

Wheeling Tariffs
FY2009-10 to FY2013-14
and
Retail Supply Tariffs
FY2009-10



Order

20th March 2009

Andhra Pradesh
Electricity Regulatory Commission
Singareni Bhavan, Red Hills, Lakdi-Ka-Pool,
Hyderabad - 500 004



**ANDHRA PRADESH ELECTRICITY
REGULATORY COMMISSION**

Singareni Bhavan, Red Hills, Lakdi-ka-pool, Hyderabad - 04

TARIFF ORDER

Wheeling Tariffs

FY2009-10

FY2010-11

FY2011-12

FY2012-13

FY2013-14

Retail Supply Tariffs

FY 2009-10

In the Supply Areas of

**CENTRAL POWER DISTRIBUTION COMPANY OF A P LTD
EASTERN POWER DISTRIBUTION COMPANY OF A P LTD
NORTHERN POWER DISTRIBUTION COMPANY OF A P LTD
SOUTHERN POWER DISTRIBUTION COMPANY OF A P LTD**

20th March 2009

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**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
Hyderabad**

Present

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

Dated: 20-03-2009

O.P No: 17 of 2008
Central Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 20 of 2008
Eastern Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 18 of 2008
Northern Power Distribution Company of Andhra Pradesh Limited
and

O.P No: 19 of 2008
Southern 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 06.02.2009 at Hyderabad (O P No: 17 Of 2008), on 13.02.2009 at Visakhapatnam (O P No: 20 of 2008), on 05.02.2009 at Warangal (O P No: 18 of 2008), and on 09.02.2009 at Ongole (O P No: 19 of 2008), and having stood over for consideration till this day, the Commission passed the following common

ORDER

CHAPTER-I INTRODUCTION

General

1. The four Distribution Companies (hereinafter referred to as the 'distribution Licensees' or 'DISCOMs' or 'Licensees') namely, the Eastern Power Distribution Company of A.P Limited (hereinafter, 'APEPDCL' or 'EPDCL'), the Central Power Distribution Company of A.P Limited (APCPDCL/CPDCL), the Northern Power Distribution Company of A.P Limited (APNPDCL/NPDCL), and the Southern Power Distribution Company of A.P Limited (APSPDCL/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), to determine the tariff for wheeling and retail sale of electricity u/s 62 of the Electricity Act 2003(Act), notified on 14.11.2005, the APERC (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005. (Regulation 4 of 2005). As per this Regulation 4 of 2005, each distribution Licensee has to make the filings for determination of tariff for a) Wheeling (Wheeling Tariff henceforth) and b) Retail Sale of Electricity (Retail Supply Tariff henceforth) for Multi Year Tariff (MYT) Control Period of 5 years from 2009-10 to 2013-14(Control Period henceforth).

Filings for Determination of Wheeling and Retail Supply Tariff

3. The Licensees submitted the Aggregate Revenue Requirement (ARR) of distribution and retail supply businesses for determination of the wheeling and retail supply tariffs, on 29.11.2008. The Licensees made filings for determination of wheeling tariff for the Control Period as envisaged in the Regulation 4 of 2005. The Licensees requested for permission to file retail supply tariff filings for one year, i.e. 2009-10(instead of five years) only, in view of certain policy uncertainties and pending tariff fixation for few generating stations, with which reasonable prediction cannot be made for five years. The Licensees' request to file the retail supply tariff proposals for one year, i.e.FY2009-10 has been accepted and

accordingly, the Licensees filed the application for determination of retail supply tariff for FY2009-10.

4. The Aggregate Revenue Requirement (ARR) and tariff proposals relating to the Distribution business for the control period, 2009-10 to 2013-14, and Retail Supply Business for FY 2009-10, submitted by the four Distribution Companies viz., APCPDCL, APEPDCL, APNPDCL and APSPDCL separately were taken on record.
5. Based on the filings, the wheeling tariffs for each year of the Control Period of five years, from FY2009-10 to FY2013-14, and Retail Supply Tariff for FY2009-10 need to be determined after considering the objections/suggestions received/heard from general public and all other stakeholders on these filings.

Notification Calling for objections/suggestions

6. The Licensees were directed to serve public notices through publication on 24.12.2008, in two daily newspapers in English and two in Telugu having circulation in their respective areas, informing the general public that they had filed their respective ARR and Tariff proposals for the second control period 2009-10 to 2013-14 in respect of their distribution business, and for FY 2009 -10 in respect of retail supply business, with the Commission and that copies of the filings (together with supporting materials) were available in the offices of the Chief General Manager, RAC, of the Licensees with headquarters at Hyderabad (APCPDCL - O P No: 17 of 2008), Vishakhapatnam (APEPDCL - O P No: 20 of 2008) Warangal (APNPDCL-O P No: 18 of 2008) and Tirupathi (APSPDCL-O P No: 19 of 2008) and all Superintending Engineers in charge of operation circles, for inspection/perusal/purchase by interested persons and that objections/ suggestions could be filed on these proposals with the Secretary, APERC, by 27.01.2009.

Objections/Suggestions Received

7. Following the public notice, 404 Persons/organizations (including the common objections/suggestions filed against the filings of four Licensees) sent their objections/suggestions to Secretary, APERC, on the ARR/Tariff proposals of Licensees by due date. The list of objectors is given in Annexure-B to this Order. The Commission directed the Licensees to send replies to all the public objections by 02-02-2009 and also provide a copy of the same to the respective objectors by the same date, duly posting all of them on their respective websites.

Notice of public hearings, as detailed in Table 1, was given to the four Licensees and the Government of Andhra Pradesh(GOAP):

Table 1 Programme of Public Hearings on ARRs/Tariff Filings

Date	Place of hearing	Time	Venue	Licensee (s) on whose filings the hearings were held
05.02.2009	Warangal	10.30 AM to 1.30 PM And 2.30 PM to 5.00 PM	Auditorium, University Arts & Science College, Warangal	APNPDCL
06.02.2009	Hyderabad	10.30 AM to 1.30 PM And 2.30 PM to 5.00 PM	FAPCCI Hall, Red Hills, Lakdi-ka-pul Hyderabad	APCPDCL
09.02.2009	Ongole	10.30 AM to 1.30 PM And 2.30 PM to 5.00 PM	Balaji Tirupathi Rao Kalyana Mandapam, South Bypass Road, Ongole	APSPDCL
13.02.2009	Vishakhapatnam	10.30 AM to 1.30 PM And 2.30 PM to 5.00 PM	VUDA Children's Auditorium, Siripuram, Vishakhapatnam	APEPDCL

8. All persons who had expressed their desire to be heard in person were also intimated in writing the dates on which they would be heard. General public were also informed of the dates of public hearings on 28.01.2009 through a press release. At the hearings, all persons /organizations who earlier had not requested for being heard in person were also accommodated. The Licensee-wise break -up of objections received and the number of objectors desired to be heard in person are indicated in Table 2.

Table 2: Number of Objections/Suggestions Received on ARR / Tariff Filings

DISCOM	Objections Received	Objectors desired to be heard	Objectors Attended Hearings
APCPDCL	239	230	21
APNPDCL	48	39	5
APEPDCL	44	37	12
APSPDCL	160	149	14
Total	491	455	52

Public Hearings

9. During the hearings,
 - a) The Licensees made brief opening presentations at the commencement of the public hearings on their respective filings;
 - b) then, the Commission heard all the objectors who desired to be heard in person, and
 - c) the respective Licensees responded on the issues raised by the objectors during the hearing, as directed by the Commission.

Statement by Government of Andhra Pradesh(GoAP)

10. The Joint Secretary, Energy, GoAP standing in for the Special Chief Secretary, Energy, GoAP, made a statement before the Commission during the Hearing on 09.02.2009 (at Ongole) expressing the views of GoAP, which are given in Chapter-IV.

Meeting with State Advisory Committee

11. Some of the important issues relating to the ARR/Tariff proposals of Licensees were discussed in the State Advisory Committee (SAC) meeting held on 19.01.2009 and the Commission while finalizing the Tariff Order has taken suggestions made by the members of SAC into consideration.

CHAPTER-II SUMMARY OF TARIFF FILINGS

PART-A: WHEELING TARIFFS

General

12. The four distribution Licensees, CPDCL, EPDCL, NPDCL and SPDCL, estimated the Aggregate Revenue Requirement (ARR), i.e. the revenue requirement to meet the estimated distribution cost, for each year of the Control Period from FY2009-10 to FY2013-14. The estimated ARR is the basis for computation of the wheeling charges for each year of the Control Period.
13. The Licensees used the estimated ARR to compute the wheeling charge at three voltages, 33 kV, 11 kV and LT and proposed these computed charges to be collected from users of distribution system in their respective licensed areas.
14. The Licensees also proposed voltage wise losses in percent at three voltages, 33 kV, 11 kV and LT to be paid in kind by the users of the distribution system in their respective licensed areas.
15. The important parts of the filing related to wheeling tariff are;
 - a) Aggregate Revenue Requirement
 - b) Investments
 - c) Proposed Wheeling Charge
 - d) Proposed Distribution Losses, and
 - e) Distribution loss reduction trajectory
16. The filings made by the Licensees with the Commission for determination of wheeling tariff are summarized separately for each Distribution Licensee.

WHEELING TARIFF FILINGS:CENTRAL POWER DISTRIBUTION COMPANY LTD(CPDCL)

Gross ARR

17. CPDCL filed the gross ARR for distribution business at Rs.11320.76 Cr. for the Control Period while giving the details for each year. The major components of the estimated gross ARR are a) Operation and Maintenance (O&M) Expenses at Rs.5508.45 Cr. b) Depreciation at Rs.3091.07 Cr. and c) Return on Capital Employed (ROCE) at Rs.2704.74 Cr. for the Control Period. Adding the estimated taxes on income to these major components of ARR, the gross ARR is placed at

Rs.11320.76 Cr. for the Control Period. The details of the gross ARR filed by CPDCL for each year of the Control Period are given in Table 3.

Table 3: CPDCL Filings: Gross ARR for Distribution Business

(Rs Cr)

Financial Year	Gross O&M Expenses	Depreciation	Return on Capital Employed	Taxes on Income	Gross ARR Amount
1	2	3	4	5	6=(2+3+4+5)
2009-10	799.55	382.92	292.90	3.30	1478.67
2010-11	930.81	501.06	425.67	3.30	1860.84
2011-12	1080.06	625.35	552.51	3.30	2261.22
2012-13	1248.96	730.05	663.54	3.30	2645.85
2013-14	1449.08	851.69	770.13	3.30	3074.20
Total	5508.45	3091.07	2704.74	16.50	11320.76
Figures are rounded					

Net ARR

18. CPDCL estimated the O&M expenses to be capitalized at Rs.678.36 Cr. based on forecasted O&M expenses and adopted capitalization procedures for the Control Period. CPDCL estimated the Non Tariff Income (NTI), i.e. revenue through sources other than tariff, at Rs.68.56 Cr. for the Control Period. The net ARR is computed at Rs.10573.83 Cr. after deduction of a) O&M expenses to be capitalized and b) NTI, for each year of the Control Period. It is stated that the net ARR amount will be transferred as distribution cost to retail supply business. The details of net ARR filed are given in Table 4.

Table 4: CPDCL Filings: Net ARR for Distribution Business

(Rs Cr)

Financial Year	Gross ARR Amount	Less		Net ARR Amount
		O&M Expenses Capitalized	Non-Tariff Income	
1	2	3	4	5=(2-3-4)
2009-10	1478.67	146.09	18.90	1313.67
2010-11	1860.84	133.85	16.17	1710.82
2011-12	2261.22	123.64	13.54	2124.04
2012-13	2645.85	127.84	11.09	2506.92
2013-14	3074.20	146.94	8.86	2918.39
Total	11320.76	678.36	68.56	10573.83
Figures are rounded				

Investments

19. CPDCL proposed to invest a sum of **Rs.8173.57 Cr.** in distribution business during the Control Period. CPDCL provided the details for each investment scheme proposed during the Control Period. The proposed investment level is based on details of

resource (network expansion and strengthening) plan incorporated in the filings. The details of the proposed investments by CPDCL are given in Table 5.

Table 5: CPDCL Filings: Proposed Investments

(Rs Cr)

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	1520.89	146.09	38.30	1705.27
2010-11	1391.96	133.85	37.68	1563.49
2011-12	1353.77	123.64	47.36	1524.76
2012-13	1403.65	127.84	44.71	1576.20
2013-14	1612.24	146.94	44.65	1803.84
Total	7282.52	678.36	212.69	8173.57

Figures are rounded

Wheeling Tariff

20. The proposed wheeling tariff consist of a) Wheeling Charge b) Distribution losses in kind at three voltage levels, 33 kV, 11 kV and Low Tension (LT). Any person who utilizes the distribution system to wheel the electricity is expected to pay the wheeling charge and compensate CPDCL for distribution losses in kind at proposed level for each year of the Control Period.

Wheeling Charge

21. The estimated net ARR is apportioned among three voltage classes based on different factors such as assets, number of consumers, substations and line lengths etc. Using the apportioned ARR with contracted kVA at 33 kV and 11 kV and energy handled at LT, CPDCL computed and proposed to levy the wheeling charges in terms of a) Wheeling Charge, Rs/kVA/Month for consumers at 33 kV & 11 kV and in Rs/kWh for consumers at LT for each year of the Control Period.

Distribution Loss

22. CPDCL proposed the distribution losses in percent at three voltages, 33 kV, 11 kV and LT, for each year of the Control Period. The loss percentage proposed is based on estimated energy handled and losses at respective voltage with respect to total input for each year of the Control period. The details of proposed wheeling charges and losses are given in Table 6.

Table 6: CPDCL Filings: Wheeling Tariff for the Control Period

Voltage	33 kV		11 kV		Low Tension	
	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kWh	Loss in kind
2009-10	40.53	4.01%	233.53	5.79%	0.54	8.18%
2010-11	49.12	3.98%	266.18	5.74%	0.64	7.64%
2011-12	55.77	3.97%	308.64	5.68%	0.70	7.11%
2012-13	58.85	3.94%	326.10	5.61%	0.75	6.40%
2013-14	62.53	3.92%	335.21	5.50%	0.79	5.53%

Loss Reduction Trajectory

23. CPDCL filed the loss reduction trajectory across years during the Control period. The details are given for each voltage level, and the aggregate loss trajectory is given with and without Extra High Tension (EHT) sales. The distribution loss is expected to decline from 17.97 percent in 2009-10 to 14.94 percent by 2013-14. The details filed by CPDCL are given in Table 7.

