 | 4,891.38 | 177.18 | 54.83 | 16,572 | 0.03 |

| SPDCL | Cost Allocation (Rs Crores) | | | | |
|--|-----------------------------|------------|------------|----------|----------|
| | Demand - G | Demand - T | Demand - D | Energy | Customer |
| LT | Rs Crores | | | | |
| LT Cat I - Domestic | 747.67 | 27.95 | 319.66 | 892.48 | 0.00 |
| LT Cat II - Non-domestic | 191.91 | 7.27 | 82.21 | 218.79 | 0.00 |
| LT Cat III (A & B) - Industrial | 108.36 | 4.46 | 47.78 | 180.30 | 0.00 |
| LT Cat IV - Cottage Industries & Dhobighats | 3.89 | 0.16 | 1.73 | 6.49 | 0.00 |
| LT Cat V - Irrigation and Agriculture | 114.25 | 26.63 | 323.18 | 777.26 | 0.00 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 111.42 | 5.53 | 61.97 | 123.96 | 0.00 |
| LT Cat VII - General Purpose | 10.23 | 0.51 | 5.69 | 11.35 | 0.00 |
| LT Cat VIII - Temporary | 0.21 | 0.01 | 0.12 | 0.24 | 0.00 |
| HT | 0.00 | | | | |
| HT Cat I - Industry - General (11 kV) | 87.11 | 59.28 | 99.00 | 152.11 | 0.00 |
| HT Cat I - Industry - General (33 kV) | 200.74 | 88.90 | 32.63 | 364.53 | 0.00 |
| HT Cat I - Industry - General (220/132 kV) | 71.55 | 30.34 | 0.00 | 154.16 | 0.00 |
| HT Cat II - Industry - Other (11 kV) | 38.06 | 26.68 | 44.55 | 65.77 | 0.00 |
| HT Cat II - Industry - Other (33 kV) | 5.31 | 1.93 | 0.71 | 8.94 | 0.00 |
| 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) | 3.50 | 0.51 | 3.97 | 8.36 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.29 | 0.12 | 0.21 | 1.91 | 0.00 |
| HT Cat V - Railway Traction (EHT) | 75.95 | 51.90 | 0.00 | 95.37 | 0.00 |
| HT Cat VI - Colony Consumption | 8.41 | 3.44 | 5.84 | 10.31 | 0.00 |
| HT Rural Co-operatives (11 kV) | 16.68 | 1.34 | 10.75 | 44.41 | 0.00 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT Temporary | 0.03 | 0.00 | 0.01 | 0.04 | 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 |
| TOTAL | 1,795.58 | 336.95 | 1,040.00 | 3,116.81 | 0.00 |

| SPDCL | Cost Allocation (Rs Cr.) | | | Total Cost | Sales | CoS |
|--|--------------------------|-----------------|-------------|-----------------|------------------|-------------|
| | Demand | Energy | Customer | | | |
| LT | Rs Crores | | | Rs Crores | MUs | Rs/Unit |
| LT Cat I - Domestic | 1,095.28 | 892.48 | 0.00 | 1,987.77 | 4,468.26 | 4.45 |
| LT Cat II - Non-domestic | 281.39 | 218.79 | 0.00 | 500.18 | 1,081.50 | 4.62 |
| LT Cat III (A & B) - Industrial | 160.60 | 180.30 | 0.00 | 340.90 | 877.41 | 3.89 |
| LT Cat IV - Cottage Industries & Dhobighats | 5.78 | 6.49 | 0.00 | 12.27 | 31.70 | 3.87 |
| LT Cat V - Irrigation and Agriculture | 464.06 | 777.26 | 0.00 | 1,241.32 | 4,074.52 | 3.05 |
| LT Cat VI - Local Bodies, St. Lighting & PWS | 178.93 | 123.96 | 0.00 | 302.89 | 594.50 | 5.09 |
| LT Cat VII - General Purpose | 16.43 | 11.35 | 0.00 | 27.78 | 54.61 | 5.09 |
| LT Cat VIII - Temporary | 0.34 | 0.24 | 0.00 | 0.58 | 1.12 | 5.20 |
| HT | | | | | | |
| HT Cat I - Industry - General (11 kV) | 245.39 | 152.11 | 0.00 | 397.50 | 859.89 | 4.62 |
| HT Cat I - Industry - General (33 kV) | 322.27 | 364.53 | 0.00 | 686.80 | 2,200.38 | 3.12 |
| HT Cat I - Industry - General (220/132 kV) | 101.88 | 154.16 | 0.00 | 256.05 | 935.92 | 2.74 |
| HT Cat II - Industry - Other (11 kV) | 109.28 | 65.77 | 0.00 | 175.05 | 375.81 | 4.66 |
| HT Cat II - Industry - Other (33 kV) | 7.96 | 8.94 | 0.00 | 16.90 | 53.95 | 3.13 |
| HT Cat II - Industry - Other (220/132 kV) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT Cat IV - Irrigation & Agriculture (11 kV) | 7.98 | 8.36 | 0.00 | 16.34 | 47.99 | 3.41 |
| HT Cat IV - Irrigation & Agriculture (33 kV) | 0.61 | 1.91 | 0.00 | 2.53 | 11.56 | 2.19 |
| HT Cat V - Railway Traction (EHT) | 127.85 | 95.37 | 0.00 | 223.23 | 579.01 | 3.86 |
| HT Cat VI - Colony Consumption | 17.69 | 10.31 | 0.00 | 28.00 | 58.47 | 4.79 |
| HT Rural Co-operatives (11 kV) | 28.77 | 44.41 | 0.00 | 73.18 | 265.00 | 2.76 |
| HT Rural Co-operatives (33 kV) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HT Temporary | 0.04 | 0.04 | 0.00 | 0.08 | 0.24 | 3.20 |
| Open Access - 33 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Open Access - 11 kV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 3,172.52 | 3,116.81 | 0.00 | 6,289.34 | 16,571.85 | 3.80 |