Table 7: CPDCL Filings: Distribution Loss Trajectory for the Control Period

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
With EHT Sales	15.27%	14.50%	14.01%	13.38%	12.58%
Without EHT Sales	17.97%	17.39%	16.76%	15.95%	14.94%

WHEELING TARIFF FILINGS: EASTERN POWER DISTRIBUTION COMPANY LTD(EPDCL)

Gross ARR

24. EPDCL filed the gross ARR for distribution business at Rs.4561.05 Cr. for the Control Period while giving the details for each year. The major components of the estimated gross ARR are a) Operation and Maintenance (O&M) Expenses at Rs.2555.76 Cr. b) Depreciation at Rs.1065.04 Cr. and c) Return on Capital Employed (ROCE) at Rs.905.36 Cr. for the Control Period. Adding the estimated taxes on income and special appropriation amount requested for safety measures to these major components of ARR, the gross ARR is placed at Rs.4561.05 Cr. for the Control Period. The details of the gross ARR filed by EPDCL for each year of the Control Period are given in Table 8.

Table 8: EPDCL Filings: Gross ARR for Distribution Business

<i>(Rs Cr)</i>						
Financial Year	Gross O&M Expenses	Depreciation	Return on Capital Employed	Taxes on Income	Special Appr. Amount	Gross ARR Amount
1	2	3	4	5	6	7
2009-10	385.95	157.84	132.78	1.98	5.00	683.54
2010-11	440.51	185.82	157.54	1.98	5.00	790.85
2011-12	502.50	215.01	180.19	1.98	5.00	904.68
2012-13	573.30	238.52	201.51	1.98	5.00	1020.31
2013-14	653.51	267.84	233.34	1.98	5.00	1161.67
Total	2555.76	1065.04	905.36	9.89	25.00	4561.05

Figures are rounded

Net ARR

25. EPDCL estimated the O&M expenses to be capitalized at Rs.207.80 Cr. based on forecasted O&M expenses and adopted capitalization procedures for the Control Period. The net ARR is computed at Rs.4353.25 Cr. after deduction of O&M expenses to be capitalized for each year of the Control Period. It is stated that the net ARR amount will be transferred as distribution cost to retail supply business. The details of net ARR filed with the Commission are given in Table 9.

Table 9: EPDCL Filings: Net ARR for Distribution Business

(Rs Cr)

Financial Year	Gross ARR Amount	Less		Net ARR Amount
		O&M Expenses Capitalized	Non-Tariff Income	
1	2	3	4	5=(2-3-4)
2009-10	683.54	49.30	0.00	634.24
2010-11	790.85	36.20	0.00	754.65
2011-12	904.68	39.10	0.00	865.58
2012-13	1020.31	39.80	0.00	980.51
2013-14	1161.67	43.40	0.00	1118.27
Total	4561.05	207.80	0.00	4353.25

Figures are rounded

Investments

26. EPDCL proposed to invest a sum of Rs.2313.48 Cr. in distribution business during the Control Period. EPDCL provided the details for each investment scheme proposed during the Control Period. The proposed investment level is based on details of resource (network expansion and strengthening) plan incorporated in the filings. The details of the proposed investments by EPDCL are given in Table 10.

Table 10: EPDCL Filings: Proposed Investments

(Rs Cr)

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	493.00	49.30	5.64	547.94
2010-11	362.00	36.20	4.81	403.01
2011-12	391.00	39.10	4.56	434.66
2012-13	398.00	39.80	5.63	443.43
2013-14	434.00	43.40	7.04	484.44
Total	2078.00	207.80	27.68	2313.48

Figures are rounded

Wheeling Tariff

27. The proposed wheeling tariff consist of a) Wheeling Charge b) Distribution losses in kind at three voltage levels, 33 kV, 11 kV and Low Tension (LT). Any person who

utilizes the distribution system to wheel the electricity is expected to pay the wheeling charge and compensate EPDCL for distribution losses in kind at proposed level for each year of the Control Period.

Wheeling Charge

28. The estimated net ARR is apportioned among three voltage classes based on different factors such as assets, number of consumers, substations and line lengths etc. Using the apportioned ARR with contracted kVA at 33 kV and 11 kV and energy handled at LT, EPDCL computed and proposed to levy the wheeling charges in terms of a) Wheeling Charge, Rs/kVA/Month for consumers at 33 kV & 11 kV and in Rs/kWh for consumers at LT for each year of the Control Period.

Distribution Loss

29. EPDCL proposed the distribution losses in percent at three voltages, 33 kV, 11 kV and LT for each year of the Control Period. The loss percentage proposed is based on estimated energy handled and losses at respective voltage with respect to total input for each year of the Control Period. The details of proposed wheeling charges and losses are given in Table 11.

Table 11: EPDCL Filings: Wheeling Tariff for the Control Period

Voltage	33 kV		11 kV		Low Tension	
	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kWh	Loss in kind
2009-10	22.25	3.56%	193.19	3.85%	1.00	3.77%
2010-11	24.92	3.50%	216.00	3.82%	1.09	3.64%
2011-12	26.95	3.51%	231.78	3.76%	1.15	3.47%
2012-13	28.17	3.42%	243.07	3.71%	1.19	3.40%
2013-14	29.94	3.34%	257.07	3.67%	1.25	3.31%

Loss Reduction Trajectory

30. EPDCL filed the loss reduction trajectory across years during the Control Period. The details are given for each voltage level, and the aggregate loss trajectory is given with and without Extra High Tension (EHT) sales. The distribution loss is expected to decline from 11.19 percent in 2009-10 to 10.32 percent by 2013-14. The details filed by EPDCL are given in Table 12.

Table 12: EPDCL Filings: Distribution Loss Trajectory for the Control Period

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
With EHT Sales	8.93%	8.74%	8.54%	8.35%	8.16%
Without EHT Sales	11.19%	10.96%	10.74%	10.53%	10.32%

WHEELING TARIFF FILINGS: NORTHERN POWER DISTRIBUTION COMPANY LTD(NPDCL)

Gross ARR

31. NPDCL filed the gross ARR for distribution business at Rs.5564.78 Cr. for the Control Period while giving the details for each year. The major components of the estimated gross ARR are a) Operation and Maintenance (O&M) Expenses at Rs.2249.58 Cr. b) Depreciation at Rs.1547.94 Cr. and c) Return on Capital Employed (ROCE) at Rs.1630.32 Cr. for the Control Period. Adding the estimated taxes on income and special appropriation amount requested for safety measures to these major components of ARR, the gross ARR is placed at Rs.5564.78 Cr. for the Control Period. The details of the gross ARR filed by NPDCL for each year of the Control Period are given in Table 13.

Table 13:NPDCL Filings: Gross ARR for Distribution Business

<i>(Rs Cr)</i>							
Financial Year	Gross O&M Expenses	Depreciation	Return on Capital Employed	Taxes on Income	Other Expenditure	Special Appr. Amount	Gross ARR Amount
1	2	3	4	5	6	7	8
2009-10	343.64	203.68	210.71	3.99	1.42	30.00	793.44
2010-11	392.01	260.08	278.41	9.53	1.49	30.00	971.52
2011-12	449.37	317.93	337.86	14.08	1.56	0.00	1120.81
2012-13	502.86	366.66	389.97	18.59	1.64	0.00	1279.73
2013-14	561.70	399.59	413.36	22.91	1.72	0.00	1399.28
Total	2249.58	1547.94	1630.32	69.10	7.84	60.00	5564.78
Figures are rounded							

Net ARR

32. NPDCL estimated the O&M expenses to be capitalized at Rs.275.44 Cr. based on forecasted O&M expenses and adopted capitalization procedures for the Control Period. NPDCL estimated the Non Tariff Income (NTI), i.e. revenue through sources other than tariff, at Rs.213.70 Cr. for the Control Period. The net ARR is computed at Rs.5075.64 Cr. after deduction of a) O&M expenses to be capitalized and b) NTI, for each year of the Control Period. It is stated that the net ARR

amount will be transferred as distribution cost to retail supply business. The details of net ARR filed are given in Table 14.

Table 14: NPDCL Filings: Net ARR for Distribution Business

(Rs Cr)

Financial Year	Gross ARR Amount	Less		Net ARR Amount
		O&M Expenses Capitalized	Non-Tariff Income	
1	2	3	4	5=(2-3-4)
2009-10	793.44	77.96	33.74	681.74
2010-11	971.52	63.44	38.99	869.09
2011-12	1120.81	67.49	43.14	1010.18
2012-13	1279.73	32.76	47.10	1199.86
2013-14	1399.28	33.79	50.73	1314.76
Total	5564.78	275.44	213.70	5075.64

Figures are rounded

Investments

33. NPDCL proposed to invest a sum of Rs.3282.27 Cr. in distribution business during the Control Period. NPDCL provided the details for each investment scheme proposed during the Control Period. The proposed investment level is based on details of resource (network expansion and strengthening) plan incorporated in the filings. The details of the proposed investments by NPDCL are given in Table 15.

Table 15: NPDCL Filings: Proposed Investments

(Rs Cr)

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	779.58	77.96	63.30	920.84
2010-11	634.39	63.44	58.92	756.75
2011-12	674.85	67.49	62.37	804.71
2012-13	327.65	32.76	37.60	398.01
2013-14	337.89	33.79	30.28	401.96
Total	2754.36	275.44	252.48	3282.27

Figures are rounded

Wheeling Tariff

34. The proposed wheeling tariff consist of a) Wheeling Charge b) Distribution losses in kind at three voltage levels, 33 kV, 11 kV and Low Tension (LT). Any person who utilizes the distribution system to wheel the electricity is expected to pay the

wheeling charge and compensate NPDCL for distribution losses in kind at proposed level for each year of the Control Period.

Wheeling Charge

35. The estimated net ARR is apportioned among three voltage classes based on different factors such as assets, number of consumers, substations and line lengths etc. Using the apportioned ARR with contracted kVA at 33 kV and 11 kV and energy handled at LT, NPDCL computed and proposed to levy the wheeling charges in terms of a) Wheeling Charge, Rs/kVA/Month for consumers at 33 kV & 11 kV and in Rs/kWh for consumers at LT for each year of the Control Period.

Distribution Loss

36. NPDCL proposed the distribution losses in percent at three voltages, 33 kV, 11 kV and LT, for each year of the Control Period. The loss percentage proposed is based on estimated energy handled and losses at respective voltage with respect to total input for each year of the Control Period. The details of proposed wheeling charges and losses are given in Table 16.

Table 16: NPDCL Filings: Wheeling Tariff for the Control Period

Voltage	33 kV		11 kV		Low Tension	
	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kWh	Loss in kind
2009-10	15.48	4.83%	147.63	4.71%	0.98	7.63%
2010-11	17.84	4.70%	171.89	4.60%	1.17	7.43%
2011-12	17.93	4.58%	181.10	4.46%	1.28	7.19%
2012-13	18.37	4.40%	190.63	4.31%	1.42	6.94%
2013-14	17.64	4.23%	184.50	4.15%	1.46	6.67%

Loss Reduction Trajectory

37. NPDCL filed the loss reduction trajectory across years during the Control Period. The details are given for each voltage level and the aggregate loss trajectory is given with and without Extra High Tension (EHT) sales. The distribution loss is expected to decline from 17.18 percent in 2009-10 to 15.05 percent by 2013-14. The details filed by the Company are given in Table 17.

Table 17: NPDCL Filings: Distribution Loss Trajectory for the Control Period

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
With EHT Sales	14.34%	14.07%	13.12%	12.25%	11.91%
Without EHT Sales	17.18%	16.73%	16.23%	15.65%	15.05%

WHEELING TARIFF FILINGS: SOUTHERN POWER DISTRIBUTION COMPANY LTD (SPDCL)

Gross ARR

38. SPDCL filed the gross ARR for distribution business at Rs.8343.94 Cr. for the Control Period while giving the details for each year. The major components of the estimated gross ARR are a) Operation and Maintenance (O&M) Expenses at Rs.3703.56 Cr. b) Depreciation at Rs.2246.93 Cr. and c) Return on Capital Employed (ROCE) at Rs.1970.32 Cr. for the Control Period. Adding the estimated taxes on income and other expenditure amount requested to these major components of ARR, the gross ARR is placed at Rs.8343.94 Cr. for the Control Period. The details of the gross ARR filed by SPDCL for each year of the Control Period are given in Table 18.

Table 18: SPDCL Filings: Gross ARR for Distribution Business

(Rs Cr)

Financial Year	Gross O&M Expenses	Depreciation	Return on Capital Employed	Taxes on Income	Other Expenditure	Gross ARR Amount
1	2	3	4	5	6	7
2009-10	555.22	304.79	272.82	5.12	70.56	1208.51
2010-11	639.60	380.57	343.61	4.61	75.50	1443.88
2011-12	737.73	459.10	411.88	4.09	80.78	1693.58
2012-13	832.09	531.45	462.75	2.03	86.44	1914.77
2013-14	938.92	571.02	479.26	1.52	92.49	2083.21
Total	3703.56	2246.93	1970.32	17.36	405.77	8343.94

Figures are rounded

Net ARR

39. SPDCL estimated the O&M expenses to be capitalized at Rs.371.80 Cr. based on forecasted O&M expenses and adopted capitalization procedures for the Control Period. SPDCL estimated the Non Tariff Income (NTI), i.e. revenue through sources other than tariff, at Rs.423.54 Cr. for the Control Period. The net ARR is computed at Rs.7548.60 Cr. after deduction of a) O&M expenses to be capitalized and b) NTI, for each year of the Control Period. It is stated that the net ARR amount will be transferred as distribution cost to retail supply business. The details of net ARR filed are given in Table 19.

Table 19: SPDCL Filings: Net ARR for Distribution Business*(Rs Cr)*

Financial Year	Gross ARR Amount	Less		Net ARR Amount
		O&M Expenses Capitalized	Non-Tariff Income	
1	2	3	4	5=(2-3-4)
2009-10	1208.51	93.55	76.65	1038.31
2010-11	1433.88	80.72	80.48	1282.68
2011-12	1693.58	88.30	84.51	1520.78
2012-13	1914.77	52.50	88.73	1773.53
2013-14	2083.21	56.74	93.17	1933.30
Total	8343.94	371.80	423.54	7548.60

Figures are rounded

Investments

40. SPDCL proposed to invest a sum of Rs.4421.52 Cr. in distribution business during the Control Period. SPDCL provided the details for each investment scheme proposed during the Control Period. The proposed investment level is based on details of resource (network expansion and strengthening) plan incorporated in the filings. The details of the proposed investments by SPDCL are given in Table 20.

Table 20: SPDCL Filings: Proposed Investments*(Rs Cr)*

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	935.45	93.55	68.91	1097.91
2010-11	807.20	80.72	77.36	965.28
2011-12	882.95	88.30	73.28	1044.53
2012-13	525.04	52.50	64.73	642.28
2013-14	567.37	56.74	47.42	671.53
Total	3718.01	371.80	331.71	4421.52

Figures are rounded

Wheeling Tariff

41. The proposed wheeling tariff consist of a) Wheeling Charge b) Distribution losses in kind at three voltage levels, 33 kV, 11 kV and Low Tension (LT). Any person who utilizes the distribution system to wheel the electricity is expected to pay the wheeling charge and compensate SPDCL for distribution losses in kind at proposed level for each year of the Control Period.

Wheeling Charge

42. The estimated net ARR is apportioned among three voltage classes based on different factors such as assets, number of consumers, substations and line lengths

etc. Using the apportioned ARR with contracted kVA at 33 kV and 11 kV and energy handled at LT, SPDCL computed and proposed to levy the wheeling charges in terms of a) Wheeling Charge, Rs./kVA/Month for consumers at 33 kV & 11 kV and in Rs/kWh for consumers at LT for each year of the Control Period.

Distribution Loss

43. SPDCL proposed the distribution losses in percent at three voltages, 33 kV, 11 kV and LT, for each year of the Control Period. The loss percentage proposed is based on estimated energy handled and losses at respective voltage with respect to total input for each year of the Control Period. The details of proposed wheeling charges and losses are given in Table 21.

Table 21: SPDCL Filings: Wheeling Tariff for the Control Period

Voltage	33 kV		11 kV		Low Tension	
	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kVA/Month	Loss in kind	Charge, Rs/kWh	Loss in kind
2009-10	34.51	4.87%	210.90	5.02%	1.00	4.75%
2010-11	38.50	4.81%	235.20	4.98%	1.14	4.56%
2011-12	41.28	4.75%	250.61	4.23%	1.25	5.08%
2012-13	42.09	4.68%	260.06	4.18%	1.35	4.92%
2013-14	39.84	4.65%	251.79	4.12%	1.36	4.74%

Loss Reduction Trajectory

44. SPDCL filed the loss reduction trajectory across years during the Control Period. The details are given for each voltage level, and the aggregate loss trajectory is given with and without Extra High Tension (EHT) sales. The distribution loss is expected to decline from 14.64 percent in 2009-10 to 13.50 percent by 2013-14. The details filed by SPDCL are given in Table 22.

Table 22: SPDCL Filings: Distribution Loss Trajectory for the Control Period

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
With EHT Sales	13.49%	13.16%	12.90%	12.65%	12.41%
Without EHT Sales	14.64%	14.35%	14.06%	13.78%	13.50%

Conclusion on Wheeling Tariff Filings

45. The filings made by the four distribution Licensees are broadly in conformity with the Regulation 4 of 2005 issued for the purpose of determining the wheeling tariff under section 62 of the Act. The Commission has taken the filing on record and examined it in detail with appropriate consideration of objectors' views for the purpose of determination of Wheeling Tariff and Loss Reduction Trajectory.

PART-B: RETAIL SUPPLY TARIFF

General

46. The four distribution and retail supply Licensees, CPDCL, EPDCL, NPDCL and SPDCL, estimated the Aggregate Revenue Requirement (ARR), i.e. the revenue required to meet the estimated retail supply cost, for FY2009-10. The estimated ARR is the basis for computation of the tariffs which would be levied on the retail consumers to recover the ARR during the year.
47. The Licensees proposed the existing tariff for different consumer categories without any change in charges to be levied for FY2009-10. Based on estimated ARR and estimated revenue from different consumer categories, the Licensees computed the revenue gap, i.e. the shortage of the revenue to meet the estimated ARR, for FY2009-10.
48. The Licensees also proposed certain changes related to;
 - a) Development charges
 - b) Change of category of Consumers
 - c) Certain modification to the definition of consumer categories.
49. The important parts of the filing related to retail supply tariff are;
 - a) Sales and Power Procurement
 - b) Aggregate Revenue Requirement
 - c) Revenue from Sale of Power
 - d) Revenue from Other Sources
 - e) Revenue Gap, and
 - f) Proposed Tariff Changes
50. The filings made by the Licensees for determination of retail supply tariff are summarized separately for each distribution and retail supply Licensee.

RETAIL SUPPLY TARIFF FILINGS: CENTRAL POWER DISTRIBUTION COMPANY LTD(CPDCL)

Sales and Power Procurement

51. CPDCL estimated the sale of electricity to different consumer categories at 28,959 MU for FY2009-10. The power procurement requirement to meet the estimated sales is estimated at 35938 MU for FY2009-10. The estimated power procurement is inclusive of transmission and distribution losses for FY2009-10 as per filings made by APTRANSCO and CPDCL respectively. The total power purchase

cost from various sources to meet the power procurement requirement is estimated at Rs.7745.75 Cr. for FY2009-10.

Aggregate Revenue Requirement

52. CPDCL filed the gross ARR for retail supply business for FY2009-10. While making the filings, it has;
- a) adopted the SLDC cost and Transmission cost for FY2009-10 as per the filings made by APTRANSCO for determination of charges and fee for SLDC, and transmission tariff respectively.
 - b) adopted the estimated distribution cost for FY2009-10 as per filings made by it for determination of wheeling tariff for FY2009-10 to 2013-14,
 - c) estimated sales to different consumer categories, the power procurement cost and power evacuation cost from Central Generating Stations (through PGCIL and ULDC cost), and
 - d) included the annual interest cost on consumer security deposits held by it as expense item in the ARR filings made by it as per the Regulation 4 of 2005.
53. Adding all the individual costs permitted to be recovered as per the Regulation 4 of 2005, CPDCL estimated the gross ARR for FY2009-10 at Rs.9743.28 Cr. The details of gross ARR estimated for FY2009-10 are given in Table 23.

Table 23: CPDCL Filings: Gross ARR for Retail Supply Business, 2009-10

Financial Year	Amount
SLDC Expenses	17.73
Transmission Cost	459.49
Distribution Cost	1313.67
Power Purchase	7745.75
PGCIL Expenses	129.23
ULDC Expenses	12.08
Interest on Consumer Deposits	65.32
Supply Margin	0.00
Gross ARR	9743.28
Figures are rounded	

Revenue from Sale and Other Sources

54. CPDCL estimated the revenue from sale of 28959 MU of electricity at proposed tariff and revenue from sources other than tariff (non tariff income) at Rs.7680.04 Cr. for FY2009-10. Adding the estimated net revenue from electricity trading at Rs.4.53 Cr, the total revenue from retail supply business for FY 2009-10 is placed at Rs.7684.57 Cr. The revenue estimated for each category of consumers consists of;
- a) energy charges
 - b) fixed charges
 - c) customer charges
 - d) revenue from other charges, if any

- e) non-tariff income, directly attributable to consumer class
- f) non-tariff income, apportioned to consumer class
- g) HT incentive amount as deductible item

Revenue Gap

55. With the estimated revenue requirement and revenue from all sources, CPDCL will have a revenue gap, i.e. the shortage of revenue to meet the cost, at Rs.2058.71 Cr. for FY2009-10. CPDCL did not provide any information on how it will deal with the revenue gap for FY2009-10. The details of ARR, Revenue and Revenue gap filed for FY2009-10 are given in Table 24.

Table 24: CPDCL Filings: Revenue Gap for FY2009-10

Item	Amount
1.Revenue Requirement, Rs Cr	9743.28
2.Revenue	7684.57
Revenue from Sale	7680.04
Revenue from Trading,	4.53
Revenue Gap (1-2)	2058.71
Figures are rounded	

Proposed Tariff Changes

56. CPDCL proposed certain changes in categorization of consumers without any change in charges. However, CPDCL did not quantify the revenue impact of the proposed changes in the filings. These proposals are;
- a) to delete HT Cat-IV (B):Agriculture to keep uniform tariff for all HT lift irrigation schemes,
 - b) to include Rythu Bazaars run by Government of Andhra Pradesh in LT Category VII: General, and
 - c) to incorporate certain modifications in case of a)duration for availing temporary supply and b)definition for LT Domestic and LT II: Non-Domestic categories.

RETAIL SUPPLY TARIFF FILINGS: EASTERN POWER DISTRIBUTION COMPANY LTD(EPDCL)

Sales and Power Procurement

57. EPDCL estimated the sale of electricity to different consumer categories at 9740 MU for FY2009-10. The power procurement requirement to meet the estimated sales is estimated at 11247 MU for FY2009-10. The estimated power procurement is inclusive of transmission and distribution losses for FY2009-10 as per filings made by APTRANSCO and EPDCL respectively. The total power purchase cost from various sources to meet the power procurement requirement is estimated at Rs.2639.27 Cr. for FY2009-10.

Aggregate Revenue Requirement

58. EPDCL filed the gross ARR for retail supply business for FY2009-10. While making the filings, it has;
- adopted the SLDC cost and Transmission cost for FY2009-10 as per the filings made by APTRANSCO for determination of charges and fee for SLDC, and transmission tariff respectively.
 - adopted the estimated distribution cost for FY2009-10 as per filings made by it for determination of wheeling tariff for FY2009-10 to 2013-14,
 - estimated sales to different consumer categories, the power procurement cost and power evacuation cost from Central Generating Stations (through PGCIL and ULDC cost), and
 - included the annual interest cost on consumer security deposits held by it as expense item in the ARR filings made by it as per the Regulation 4 of 2005.
59. Adding all the individual costs permitted to be recovered as per the Regulation 4 of 2005, EPDCL estimated the gross ARR for FY2009-10 at Rs.3523.93 Cr. The details of gross ARR estimated for FY2009-10 are given in Table 25.

Table 25: EPDCL Filings: Gross ARR for Retail Supply Business, 2009-10

Financial Year	Amount
SLDC Expenses	6.29
Transmission Cost	162.97
Distribution Cost	634.24
Power Purchase	2639.27
PGCIL Expenses	44.33
ULDC Expenses	4.14
Interest on Consumer Deposits	32.68
Supply Margin	0.00
Gross ARR	3523.93

Figures are rounded

Revenue from Sale and Other Sources

60. EPDCL estimated the revenue from sale of 9740 MU of electricity at proposed tariff and revenue from sources other than tariff (non tariff income) at **Rs.2739.48 Cr.** for FY2009-10. Adding the estimated net revenue from electricity trading at **Rs.200.69 Cr.**, the total revenue from retail supply business for FY 2009-10 is placed at **Rs.2940.17 Cr.** The revenue estimated for each category of consumers consists of;
- energy charges
 - fixed charges
 - customer charges
 - revenue from other charges, if any
 - non-tariff income, directly attributable to consumer class
 - non-tariff income, apportioned to consumer class
 - HT incentive amount as deductible item

Revenue Gap

61. With the estimated revenue requirement and revenue from all sources, EPDCL will have a revenue gap, i.e. the shortage of revenue to meet the cost, at Rs.583.76 Cr. for FY2009-10. EPDCL did not provide any information on how it will deal with the revenue gap for FY2009-10. The details of ARR, Revenue and Revenue gap filed for FY2009-10 are given in Table 26.

Table 26: EPDCL Filings: Revenue Gap for FY2009-10

Item	Amount
1.Revenue Requirement	3523.93
2.Revenue	2940.17
Revenue from Sale	2739.48
Revenue from Trading,	200.69
Revenue Gap (1-2)	583.76
Figures are rounded	

Proposed Tariff Changes

62. EPDCL proposed certain changes in categorization of consumers without any change in charges. However EPDCL did not quantify the revenue impact of the proposed changes in the filings. These proposals are;
- to delete HT Cat-IV (B):Agriculture to keep uniform tariff for all HT lift irrigation schemes,
 - to include Rythu Bazaars run by Government of Andhra Pradesh in LT Category VII: General, and
 - to include rural horticulture nurseries in LT Category V(A):Agriculture on advice of the Government of Andhra Pradesh.
 - to include salt manufacturing units in LT Category V(A) on par with corporate farmers & IT assesses.
 - to incorporate certain modifications in case of a)duration for availing temporary supply and b)definition for LT Domestic and LT II: Non-Domestic categories.

RETAIL SUPPLY TARIFF FILINGS: NORTHERN POWER DISTRIBUTION COMPANY LTD(NPDCL)

Sales and Power Procurement

63. NPDCL estimated the sale of electricity to different consumer categories at 9797 MU for FY2009-10. The power procurement requirement to meet the estimated sales is estimated at 12026 MU for FY2009-10. The estimated power procurement is inclusive of transmission and distribution losses for FY2009-10 as per filings made by APTRANSCO and NPDCL respectively. The total power purchase

cost from various sources to meet the power procurement requirement is estimated at Rs.2709.73 Cr. for FY2009-10.

Aggregate Revenue Requirement

64. NPDCL filed the gross ARR for retail supply business for FY2009-10. While making the filings;
- a) adopted the SLDC cost and Transmission cost for FY2009-10 as per the filings made by APTRANSCO with the Commission for determination charges and fee for SLDC and transmission tariff,
 - b) adopted the estimated distribution cost for FY2009-10 as per filings made by it with the Commission for determination of wheeling tariff for FY2009-10 to 2013-14,
 - c) estimated sales to different consumer categories, the power procurement cost and power evacuation cost from Central Generating Stations (through PGCIL and ULDC cost), and
 - d) included the annual interest cost on consumer security deposits held by it as expense item in the ARR filings made by it as per the Regulation 4 of 2005.
65. Adding all the individual costs permitted to be recovered as per the Regulation 4 of 2005, NPDCL estimated the gross ARR for FY2009-10 at Rs.3622.83 Cr. The details of gross ARR estimated for FY2009-10 are given in Table 27.

Table 27: NPDCL Filings: Gross ARR for Retail Supply Business, 2009-10

ARR Item	Amount
SLDC Expenses	6.23
Transmission Cost	161.30
Distribution Cost	681.74
Power Purchase	2709.73
PGCIL Expenses	44.53
ULDC Expenses	4.16
Interest on Consumer Deposits	15.14
Supply Margin	0.00
Gross ARR	3622.83
Figures are rounded	

Revenue from Sale and Other Sources

66. NPDCL estimated the revenue from sale of 9797 MU of electricity at proposed tariff and revenue from sources other than tariff (non tariff income) at Rs.1697.10 Cr. for FY2009-10. Adding the estimated net revenue from electricity trading at Rs.123.85 Crs, the total revenue from retail supply business for FY 2009-10 is placed at Rs.1820.95 Cr. The revenue estimated for each category of consumers consists of;
- a) energy charges
 - b) fixed charges

- c) customer charges
- d) revenue from other charges, if any
- e) non-tariff income, directly attributable to consumer class
- f) non-tariff income, apportioned to consumer class
- g) HT incentive amount as deductible item

Revenue Gap

67. With the estimated revenue requirement and revenue from all sources, NPDCL will have the revenue gap, the shortage of revenue to meet the cost, at **Rs.1801.88 Cr.** for FY2009-10. NPDCL did not provide any information on how it will deal with the revenue gap for FY2009-10. The details of ARR, Revenue and Revenue gap for FY2009-10 are given in Table 26.

Table 28: NPDCL Filings: Revenue Gap for FY2009-10

Item	Amount
1.Revenue Requirement	3622.83
2.Revenue	1820.95
Revenue from Sale	1697.10
Revenue from Trading,	123.85
Revenue Gap (1-2)	1801.88
Figures are rounded	

RETAIL SUPPLY TARIFF FILINGS: SOUTHERN POWER DISTRIBUTION COMPANY LTD. (SPDCL)

Sales and Power Procurement

68. SPDCL estimated the sale of electricity to different consumer categories at 13107 MU for FY2009-10. The power procurement requirement to meet the estimated sales is estimated at 15934 MU for FY2009-10. The estimated power procurement is inclusive of transmission and distribution losses for FY2009-10 as per filings made by APTRANSCO and SPDCL respectively. The total power purchase cost from various sources to meet the power procurement requirement is estimated at Rs.3780.40 Cr. for FY2009-10.

Aggregate Revenue Requirement

69. SPDCL filed the gross ARR for retail supply business for FY2009-10. While making the filings;
- a) adopted the SLDC cost and Transmission cost for FY2009-10 as per the filings made by APTRANSCO with the Commission for determination charges and fee for SLDC and transmission tariff,

- b) adopted the estimated distribution cost for FY2009-10 as per filings made by it with the Commission for determination of wheeling tariff for FY2009-10 to 2013-14,
- c) estimated sales to different consumer categories, the power procurement cost and power evacuation cost from Central Generating Stations (through PGCIL and ULDC cost), and
- d) included the annual interest cost on consumer security deposits held by it as expense item in the ARR filings made by it as per the Regulation 4 of 2005.

70. Adding all the individual costs permitted to be recovered as per the Regulation 4 of 2005, SPDCL estimated the gross ARR for FY2009-10 at Rs.5156.60s Cr. The details of gross ARR estimated for FY2009-10 are given in Table 29.

Table 29: SPDCL Filings: Gross ARR for Retail Supply Business, 2009-10

ARR Item	Amount
SLDC Expenses	8.71
Transmission Cost	225.78
Distribution Cost	1038.31
Power Purchase	3780.40
PGCIL Expenses	62.48
ULDC Expenses	5.84
Interest on Consumer Deposits	35.06
Supply Margin	0.00
Gross ARR	5156.60
Figures are rounded	

Revenue from Sale and Other Sources

71. SPDCL estimated the revenue from sale of 13107 MU of electricity at proposed tariff and revenue from sources other than tariff (non tariff income) at Rs.3606.34 Cr. for FY2009-10. Adding the estimated net revenue from electricity trading at **Rs.331.01 Cr**, the total revenue from retail supply business for FY 2009-10 is placed at **Rs.3937.35 Cr**. The revenue estimated for each category of consumers consists of;

- a) energy charges
- b) fixed charges
- c) customer charges
- d) revenue from other charges, if any
- e) non tariff income, directly attributable to consumer class
- f) non tariff income, apportioned to consumer class
- g) HT incentive amount as deductible item

Revenue Gap

72. With the estimated revenue requirement and revenue from all sources, SPDCL will have the revenue gap, i.e. the shortage of revenue to meet the cost, at Rs.1219.25

Cr. for FY2009-10. SPDCL did not provide any information on how it will deal with the revenue gap for FY2009-10. The details of ARR, Revenue and Revenue gap filed for FY2009-10 are given in Table 30.

Table 30: SPDCL Filings: Revenue Gap for FY2009-10

<i>(Rs Cr)</i>	
Item	Amount
1.Revenue Requirement	5156.60
2.Revenue	3937.35
Revenue from Sale	3606.34
Revenue from Trading,	331.01
Revenue Gap (1-2)	1219.25
Figures are rounded	

Conclusion on Retail Supply Tariff Filings

73. The filings made by the four distribution Licensees are broadly in conformity with the Regulation 4 of 2005 issued by the Commission for the purpose of determining the retail supply tariff under section 62 of the Act. The Commission has taken the filing on record and examined it in detail with appropriate consideration of objectors' views for the purpose of determination of retail supply tariff for FY2009-10.

CHAPTER-III ISSUES RAISED/SUGGESTIONS RECEIVED AND DISCOM RESPONSES

PART-A: ISSUES RELATED TO ALL DISCOMS

Issues Related to APGENCO

74. APGENCO should be encouraged in a competitive environment in the power sector with level playing field. Recently, the lands belonging to APGENCO at Krishnapatnam were given away to Reliance Energy Limited.

DISCOMs: No discrimination is shown against APGENCO

75. DISCOMs should finalize PPAs with APGENCO for old and new projects. Because of these discriminatory practices, APGENCO lost nearly Rs 1800 Cr. till now. The payments to APGENCO are not even being arranged promptly. If the issue is not addressed expeditiously, the receivables of APGENCO would increase further

DISCOMs: Finalization of long term PPA is under process as the Licensee has to enter into a PPA with APGENCO for new projects with prior approval of APERC (NPDCL); First meeting on the PPAs was conducted on 24-01-2009 and some of the issues have been discussed before finalization of PPAs (CPDCL, EPDCL and SPDCL)

BPL Power Project and other IPPs

76. (i) The moves at the governmental level for the revival of BPL Power Project does not auger well for the autonomous functioning of the APERC (ii) Consumers are being burdened because of the lopsided PPAs with IPPs. The basis for the estimation of power purchases from the gas-based power plants is also not explained,

DISCOMs: M/s BPL has approached GOI for revival of the project. As per the advice of GOI, GoAP constituted a high level committee for revival. Based on the recommendations of the Committee, the GoAP directed DISCOMs for revival of the project. As per the directions of GoAP, the DISCOMs are finalizing the amendments to the PPA. After finalizing the amendments, the DISCOMs would file revalidated PPA before APERC for approval.

Power Purchase at Higher Costs

77. For the next financial year, the DISCOMs have projected a total requirement of 75145 MU and a shortage of 378 MU. Presuming availability of gas from the wells of

Reliance Industries Ltd., in KG basin from this month onwards and expected addition of installed capacity by about 1220 MW from VTPS-IV, Bhoopalpally and RTPP-III, and steep increase in demand on account of HT lift irrigation schemes, the DISCOMs have made the above estimates. They have explained that the expected improvement in availability of power may not result in significant relief on the cost front, because the new generation sources are carrying a high cost of power on account of fixed and variable costs. This again underlines the imperative need for regulating fixed and variable costs in a rational way

DISCOMs: Under purview of APERC (SPDCL); some projections of energy availability have been made for 2009-10 from APGENCO's stations which are under implementation. Initially, the interest shall be paid on full loan amount. The fixed and variable costs from these stations do not differ much from the old stations and thus the overall cost of APGENCO stations is less than Rs. 2.25 per unit. If these projects are able to generate power in 2009-10, load shedding would not arise (CPDCL); Due to non-availability of sufficient power, the Licensees are compelled to purchase power at higher costs from power traders and through UI mechanism, in order to maintain minimum 7 hour power supply to agricultural consumers. The supply of gas to the IPPs is expected this year. Hence, the proposed average power purchase cost per unit during 2009-10 is expected to be Rs.2.15 against Rs.2.37 for FY 2008-09 (NPDCL); The fixed costs are two part tariff components as per the section 45 of Electricity Act 2003. The high fixed costs is to meet the cost of capital invested. Based on the market trend, the power is purchased on need basis from available sources to meet the gap (EPDCL)

Methods of Power Procurement

78. From ARRs, it is not clear with regard to action taken by DISCOMs to modify existing methods of purchase of power i.e., measures taken to purchase power on hourly basis so that least cost stations need not be backed down which effectively leads to purchase of correct quantity of power (i.e., equal to peak demand shortage only). Consumers should not be penalized for inefficient operations by DISCOMs. Hon'ble Commission is requested to disallow power purchase at higher cost while calculating "Power purchase cost".

DISCOMs: DISCOMs have projected month wise energy requirement and availability (arrived based on sales projections during that month grossed up with projected losses). Finally, energy shortage during that month has been projected and therefore the deficit power of DISCOMs has to be procured from external sources. However, in reality, the energy deficit for each 30 min/ 15 min block would be different and

there is a possibility of energy deficit in certain time blocks and surplus in certain time blocks and no deficit/ surplus in the entire month. Therefore, DISCOMs are putting their full effort in optimizing the power purchase and sale based on day-to-day projections and scheduling the power from different sources

Sales Forecast

79. The current global recession needs to be factored into while arriving at the total energy consumption during the second control period 2009-14

DISCOMs: The energy consumption taken is for one year for retail supply business as per the orders of Hon'ble APERC. For the balance control period, the energy consumption forecast for retail supply business will be submitted based on the orders of Hon'ble Commission at that time (CPDCL); the sales forecast has been developed in the month of October 08 duly considering all the relevant factors at that time. The effects of global recession have not percolated to the end user-level till then. However, the suggestion of the petitioner will be looked into (EPDCL); the sales forecast of NPDCL has been prepared based on historical and end use method only (NPDCL); The Licensee believes that only reasonable growth is considered and would hold well for the second control period 2009-14 (SPDCL)

Agricultural Consumption Estimates

80. (i) Only SPDCL presented the procedure followed in estimating the agricultural consumption. Other DISCOMs did not present the method followed in arriving at the figures. (ii) Under the present agricultural consumption estimate, readings of meters installed on LV side of sample DTRs are very crucial. But, as mentioned in the Tariff Order 2008-09, on an average only 19% of the readings are reliable or correctly/regularly recorded. The reasons for abysmal performance in recording readings of about 30,000 meters installed at sample DTRs are not explained.

DISCOMs: The methodology on arriving agricultural consumption by taking sample DTR meter readings feeding agricultural services, as communicated by APERC, is being followed now (EPDCL); Agricultural consumption depends on various factors other than number of hours of supply such as ground water availability, type of crop, number of crops per year. Prior to 2004, the rain fall was scanty and ground water was less and for the last three years, there has been abundant rain fall and good ground water, leading the farmers to opt for paddy instead of irrigated dry crop. In some areas, the farmers have gone for third crop also. During 2007-08, the agricultural consumption of CPDCL decreased by about 1000 MU (CPDCL); The valid DTRs are 49.1% in case of NPDCL, much higher than the average of 19% mentioned

by the petitioner (NPDCL); The Licensee has 67.66% of valid metered DTRs for its agricultural consumption estimate in the current ARR filings (SPDCL).

Sales Projections for Railways

81. DISCOMs have projected energy sales in MU to railways for the second control period 2009-10 to 2013-14 without taking into account electrification of new sections in south central railway.

DISCOMs: Based on the DISCOM's requirement and availability, power purchase cost has been projected and filed for the FY 2009-10. The additional energy requirement projected by railways can be met by the DISCOMs for the FY 2009-10

Tariff for Lift Irrigation Schemes run by Societies

82. The DISCOMs proposed to delete HT-IV(B): Agriculture category with nil energy tariff in their filings. Has the GoAP changed its policy and directed the DISCOMs to charge tariff of Rs.2.36 per unit to the consumers covered under HT Cat-IV (B) so far? Or, have the DISCOMs proposed this change on their own, contrary to the policy of the GoAP? CPDCL has shown increase in revenue by Rs.8.83 Cr. for 2009-10 due to this change. What are the expected increases in revenues of NPDCL, EPDCL and SPDCL due to this change in the next financial year?

DISCOMs: SPDCL has not proposed any such change in its ARR filings this year (SPDCL); the same quantity of units (kWh) of agricultural consumption is accepted by Commission every year for providing subsidy by GoAP. Any increase in the consumption of agricultural sector (under free quota) will affect the revenue of DISCOM. As furnished in the ARR, many of the HT lift irrigation schemes maintained by GoAP are being transferred to the private societies. Hence, as the consumption of free quota increases, the revenues also get affected (CPDCL and NPDCL); if the tariff is applied to HT cat IV (B), EPDCL will get revenue of Rs.59 lakh due to change in the next financial year. The DISCOM may provide free supply in co-ordination with GoAP (EPDCL).

Tariff for Railways

83. There is an imperative need to levy electric traction tariff at a reasonable rate so that nation's dependence on imported oil can be reduced, more areas in AP can be electrified and the impact on railway tariff for goods/passengers can be minimized

DISCOMs: Under the purview of the Hon'ble Commission

Cost of Service and Tariff for Railways

84. As per ARR of DISCOMs, the average rate of power purchase cost is estimated at Rs.2.16 per kWh for the year 2009-10. The cost of service (CoS) in respect of railways, is higher by 46% compared to power purchase cost. Reduced CoS and likely increase in consumption of energy in 2009-10 due to electrification of additional TKM of 190 would have to reflect in reduction of tariff, below Rs.4.00

DISCOMs: 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 for any consumer category is not limited to cost of power purchase only and it also includes cost of transmission, cost of distribution and other metering/ billing costs. Hence a percent difference between CoS and power purchase cost cannot be an appropriate indicator. Increase in transmission and distribution cost may be attributed to the higher level of investments done by the DISCOMs and increased financing costs incurred. The CoS calculation is being worked out on year-on-year basis. The projected additional units by railways for the year 2009-10 may not create a significant impact on the CoS calculation. With regard to tariff fixation, the subject falls under the purview of Hon'ble Commission.

Tariff for Railways like Ferro Alloy Units

85. Andhra Pradesh Ferro Alloys were being given power supply at 132 kV @Rs.2.45 per unit during 2008-09 and the DISCOMs proposed the same tariff for year 2009-10. Railway traction is also a power intensive unit similar to ferro alloys, apart from being a public service organization and providing employment to a large number of people

DISCOMs: Comparison cannot be drawn between ferro alloys and railways because - load factor of ferro alloys is much higher at 85 percent (which indicates optimum use of network and generation capacity). In addition, ferro alloys take supply at only one point while railways take supply at many points and yet demand charges are not levied, and finally for ferro alloys, the cost of power is a significant portion of cost of production. Hence, similarity cannot be drawn between the two categories.

Higher Tariff for Malls and Hoardings

86. Tariffs applicable to these consumers should reflect the cost of marginal power purchases by the utilities, particularly during peak hours, including system losses and other network expenditure. In the Tariff Order 2008-09, the Commission directed the DISCOMs (Para 239) to come up with proposals on this issue for the second control period. But none of them made any satisfactory reference to it

DISCOMs: APERC to examine the issue (EPDCL); As per fresh directive No.9 of Hon'ble Commission vide TO 2008-09, the Licensee has to submit a proposal for revised tariff for hoardings and shopping malls. Presently, these services are being billed under higher tariff i.e., LT-Category-II. However, a study is being conducted to create separate category or differentiating tariff under existing LT-Category-II (NPDCL); Suggestion is not agreeable (CPDCL);

Collection of Disconnection Charges

87. At Para 202 of Page-77 of Tariff Order dated 20-03-08, APERC directed that no Licensee shall levy and collect any disconnection charges (i.e., Rs.50 as per Para 201). There is no mention in the Tariff Order page 207 - part-C item-II Reconnection charges. No disconnection charges have been fixed by the APERC though required to be fixed, levied and collected as per section-56 of 2003 Act. Further, it is not clear as to what is the basis for 24% of interest p.a with a minimum of Rs.75/-

DISCOMs: The Licensee is not collecting any disconnection charges. Only reconnection charges of Rs.50 are being collected after physical disconnection and payment of dues (SPDCL and NPDCL); Reconnection charges are collected wherever actual disconnection has taken place (CPDCL); The DISCOM, as a Licensee, has to obey the orders of Hon'ble APERC and the DISCOM has no comments (EPDCL);

HT Incentive Scheme for Railways

88. Discontinue incentive scheme to HT-I industries or else extend similar scheme to HT-V Railway traction

DISCOMs: The present incentive scheme for HT-I consumers is based on load factor and hence extending the same to HT-V railways may not be appropriate.

Incentive for higher Power Factor (PF):

89. Give incentive for higher power factor, of above 0.95, to encourage energy conservation measures undertaken by railways.

DISCOMs: Maintaining PF of 0.9 is considered to be basic minimum criteria and incentives need not be extended for maintaining PF at a level higher than 0.9. However, if the Hon'ble Commission decides to raise the required minimum level of PF from 0.9 to 0.95 or above, it may consider giving suitable incentives

Tariff for Ferro Alloy Units, in the Context of Electricity Act 2003

90. Reduce the tariff to pre 2005-06 level, i.e. Rs.2.12 per kWh as the cost of service for 132 kV consumers has been around Rs.1.85 per kWh or a reasonable tariff close

to Rs.2.12 per kWh as deemed fit by the Hon'ble APERC, in line with the provisions of the Electricity Act, 2003

DISCOMs: the tariff from the year 2005-06 on wards is reduced from Rs.2.87 to Rs.2.45 even though power purchase cost and other costs increased (CPDCL); Cost of supply depends on the sales estimates and expenditure on all categories of services. The tariff fixations are under the purview of Hon'ble Commission. However, reasonable tariff is proposed for ferro alloys units (EPDCL)

Tariff for Ferro Alloy Units-Cross Subsidy Component

91. The ferro alloy units may be permitted to pay only the cross subsidy component of the tariff when the units fail to consume energy equivalent to 85% load factor, to avoid anomaly of collecting huge amounts by DISCOMs

DISCOMs: Disagreed for change of 85 percent annual load factor (CPDCL); under the purview of Hon'ble Commission to examine the of Load factor 85 percent. However Ferro alloy units are highly power intensive (nature) industries. Hence, maintaining of 85 percent annual load factor is not a burden to Ferro alloy units (EPDCL)

Reduction in Minimum Charges

92. Considering the irregularities in the enumeration of connected load figures, the Commission is requested to revise the minimum charges for the consumers, consuming less than 50 units per month, at Rs.25/- per month, irrespective of connected load.

DISCOMs: The connected load is not fixed by DISCOM. This is furnished by the applicant in the application form. We disagree to reduce the minimum charges of Rs.25/- per month (CPDCL); Connected Load is taken into account while the consumer applies for connection or additional load. While giving new connection or additional load, the connected load in the consumer premises will be examined and registered accordingly (EPDCL); the contention of the objector is not true as the Licensee has not collected any revenue against the Tariff Order as the monthly minimum charges are being collected as per the connected load of the consumer only (NPDCL); Average revenue per unit is inclusive of current consumption charges, monthly minimum charges and customer charges, whereas tariff is purely consumption charges. Consumers are being classified based on the actual connected load only (SPDCL).

Group Wells

93. Implementation of APERC's suggestion on group wells by DISCOMs in Tariff Order 2008-09.

DISCOMs: Group wells under a society will be given agricultural service connection under LT-V category as per the rules. There is no scheme for regularizing unauthorized services without charging any fee. The Licensee is regularizing unauthorized agricultural services by collecting the necessary development charges and without levying any penalties (SPDCL); the Licensee has earlier released agricultural services to consumers under SC Jeevana Dhara wells which are being utilized from a common well. The regularization of unauthorized agricultural connections is being done regularly. In the fiscal years 2004-05, 2005-06, 2006-07 and 2007-08, 11449, 35818, 26521 and 21025 of unauthorized agricultural services respectively were regularized. In FY2008-09, 36855 unauthorized services are regularized. The suggestion is noted (NPDCL); as replied earlier, the DISCOM has not enough resources to motivate the consumers to go for group wells. An integrated approach is very much necessary and as such non-government organizations may come forward to encourage and enlighten the farmers on group wells and energy-water management techniques. NGOs and Government may come forward to take up the job of group wells. CPDCL will cooperate in this regard (CPDCL); The DISCOM has not enough resources to motivate the consumers for group wells. An integrated approach is very much necessary and as such NGOs may come forward to encourage and enlighten the farmers on group wells and energy-water management techniques. NGOs and Government may come forward to take up the job of group wells. EPDCL will cooperate in this regard (EPDCL)

Incentive for early payment

94. Hon'ble MERC is allowing 1% incentive for early payment i.e., within 7 days and Hon'ble OERC is allowing a rebate of 10 paise/unit for payment within 7 days. The Hon'ble Commission is requested to consider the railways plea to implement the above incentives for the year 2009-10

DISCOMs: In the purview of APERC

Agricultural Connections

95. The exact number of agricultural connections should be ascertained by adopting flawless methods as there is propensity among the distribution companies to inflate

the figure of agricultural connections to show reduced T and D losses and this practice is highly depreciable and needs to be suppressed.

DISCOMs: As per the guidelines of the Hon'ble APERC, the agricultural consumption estimate is prepared considering number of authorized and unauthorized services existing as per Census 2001. This figure cannot be altered without the permission of APERC (CPDCL, NPDCL and EPDCL); Census of agricultural services is done in 2002 (SPDCL).

Future Agricultural Connections

96. About 40 Lakhs acres are expected to get the surface irrigation facility in next five years. The DISCOMs may interact with the irrigation department from time to time to phase out the agricultural pumpsets. HVDS in the newly irrigated areas may not be necessary. The DISCOMs may provide the projections in this regard.

DISCOMs:The electricity connection can be dismantled on consumer's request only. The suggestion regarding HVDS is very pertinent and it will be considered while planning HVDS projects (CPDCL); In ARR, the projections were made based on the report from irrigation department (NPDCL); the phasing out of the AGL pump sets consequent to surface irrigation is not under the purview of the DISCOM. It is opined that the matter may be looked into duly interacting with irrigation authorities for convincing the farmers to surrender their connections subsequent to surface irrigation (EPDCL); The DISCOM is in touch with the irrigation department. The irrigation department is paying for several lift irrigation schemes (SPDCL)

Entry into Other Businesses

97. APTRANSCO and DISCOMs have vast network of lines and substations, lands etc., which can be effectively utilized for taking up many other business like cable operations, telecom etc., in line with section-41 and 51 of the Electricity Act-2003 and regulations issued by APERC to make themselves self sustaining and also reduce the increasing revenue gap.

DISCOMs: The Licensee is investing about Rs.200 Cr. in 1600 MW Krishnapatnam thermal power plant so as to avail the generated power at cheaper cost. Commercial viability along with the resources available needs to be studied before entering other business (SPDCL); suggestion will be examined (EPDCL);

Interest on Security Deposits

98. As per Sec-47(4) of 2003 Act, the distribution Licensee shall pay interest equivalent to the bank rate or more on security deposit referred to sub-section 1(a) and (b). It is not clear whether APERC has specified interest rate in respect of deposits where any electric line or electrical plant or electric meter are to be provided by the Licensee.

DISCOMs: The Licensee is paying an interest of 6% p.a. on the security deposits (SPDCL and CPDCL); under purview of APERC (NPDCL); APERC has issued Regulation no.6 of 2004 in this regard (EPDCL)

True up of Expenses

99. The DISCOMs have not made any proposals as to how they would bridge the revenue gap. They have requested the Hon'ble Commission to true up the amount of Rs.1853.62 Cr. for the period of four years from 2005-06 to 2008-09, claiming it as the additional revenue gap exceeding the limits prescribed by it due to uncontrollable factors. As per the long term tariff principles, the Hon'ble Commission has to permit the true up claims, if the additional revenue gap is caused by uncontrollable factors. In this connection, it is to be noted that APGENCO has claimed an additional sum of Rs.2819.15 Cr. from the DISCOMs for the period of four years towards sale of its power to them. On APGENCO's petitions pertaining to these claims, the Hon'ble Commission has held public hearing on 21-01-09. To the extent the Hon'ble Commission permits additional amount to APGENCO, the same will add to the revenue gap of the DISCOMs and this also has to be allowed by Commission as pass through. Following its long term tariff principles, if the Hon'ble Commission allows true up or special appropriation of the additional claims of the DISCOMs for the next control period of five years, at the end of the period, the accumulated amount for such additional claims may be much more, going by the experience in the three year first control period.

DISCOMs: Under the purview of the Commission (SPDCL); **(i)** the gap is shown without hiking the retail supply tariffs, expecting the support from GoAP for both present and past years true ups **(ii)** The Licensee is submitting records required by the Hon'ble Commission on expenditure incurred, revenue received and deficit/surplus if any through balance sheet and audited annual accounts every year and also the Licensee is submitting the true-ups along with the ARR filings every year. The Licensee will abide by the orders of the Hon'ble Commission

(CPDCL); (i) the gap is shown without hiking the retail supply tariffs expecting the support from GoAP for both present and true ups of previous years (ii) While agreeing with the contention of the petitioner, the Licensee has been submitting true-up at the end of each year along with the ARR. However, the matter is under the purview of the Hon'ble Commission (NPDCL and EPDCL)

Capital expenditure and reduction of distribution losses

100. The DISCOMs exceeded the capital expenditure limits prescribed by the Commission but could not achieve the targets of reduction of distribution losses as decided by for the first control period. The DISCOMs have proposed a very huge capital expenditure for the second control period

DISCOMs: SPDCL has achieved the loss reduction targets fixed by the Hon'ble Commission in the first control period. The ATC losses are less than 15 percent as the Licensee is able to collect 100 percent revenue every month (SPDCL); In CPDCL energy audit of town/MHQ is started in the month June 2007 to bring down the losses to benchmark levels (CPDCL); It is a fact that the reduction in losses is dependent to a great extent on the investments made in the structural improvement made in the sector. The Licensee would like to bring to the notice of the petitioner that majority of the investments during the previous control period were towards expansion and strengthening of the network (NPDCL); The distribution losses are being reduced through proper meter readings, billing, controlling of theft, adding of DTRs, optimizing the ratio of HT/LT, installing capacitors, wide installation of HVDS for agricultural services in the system and optimizing the loading of equipment, installation of high accuracy meters in place of mechanical meters and up gradation of system network with need based, load based establishments (EPDCL)

Return on capital employed

101. Despite the explanation given by the Hon'ble Commission in its tariff order for the year 2008-09, in support of introduction of the methodology of return on capital employed (RoCE), in place of return on equity, it seems to be in the direction of frontloading the tariff. Despite that, the DISCOMs are requesting the Hon'ble Commission to permit a rate of 16%, instead of the existing rate of 14%, as return on equity, on the ground that distribution business has higher risks compared to generation or transmission

DISCOMs: The DISCOM has projected its cost of capital taking only 14 percent as return on equity for the debt equity proportion of 75:25 (SPDCL); Return on Capital

Employed (RoCE) is required to enable the Company to meet its cost of capital, viz., debts and equity. Return on Equity (RoE) gives leeway for some scope for cash flow as there is no other cushion. Capital investments in distribution business are being catered mainly by funding agencies as the profit of the Company is very meager. For the new projects, the financial institutions, viz., PFC, REC, etc. will sanction 75 - 80 percent of the proposed investment cost. Therefore, RoE will be used for financing the promoters' contribution of 20-25 percent in ensuing projects as there is no fresh infusion of equity in the DISCOMs. Also, it may be noted that Central Electricity Regulatory Commission guidelines have provided for RoCE (CPDCL and NPDCL); The DISCOMs are proposing RoE rate of 14 percent and are coming forward to forego the retail supply margin in the interest of consumers. In obedience to the Hon'ble APERC, the DISCOM is investing in APGENCO Krishnapatnam power plant not in an ultra power project (EPDCL)

Energy Conservation Measures Incentives for Railways

102. S.C. Railway(SCR) is awarded 2nd prize in energy conservation by BEE for the year 2008 for the energy conservation measures adopted by SCR. Any energy conservation measures need to be encouraged by way of reduced tariff
- DISCOMs:** Till norms for electricity consumption, monitoring and verification protocols are well established, it might be difficult in quantifying the energy conserved due to implementation of energy conservation measures

Fuel Surcharge Adjustment (FSA)

103. The DISCOMs have not shown any claims for fuel surcharge adjustment for the year 2008-09 separately in their filings. Have they included the FSA amounts also in their projected revenue gap? If so what are the amounts of FSA of each DISCOM and the reasons for the same?
- DISCOMs:** The Licensee has not included the FSA amounts in the current ARR filings. The Licensee has been submitting the data for FSA calculations every quarter to the Hon'ble Commission promptly. The matter is pending with the Hon'ble Commission (SPDCL); after approval by APERC on FSA, the same will be adjusted in CC bills. FSA amount is not shown in the revenue gap in ARR filing (CPDCL); after approval by APERC on FSA, the same will be adjusted in CC bills (NPDCL); Government is reimbursing the high cost of power through special subsidy and so FSA is not projected separately. On receipt of Hon'ble Commission's orders, necessary fuel surcharge adjustments will be done in consumer bills (EPDCL)

24 hrs. Power Supply to Villages

104. What is the status of the Report, as per the directive of APERC, as per Para-260 of the Tariff Order, 2008-09, on 24-Hr Power Supply to rural households? If it has been submitted to the Hon'ble Commission, a copy may be made available, duly posting it on the website of the DISCOM

DISCOMs: CPDCL's intention is also to provide 24 hrs. power supply to rural areas on par with urban areas (CPDCL); With regard to reduction of minimum charges for consumers in the rural areas, the DISCOM is making all efforts to supply 24 hrs. power to rural consumers, except for agricultural services. Once the new generating capacities based on gas become operative, the supply situation gets improved (EPDCL); this issue is being studied by the Licensee (NPDCL); The overall power demand is more than the availability in the country which is necessitating loads shedding in most parts of the country. Efforts are on to increase the generation, reduce losses and also to conserve energy. Rural India is not as developed as urban India in all walks of life. Power sector is laying lines to the interior tribal hamlets also as part of social responsibility and does not think in terms of commercial gains. Efforts are in place to arrange 24 hrs. power supply to the rural areas also. Hopefully power sufficiency can be achieved in the near future with the addition of several new public and private generating stations (SPDCL)

Compliance with Standards of Performance (SoP)

105. Regulatory body and distribution companies should take proactive role by consciously generating awareness about the SoP with consumer friendly approach. The SoP framed by the Commission should be printed in the vernacular language on the reverse side of the bill. The regulatory body should organize workshops in alliance with NGOs to increase awareness of SoP among the consumers.

DISCOMs: The suggestion is noted (CPDCL, EPDCL and NPDCL); As per APERC's Regulation No. 5 of 2004, information is being included on the body of the bill. It is difficult to incorporate SoP on the reverse side of the bill as it requires more space. SoP are prominently displayed at all the sub-division level customer service centers, integrated customer service centers, section offices and EROs (SPDCL)

Energy Conservation

106. To achieve the objective of energy conservation, government agencies and distribution companies should act as role models. There should be social audit of power consumed by public offices in order to curb the indiscriminate use of power.

The usage of solar lamps and CFL bulbs should be encouraged. Farmers should also be encouraged to install capacitors on pump sets.

DISCOMs: All possible steps are being taken for conservation of energy (CPDCL and NPDCL); Agricultural consumers are being persuaded to adopt DSM measures. The Licensee has launched distribution of CFL Lamps to 6.5 lakh of domestic consumers, on pilot basis, in Visakhapatnam circle. Capacitors have been installed on LV side of DTRs in town and mandal head quarters(EPDCL).

107. The DISCOMS, in the first phase to reduce the peak demand and avoid power purchase at higher prices, may distribute CFLs to 75 lakh households which consume 0 to 50 units per month under the Prime Minister's Bachat Lamp Yojana (BLY) scheme.

DISCOMs: The Licensee has entered into agreement with M/s Banyan Environmental Innovations Pvt. Ltd. for supply of CFL bulbs for Rs.10, Rs.11 and Rs.12 based on the wattage of the bulbs (SPDCL); An MOU has been entered with M/s OSRAM for distribution of 6.5 lakhs CFLs to domestic consumers. Till now 3 lakh CFLs are distributed and energy conservation benefits are achieved by reduction of peak load demand by 30MW in EPDCL (EPDCL); the negotiations are under process with the private parties in collaboration with NEDCAP to implement the BLY under CDM of UNFCCC (NPDCL); the suggestion is acknowledged. CPDCL entered into a formal agreement with M/s. International Resources Group Limited and M/s. Bureau of Energy Efficiency for implementing CFL project under BLY in Ranga Reddy north circle as a pilot project. The base line study for implementation of the project is being carried out and the pilot project is expected to be completed by June 2009. In this project, each consumer will be provided with a maximum of 4 CFLs in exchange for 4 incandescent bulbs and also payment of Rs.15/- for each CFL. After implementation of the pilot project in Ranga Reddy North Circle, CPDCL will consider implementing the CFL project in other circles (CPDCL).

108. Conservation of energy should take the form of a mass movement involving all domestic users and farmers. APERC, APTRANSCO and other connected bodies. There shall be involvement of people oriented organizations, like Jana Vignana Vedika, to bridge the gap between the Licensees and consumers.

DISCOMs: The Licensee has entered into agreement with M/s Banyan Environmental Innovations Pvt. Ltd. for supply of CFL bulbs for Rs.10, Rs.11 and Rs.12 based on the wattage of the bulbs. The Licensee proposes to replace the existing incandescent

bulbs with these CFL bulbs as part of energy conservation program (SPDCL); the Licensee has been giving wide publicity on utilization of CFLs in place of incandescent lamps besides replacing the existing lamps with CFLs. Awareness programs also have been conducted by the Licensee for employees (NPDCL); Suggestion is appreciated. However action is already taken to that extent (CPDCL); In DISCOM, there is a separate energy conservation cell for implementation of energy conservation measures. It is under the control of Divisional Engineer/ energy conservation. Consumers are being motivated on energy conservation through wide publicity. On DSM measures, pamphlets are distributed in urban and rural areas detailing energy conservation tips. EPDCL has taken up distribution of CFLs supplied by M/s OSRAM in exchange of ordinary filament lamps in Vizag District targeting 6.5 Lakh of domestic consumers with anticipated reduction of peak load and 3.6 Million units of energy per month. MoU is entered with M/s VIZ Technologies Pvt. Ltd for fixing up of Capacitors on LV Side of agriculture DTRs to reduce losses due to reactive power (EPDCL)

Consumer Grievances Redressal Forums (CGRFs)

109. Consumer grievance redressal mechanism is not very effective. Acknowledgement for the receipt of a grievance is hardly issued. Proper and authentic records in the form of registers and redressal of grievances are not being kept and maintained. There should be a complaints audit mechanism on periodical basis with the active involvement of NGOs and public spirited individuals under the monitoring and supervision of the Commission. The findings of such audits should be mandated to be published in the tariff proposals of distribution companies.

DISCOMs: The consumer grievance redressal mechanism with effect from 26-02-2005 is functioning satisfactorily. Complaints filed by the complainants concerning deficiency in service or supply or any other grievance are being acknowledged promptly by the CGRF. The suggestion made for introduction of audit mechanism for the complaints handled by the CGRF is a good one for effective monitoring of grievance redressal mechanism. APERC may examine the suggestion and take appropriate decision in the matter (CPDCL and NPDCL); Chairman, Member (Revenue), Member (legal) and other staff are working on full time basis for redressing the grievances of consumers. The objector's contention of not acknowledging of grievances and not maintaining of registers is not true and is purely imaginary (SPDCL); The consumer grievance redressal mechanism (CGRF/EPDCL) with effect from 26-02-2005 is functioning satisfactorily. The complaints filed by the complainants concerning deficiency in service or supply or any other grievance are

being acknowledged promptly by the CGRF, in the format (Form II) prescribed by the APERC. The depositions made by the complainants before the forum at the time of hearings are recorded in the register and signatures of the complainants are also obtained in the register/book kept for the purpose. A consumer grievances register is maintained in the CGRF. A disposal register is also maintained for recording the decisions of the forum in the form prescribed by the APERC. Quarterly reports are being sent to APERC, indicating the complaints received and disposed within a fortnight after the closure of the quarter. Annual reports are also being furnished to APERC in the month of May of every year ending with March of the relevant financial year as prescribed by APERC in Regulation 1 of 2004 of APERC. The suggestion made for introduction of audit mechanism of the complaints handled by the CGRF is a good one for effective monitoring of grievances redressal mechanism and APERC may examine the suggestion and take appropriate decision in the matter (EPDCL).

Segregation of Agricultural Feeders:

110. What is the status of segregation of agriculture feeders and what will be the expenditure involved in the segregation of these feeders?

DISCOMs: All the agricultural feeders were bifurcated from main feeders (SPDCL); NPDCL has finished the segregation work of town and mandal head quarter feeders for extending 24 hours supply. The agricultural services existing on these feeders were separated and supply is being extended through rural feeders. Complete segregation of agricultural loads may not be an economical option. Therefore, in rural areas, instead of laying parallel feeders for agricultural loads and lighting loads, single phase DTRs are erected for extending the supply to lighting loads wherever necessary on the existing feeders (NPDCL); all agricultural services in towns and mandal headquarters were segregated from the domestic services through bifurcating the 11 kV feeders. The proposals for segregation of agricultural services in other rural areas are under consideration (CPDCL);

DSM Measures in Agriculture:

111. Installation of capacitors as part of DSM measures was made compulsory for accessing free power by agriculture consumers. The numbers and percentage of agricultural services that have installed capacitors and the amount spent on purchase and installation of capacitors by DISCOM are to be explained

DISCOMs: No amount is spent by DISCOM in installation of the capacitors to the pump sets (CPDCL); 98% of agl. connections are fixed with capacitors and consumers are being educated and motivated for fixing of capacitors on their own (EPDCL); 89.36% of existing pump sets as on date, have been provided with capacitors. The cost of capacitors was borne by the GoAP (SPDCL)

Implementation of HVDSs

112. No proper earthings are done in HVDS that results in electricity passed through the walls, wider power fluctuations, burning of electrical appliances and deaths.

DISCOMs: Earthings are being done as per the norms. The honorable Commission has also inspected the HVDS works in SPDCL area (SPDCL); an amount of Rs.90 Cr. has been approved by APERC towards expenditure on HVDS and an amount of Rs39.719 Cr. was spent up to December 2008 in FY 2008-09 in Karimnagar and Nizamabad districts. The particulars of projected expenditure towards HVDS for the ensuing control period 2009-14 are furnished in ARR filings. The implementation of HVDS schemes in NPDCL is as per norms only i.e., including providing of AB cable from DTR to agricultural service. During the ensuing year, the projected expenditure towards HVDS is Rs.140 Cr. only (NPDCL); the expenditure during 2008-09, up to 31-12-08, is Rs. 36.46 Cr. The total expenditure, to the end of March-2009, will be Rs 50 Cr, as allowed by APERC. For HVDS schemes 3x16+25 Sqmm AB cable is proposed in the schemes and the same is implemented in the field also as per norms (CPDCL); HVDS program is being implemented thorough follow-up and pursuance (EPDCL)

Power Supply Hours to Agricultural services

113. The 7 hours supply is being provided in two phases, in 3 and 4 hour blocks. Power cuts experienced during these blocks resulting in drying of crops. APERC has to order the DISCOMs to provide 9 hours supply to the farmers during day hours only, that too, in a single spell.

DISCOMs: It is the government policy to provide 7 hrs, 3-ph supply to agriculture sector in two spells i.e., 4 hours during day time and 3 hours during night time (CPDCL); Under the given circumstances DISCOM is putting efforts for 7 hour power supply (NPDCL, EPDCL and SPDCL).

Agriculture Allied Works

114. The conversion of sugarcane to jaggary crushing businesses may be treated as agriculture allied businesses and may be billed at agricultural rates instead of commercial rates

DISCOMs: Disagree to categorize sugar cane crushing units under agriculture category since it does not come under agriculture activity (CPDCL); in the purview of the Commission (NPDCL, EPDCL and SPDCL)

Un-Authorized Agricultural Services

115. About 4.5 lakh unauthorized agricultural connections are to be regularized by collecting nominal fees. APERC is requested to direct the DISCOMs accordingly

DISCOMs: At present, regularization is being done as per the direction of GoAP. The farmers are not coming forward to get the unauthorized agriculture connections regularized (CPDCL); Efforts are being put to regularize the unauthorized agricultural services (NPDCL)

Public Hearings

116. (a) There should be a common public hearing for all the distribution companies at a common place, besides special public hearing for each distribution company (b) If number of petitions requesting for personal hearings are 20 or above from a particular district, a separate public hearing need to be held in that district (c) At Para-169 of Tariff Order - 2008-09, the Commission clarified that the objectors can utilize the facility of furnishing the objections at the offices of the Licensees closer to their places of residence/business. But, this aspect seems to have been ignored by the Licensees

DISCOMs: (a) In the purview of APERC (b) In the purview of the APERC (c) in the purview of APERC (EPDCL); the objectors can send their objections by post to the addressee, mentioned in the public notice. However, it is difficult to monitor and coordinate at the lowest level within limited period (CPDCL); not in the purview of the DISCOM (NPDCL); It is not feasible to collect the petitions from all the section offices of the company and reply within the specified time schedule (SPDCL)

Debt Burden of Terminal Benefits of Employees

117. The entire debt burden of erstwhile APSEB towards terminal benefits was placed on APGENCO through arbitrary transfer schemes. The erstwhile APSEB violated the norms of allocating funds towards terminal benefits of employees. As per the earlier Acts, it is the duty of GoAP but GoAP did not ensure that APSEB earn a minimum of 3% every year on its total assets. The GoAP shall take over the debt

towards terminal benefits from APGENCO. The Commission shall accordingly give a policy advice to the state government.

DISCOMs: APGENCO alone is not bearing this burden (CPDCL); under the purview of the Commission and GoAP (SPDCL and EPDCL); as per the transfer scheme approved by GoAP, the debt burden of terminal payments was allocated to APGENCO based on its assets (NPDCL)

Rates for Theft of Energy

118. No special rates, chargeable for pilferage, have been indicated in the general terms and conditions of supply (GTCS). Similarly, in respect of theft of energy, special rates have not been indicated, except indicating “recovery of loss of revenue”

DISCOMs: Rates chargeable for unauthorized use and theft/pilferage of electricity are based on GTCS, Electricity Act 2003 and Electricity (Amendment) Act 2007 (SPDCL); not under the purview of the DISCOM (NPDCL and EPDCL); Revenue loss on account of theft of energy is mentioned at clause 10.4 of GTCS (CPDCL)

Payment of Electricity Duty(ED) by DISCOMs

119. Though it was brought to their notice of DISCOMs that ED is not payable as per Electricity Duty Act 1939 on electricity consumed in DISCOM operations, the DISCOMs are paying the ED at 6 paisa/kWh consumed in construction, operation and maintenance works’

DISCOMs: SPDCL is taking up some construction activities on its own. Most of the departmental construction activities are allocated to the contractors. The contractors are paying the electricity consumption charges including the ED. SPDCL is not paying any ED on its own electricity consumption (SPDCL); Instructions are issued to all the field units for not making payment of ED on the Offices of CPDCL (CPDCL); the tariffs stated in the tariff orders are exclusive of ED. Duty is levied as per Electricity Act 1939 and further instructions are awaited on this from GoAP (EPDCL).

Payment of Compensations by DISCOMs

120. Compensation shall be paid by distribution companies in the event of loss of property and electrical appliance owing to high and erratic fluctuations like in the case of accidental deaths of human beings and animals

DISCOMs: The consumers have to make their own safety measures regarding safety of their electrical appliances viz., proper earthing, proper starter, proper switch, etc., to isolate the equipment whenever high and erratic fluctuations in the power

supply occurs. DISCOMs does not owe for the damages to the electrical appliances occurred inside the premises of the consumers. However, DISCOMs shall provide quality of power supply without erratic/high voltage fluctuations (CPDCL and EPDCL); No such procedure exists to compensate for damaged electrical appliances and property due to fluctuations in power supply (SPDCL); the Licensee shall abide by the Hon'ble commission's order (NPDCL)

Supply to Rural Areas

121. Discrimination against rural consumers' vis-à-vis urban consumers should be stopped and there should be parity in the matter of standards of power supply service without any discrimination against the rural consumers

DISCOMs: As per the policy of the GOAP for rural feeders other than mandal head quarters and urban area feeders, seven hours three phase supply i.e. four hours day time and three hours night time and single phase supply for balance period in the night time is being given (CPDCL and EPDCL); There is no discrimination against rural consumer vis-à-vis urban consumer. For rural areas, various standards of performance have been adopted because of wide distribution area, scattered network, problems in transportation, organizational strength etc., (NPDCL); This is dependent on the overall power availability and demand in the country and hopefully can be achieved in the near future with the addition of several new public and private generating stations (SPDCL)

PART-B: ISSUES RELATED TO CPDCL

Pilferage of Energy

122. The energy balance table 3.2.1 may be modified to include the theft of electricity "Metered Sales + LT Agl. Sales + Losses due to theft of electricity + Distribution loss = DISCOM INPUT". The names of those electricity thieves may be displayed at central places in cities, towns, villages

CPDCL: CPDCL is preparing the 'system losses return' every month based on the input energy received, metered sales and assessed agricultural sales in the same month. When theft of energy is concerned, the actual units lost due to theft are to be detected and assessed by DPE and MRT wings. If the assessment is challenged by the consumer then the appellate authority will finalize the quantity of pilfered energy. If the consumer is not satisfied he may approach courts and CPDCL has to wait for the final judgment. All the above sequence cannot happen in a single month to include the theft units for calculating system losses. The detection of

theft will not give actual quantity of units lost and the month in which the units are lost. However, the total assessed units in a year can be taken for arriving distribution losses for energy accounting purpose. Regarding the aspect of displaying the names of the electricity thieves who are convicted by the court of law at a central place in cities, towns and villages, it will be examined in consultation with the Hon'ble APERC and Government.

Power Supply during Night Time

123. Providing of power supply to the farmers in the night hours in Medak, Rangareddy and Mahabubnagar districts led to the deaths of many farmers by electrocution. DISCOM should be made responsible and compensation is to be paid to the farmers
CPDCL: Due to limitations in power supply systems, providing agricultural supply in two spells i.e. during day time and night time is inevitable

Power Supply to Lift Irrigation Schemes

124. Lift irrigation schemes were shut down in many places due to reduction in power supply hours from 18 to 7. The DISCOMs are liable for such closures and have to pay compensations to the farmers. State wide survey on lift irrigation schemes shall be conducted and separate feeders may be laid down to provide 11 hr supply to these services
CPDCL: 7 hours 3 phase supply is extended where Lift Irrigation (LI) schemes are fed from common feeders and 16 hours supply is provided where LI schemes are fed from dedicated feeders. As such there is no reduction in hours of supply

Billing of Cottage Industries

125. The power loom, carpentry, tailoring and barber shop consumers are being billed in commercial category resulting in high electricity bills and closure of their businesses. APERC has to rescue these small business units by providing subsidy
CPDCL: Power loom and carpentry services below 5 HP load are categorized under LT cottage industries. However, tailoring and barber shop consumers are billed under non-domestic category as per APERC Tariff Order

Energy Conservation

126. (a) Licensee should bring awareness among the consumers by conducting energy conservation programs (b) fixing of capacitors to agricultural pump sets is not done completely.
CPDCL: (a) The consumer awareness programs are carried out during Rythu sadassus, Rythu chaitanya yatras and sub station committee meetings (b)

Consumers are insisted to provide capacitors and are motivated by explaining the purpose of their utility

Issues of GHIAL (GMR- Hyderabad International Airport)

127. (a) The entire GHIAL Airport, the facilities etc should be considered as a Green Field Project for the purpose of classification and determination of retail tariff to be charged by the distribution Licensee, in view of the significant nature of the difference between the electricity requirement of the pre-existing airport and the electricity requirement of the new airport that is brought into existence. As per the provisions of Section 61-g of the Electricity Act, 2003 the tariff shall progressively reflect the cost of supply and also a progressive reduction. Further, as per Section 3 of the National Electricity Policy , the level of cross subsidy should progressively reduce (b) about 85% of the consumption by GHIAL is for industrial purposes and not for commercial purposes and 15% only is used for commercial establishments. Hence, GHIAL should be categorized as HT Industry and not as HT (Non-Industrial) (c) GHIAL, being an infrastructure industry carrying activities for the economic growth as well as national and international commerce, should be treated as a separate category entitled for more appropriate and lesser tariff as compared even to HT Industry. Accordingly, a new category should be created for infrastructure industry such as GHIAL and for application of more favorable retail tariff (d) GHIAL should have a tariff which reflects the cost of the supply inclusive of reasonable return to the distribution Licensee.

CPDCL: As per the tariff order, the HT Cat-I is applicable for supply to all H.T. Industrial consumers. Industrial purpose shall mean manufacturing, processing and for preserving goods for sale, but shall not include Shops, Business houses, Offices, Public buildings, Hospitals, Hotels, Hostels, Choultries, Restaurants, Clubs, Theatres, Cinemas, Railway Stations and other similar premises not with standing any manufacturing, processing or preserving goods for sale. The International Airport does not come under HT-Cat-I due its nature of utilization. The request of GHIAL is not agreed

Tariffs in Rural areas

128. Electricity tariff charges in rural areas should be less than charges in urban area like telecom charges

CPDCL: Not agreed, as it affects the revenues of DISCOM

Metering of Agricultural Services

129. Meters are to be fixed for agricultural pump sets and with the meters, the line losses are to be calculated effectively

CPDCL: There are about 9.0 lakh agricultural pump sets in CPDCL. Fixing of meters to individual pump sets and taking meter reading monthly/bi-monthly is not economical. At present, agricultural consumption is being estimated as per the sample methodology prescribed by the Hon'ble APERC .

Tariff for Nurseries

130. The Hon'ble A.P. High court's order dated 01-10-2002 says that nursery is agriculture activity and thus nurseries should be charged under agriculture. It is requested to reconsider the issue again and to bill nurseries under agriculture category.

CPDCL: GoAP has given provision to consider only rural nurseries under agricultural tariff and ready to bear the expenditure. The nurseries in urban areas are billed under commercial category

Issues of Akhila Bharatiya Vishwa Karma Parishad

131. (a) The Commission has to order the DISCOMs to bill the black smith works such as welding, lathe, drilling and grinding with connected load below 5 H.P. under LT-Category IV:Cottage Industries. (b) Orders may be given to provide three phase supply to Vishwakarma cottage industries which were converted from Category-II to Category-IV (c) Despite many appeals from Bharatiya Vishwakarma Parishad for change of Category for Vishwakarma industries, the DISCOMs are not giving clear cut orders

CPDCL: (a) Black smithy up to 5HP, including incidental lighting in the premises, is already covered under cottage industry LT IV (b) As per GTCS clause 3.2.1 for motive power installations exceeding 1.5 HP, 3-phase LT supply is given (c) Orders of Hon'ble Commission in this regard (vide Para no. 252 Tariff Order 2008-09) are being complied. However, any specific instance may be brought to the notice of concerned DE/ Operation for redressal

Issues of Induction Furnace Units

132. (a) The maximum demand charges are collected to make the power supply available to the consumers round the clock in a day and all the days in a month. If for any reason the Licensee is unable to make continuous power supply available, the consumers are entitled for proportionate reduction in maximum demand charges (b)

Due to scheduled and unscheduled power cuts, the power supply is not made available to the consumers for a major part in a given month. However, Licensee is calculating load factor by presuming that power supply has been made available for the consumers for the whole month (i.e., 720 Hours), resulting in loss to the HT category -I consumers (c) provide for power factor incentive to all the consumers who maintain higher power factor over and above the fixed power factor of 0.9 (d) make necessary provision for awarding 18% interest on the security deposit made by the induction furnaces

CPDCL: (a) MD charges are basically collected to compensate the capacity of the system. Even for the short period, the capacity has to be made available whether it is used or not (b) Disagree. It affects the expenditure of the other categories. It is very difficult to monitor with the present technology in the metering (c) Maintaining power factor near unity will be more beneficial to the consumers. As such, further incentive may not be required (d) As per Tariff order 2004-05(Para no. 696 of pg. 247), 6% p.a. is being calculated as interest on security deposits.

PART-C: ISSUES RELATED TO EPDCL

Sales Forecast of EPDCL

133. As per Table 16 on p.90 of filings, while sales in agriculture category grew at 2.3% in the CY (2008-09) over PY (2007-08), it is expected to increase slightly by 3.9% in the EY (2009-10), from 1366.99 MU to 1420.30 MU. One may compare this with the estimated growth in consumption of domestic consumers at 8.7% for the EY, HT-Industrial at 13.66% (all voltages together) and the over all growth rate for all the consumers for EY at 11.83%

EPDCL: The sales forecast is being prepared on the basis of historical sales growth rates observed for respective categories.

Power Purchases from IPPs, NCEs etc.,

134. (a) During the CY, purchases from Gauthami at Rs.2.76/unit and GVK Extension at Rs.3.82/unit compared to Rs.1.99/unit by GVK and Rs.2.08/unit at Spectrum, need to be explained. Similarly for the EY (2009-10) the rate of purchase of power from Kona Seema, Gauthami and Vemagiri at Rs.2.30/ unit and GVK Extension at Rs.2.91/unit compared to Rs.2.04/unit for GVK and Rs.1.92/unit for Spectrum need to be explained by the EPDCL (and other DISCOMs) (b) A total of 312.34 MU is estimated to be purchased in the CY (2008-09) from all available sources of NCE, Biomass power generation of 123.56 MU, forming 40% of it at Rs.3.14/unit, Bagasse based generation

at 113.78 MU forming 36% at Rs.3.03/unit, Industrial waste generated power of 53.74 MU forming 17% at Rs.3.15/unit, Mini-Hydel generated power of 19.68 MU at Rs.2.43/unit forming about 6%. Municipal waste generated power and wind generated power being zero (c) 32.69 MW plant capacity for wind energy is reported but there is no generation both in CY and EY. This needs to be explained. The high rates of purchase of power generated from Municipal waste and wind energy need to be examined for improvement in the generating technologies so that more such power can be generated especially from municipal wastes through out the state

EPDCL: (a) DISCOMs have projected month wise energy requirement and availability (arrived based on sales projections during that month grossed up with projected losses). Finally, energy shortage during that month has been projected and therefore possible Power Purchase cost if DISCOMs have to procure from external sources. However, in reality, the energy deficit for each of 30 min/ 15 min blocks would be different and there could be possibility that energy deficit in certain time blocks and surplus in certain time blocks and no deficit/ surplus in the entire month. Therefore, DISCOMs are putting their full effort in optimizing the power purchases and sales based on day-day projections and scheduling the power from required sources (b) EPDCL is purchasing power from NCE sources at the rate prescribed by the Hon'ble APERC for different categories of NCE developers and under the directions of upper court on the petitions raised on the Tariff Order (c) EPDCL has no wind energy sources. The finding of the objector is correct.

LVS Project

135. APTRANSCO refused to buy the costly power to be generated by M/s LVS Ltd. at Rs.4/- to Rs.5/- a unit (depending upon the price of LSHS) and offered to pay the fixed costs of around Rs.30 Cr. per year. While the case is now pending in the Hon'ble Supreme Court, the four DISCOMs are sharing the expense of the fixed costs since 3-4-2003

EPDCL: It is informed that power plant of M/s LVS Ltd. has been put into operation consequent to reduction in oil prices.

Tariff for Street Lighting in Industrial Areas

136. APIIC, with the powers of local bodies transferred by GoAP, is maintaining street lighting in some industrial areas. The consumption due to this street lighting is being billed under LT-II:Domestic . The consumption on account of street lighting as per the Tariff Order shall be billed under LT-VI:Street Lighting. The DISCOMs

have changed category from LT-VI:Street Lighting to LT-II:Non-Domestic for billing the consumption on account of street lighting.

EPDCL: As per Tariff Order, LT Category-VI: Street Lighting is applicable for supply of energy to street lighting maintained by local bodies only. The Street lighting maintained by APIIC can not be put in LT Category-VI: Street Lighting

Reduction in Distribution Losses

137. These losses could be reduced considerably by controlling theft of energy with DPE wing and periodical check readings of consumer meters. The activities of DPE staff are required to be intensified.

EPDCL: EPDCL is concentrating on reduction of sub-transmission and distribution losses and has taken up a number of initiatives like erection of new sub-stations at load centers, re-orientation of lines, erection of interlinking lines, intensive inspections by DPE and operation wings, providing high accuracy/static energy meters, energy efficiency measures implementation, exhaustive energy audit to find areas of high losses etc., The suggestions received will be implemented wherever possible

Reduction in Tariffs

138. The rate of inflation has slipped to 5.91 percent by the end of December 2008. It is likely to be slipped further to less than 5 percent by March 2009 as per the estimation of financial experts and banks. Tariff for domestic services for the year 2009-10 may be examined for a reduction of 5 percent in the proposed rates for the year 2009-10.

EPDCL: Electricity tariffs are largely influenced by the availability of power and power purchase cost, not by rate of inflation. In spite of increase in power purchase cost, the tariff rates are kept at same level

Payment of interest for Advance Payments

139. The DISCOMs need to examine the payment of bills in advance like telephone bills or electricity bills in Maharashtra, as these funds can be utilized for development work. The interests on these amounts may be paid as the DISCOMs can save money to be paid to E-Seva centers for collection of bills apart from saving the cost of disconnections.

EPDCL: As per Regulations, the consumer shall have the facility to make advance payments towards consumption charges and require the Licensee to adjust the

amount against the bills that may be raised from time to time. Such advance payments do not attract any interest

Regularization of unauthorized additional loads of services under LT

140. On the proposal for the regularization of unauthorized additional loads in commercial and domestic services, necessary action is required to be initiated as the public funds are locked up due to unauthorized actions of consumers.

EPDCL: This item is in the purview of APERC

Compliance with the Directives issued by APERC

141. (a) Compliance with the directive on energy audit is not clear (b) Directive on multiple connections- The identified number of connections is 2234 only, in all the divisions of five Districts under EPDCL. It appears to be incorrect (c) Consumer pass books-The meter card/passbook shall be maintained by the Licensee at consumer's premises in appropriate form and all periodical readings taken for billing purposes, as per clause 9 of Regulation No.5 of 2004. (d) Payment of compensation for default in compliance with SoP- This is not being implemented strictly as the call centers are not registering all the complaints from the consumers and no complaint numbers are being given to consumers. (e) Availability of GTCS copies-The GTCS copies in English or Telugu are not available in all the offices up to section level. (f) Disconnection charges-The Reconnection (RC) charges are being collected, without disconnection, at all collection centers including collection center at call centre, VUDA building, Visakhapatnam.

EPDCL: (a) the process of energy audit is explained to the Hon'ble Commission in brief. EPDCL is adopting feeder centric energy audit and loss reduction approach duly considering MRI readings from the feeder meters and billed units from the sales data base (b) The possible cases are identified with the help of software and checks are carried out for these services (c) It was informed to the Commission in the filing to reexamine the issue and the Commission will decide on this issue in the next Tariff Order (d) Payment of compensation for defaults in SoP will be made as per the orders given by CGRF (e) Hard copies of GTCS in English version were already supplied up to AE/AAO level. The soft copy of English version is kept in EPDCL website for easy access to any officer/staff. Action will be taken to translate GTCS in Telugu (f) Such incidents are rare in EPDCL. However, action will be taken, if it is brought to the notice of higher officials

Shifting Meters out side and fixing on outer walls of the buildings

142. It is an erroneous and violation of clause 7.1.4 of GTCS. APERC did not give any direction to DISCOMs in this regard.

EPDCL: Meters are being shifted from inside to outside according to the convenience of accessibility for reading and inspection at any time.

Suggestions for better service

143. (i) The system of connecting all the offices by an independent exchange may be introduced in Visakhapatnam, Vijayawada and other cities. (ii) Trolley mounted distribution transformers may be adopted for quick replacement of failed DTRs (iii) the system of recording of meter readings through digital cameras and embossing the same on the bills may be adopted to minimize consumer complaints of non/incorrect reading of the meters

EPDCL: Suggestions will be examined for consideration in respect of trolley mounted distribution transformers to restore supply with minimum interruption. HT Billing is being automated though AMR. The other suggestions will be implemented for billing of consumers in LT.

Concessional Tariffs for Sericulture

144. Concessional tariffs are extended to Pisciculture and poultry industry. The power supply utilized by the mulberry cultivators for rearing cocoons is charged under LT-II:Non-Domestic Tariff. Concessional tariff may be extended to these consumers also.

EPDCL: It is under the purview of Hon'ble APERC to decide on applying concessional tariff to mulberry cultivation

Use of CFL Lamps

145. As per the directive of APERC, response from the Licensee is expected on the issue of use of CFL bulbs, the likely adverse effects of adoption of CFL lamps of low power factor, the steps taken/proposed to be taken by them to minimize/eliminate such adverse effects and their own evaluation whether or not support from the Commission in this endeavor should be continued.

EPDCL: suggestion will be examined

Introduction of slabs in LT Category-II

146. Introduction of another slab of 51 to 100 units for consumers who may be charged at the rate of Rs.5/- per unit for consumption beyond 50 units and the slab covers many of the rural commercial establishments.

EPDCL: The suggestion will be taken to the notice of Hon'ble APERC

Reduction in Tariff for LT Category-III

147. As observed by the Hon'ble Commission in its Tariff Order-2008-09, three phase supply is required for running rural small scale enterprises/industries. But, three phase power is supplied for 7 hours a day only, that too, on a shift basis. They are being charged at Rs.3.75 per unit. The Licensee may explore alternate ways of providing three phase supply for longer periods for such units, but in the mean time, the consumers may be charged at concessional rate at Rs.2.45/unit for the rural industries up to 30 HP.

EPDCL: The suggestion will be taken to the notice of Hon'ble APERC

Payment of Ex-gratia during accidents

148. In PY (2007-08) it is replied that 123 Nos of non-departmental persons died in electric accidents in the DISCOM area, but, only 20 of them (16%) have been paid ex-gratia at an average rate of Rs. 43,000/-, 11 Nos of departmental staff are reported to have died in electric accidents in FY 2007-08 and only 3 of them have been paid compensations on an average of Rs.3,54,346/-. In the CY (2008-09), in the first six months, 27 persons died, of whom, only 1 has been paid Rs.100,000, very far from Rs 3,50,000, being provided to a permanent staff member.

EPDCL: For the departmental staff died in electrical accidents compensation is being paid as per the directions of the Labor Commissioner; For Non-Departmental persons died in electrical accidents, Rs.1,00,000/- is paid as ex-gratia; During 2007-08, for 30 accidents, out of 45 occurred, an amount of Rs.13.4 lakh has been paid and during this year for 3 accidents out of 24 occurred, Rs 3 lakh has been paid; Non- payment of ex-gratia for the balance non-departmental persons died in electrical accidents is due to non-receipt of necessary documents required for payment viz., post mortem, panchanama, FIR and legal heir certificates etc.

Reduction in Tariffs for Old Age Homes

149. Tariff for this category may be reduced so that there can be a relief of at least 50 percent in monthly bills

EPDCL: It is not possible to grant any relief to a single consumer under the rules in force. However, the request will be taken to the notice of Hon'ble APERC

Tariffs for Cottage Industries

150. (a) Power Supply to the Cottage Industries in villages is being released under LT Category-II and III, thus collecting higher charges (b) Services converted from LT Category-II to LT Category-IV, are being extended single phase supply only, instead of extending 3 phase supply (c) Welding, lathe and milling be categorized as ancillary works of Black smithy and be treated as cottage industries and the contracted load limit also be increased to 10 HP

EPDCL: (a) All the Industries, with contracted loads of below 5 HP, are being released in Category-IV only (b) GTCS are being followed by DISCOM (c) In the purview of APERC

Validity of HT Agreements

151. The minimum period of the HT agreements for contracted load is to be reduced to one year from the existing two years. Notice period for deration or reration also to be reduced to one month

EPDCL: In the purview of APERC

PART-D: ISSUES RELATED TO NPDCL

Concessional Tariffs

152. (a) To approve concessional tariff announcements/requests of GOAP for horticulture nurseries in rural areas, salt manufacturers, fish (Pisci) and prawn cultures in their respective categories by providing new sub-categories, only after confirming from the GoAP as to its commitment to fund the additional expenditure in doing so (b) To permit concessional tariff to LT Category-II consumers, with consumptions between 51 and 100 units per month, at Rs.5/- per unit (c) To give concessional tariff to small size educational and charitable institutions such as old age homes, orphanages, homes for the physically and mentally challenged, and small size village temples/churches/mosques etc. who consume less than 100 units per month

NPDCL: In the purview of APERC.

Use of CFL Lamps

153. Response from the Licensee is expected on the issue of replacement of ordinary bulbs by CFL bulbs, as per the directive of APERC

NPDCL: The Licensee has carried out tests on power factor of CFLs of different makes. The environmental effects are yet to be studied. It is noticed that the Chinese make CFL failure rate is higher compared to that of other companies. The higher failure rate is attributed to not only voltage fluctuations in power supply but also inferior standards of house wiring, low manufacturing quality, earthing problems and loose connections in lamp holders

Agricultural Consumption Estimates

154. (a) The estimate of consumption for LT V-agriculture category is the same at 2909 MU for the past four years which is expected to improve marginally by 4.2% for FY2009-10 and follow a steady growth for the rest of the control period at around that rate (4%) till FY2013-14. For other LT categories, the growth in consumption is anywhere between 7 to 15% per annum. Could the Hon'ble Commission and the NPDCL explain the rationale behind these projections? (b) On the other hand, the growth rate of agricultural actual consumption, being portrayed by NPDCL in the last three years, has been actually decreasing from a higher level of 16% in 2006-07 to 6.6% in 2007-08 and further to 4.9% in the current year (FY2008-09). These decreases also need to be explained

NPDCL: The growth rate of 4.2 percent has been projected based on the expected release of new agricultural services

Continuing Deficit

155. The filing shows that the deficit is likely to be Rs1810.62 Cr. for the current year and Rs.1802.56 Cr. for the EY2009-10. The Licensee should explain the continuing high deficit despite GoAP subsidies for farmers and domestic consumers

NPDCL: The actual gap was Rs.1061.49 Cr. after netting off of subsidy from GoAP for Rs.749.13 Cr, for the current year 2008-09. This is mainly due to increase in power purchase cost by Rs.951.31 Cr, transmission, SLDC and PGCIL charges by Rs.14.48 Cr. A similar situation is expected to continue in the EY 2009-10

Separate feeders for rural domestic services

156. Supply of electricity to rural domestic services through separate feeders.

NPDCL: For all the villages in NPDCL supply areas, separate feeders are arranged for 24 hour supply to domestic services.

Booking of Additional Load in Category-III A

157. Additional loads in Category-III-A shall be booked based on the recorded demand and it shall not be on the basis of connected load

NPDCL: No reply

PART-E: ISSUES RELATED TO SPDCL

Industrial Service Connections in Rural Areas

158. Concession in fixed charges shall be given to industries connected to rural agricultural feeders on which the power supply is restricted compared with similar consumers located in urban areas. Accordingly, the fixed charges shall reflect the supply conditions also.

SPDCL: No such proposals for segregating industrial consumers based on geography or period of supply for fixed charges of industrial services in rural areas were submitted in the current ARR filings.

Remarks on ARR filings of SPDCL

159. SPDCL's filings are to be returned by the Commission for re-submission with the following remarks-(a) to clarify the correct figures regarding number of consumers, corresponding load and estimated / metered consumption in different categories of agricultural consumers as compared to the figures represented in Form-7 of 2009-10 filings (b) to correct all statements on agricultural consumption after due consultation with agriculture and horticulture departments in each circle / district (c) to submit report on efficacy of HVDS installations in different circles in reducing power losses etc., (d) to submit report on impact of lift irrigation schemes on power consumption by farmers serviced by the lift irrigation schemes in the area (e) to clarify on the efficacy of CFL bulbs w.r.t low power factor and disposable problems (f) to clarify the reasons for the large number of pendency of applications for new connections and suggestions to clear the same as it has a direct bearing on unauthorized use of power (g) to give information on time taken to replace burnt transformers, transport provided or whether consumers have used their own transport (h) To mention the time taken to replace stuck up meters and burnt meters from the day of reporting or detection and similarly for break downs,

interruptions etc., All figures circle wise need interpretation as to why more in some circles and less in others (i) All figures reported / projected in different categories need interpretation and explanation. Mere submitting of figures is not explanation (especially regarding thefts and pilferages) (j) to mention steps being taken to ensure genuine production of NCE power especially by biomass units and steps being taken to closedown / shift units in excess of biomass capability of a region (k) To provide a proper analysis of arrears of consumers over Rs.50,000/- as suggested (l) to mention steps being taken to provide reasonable relief to victims of electrical accidents on par with the permanent employees of SPDCL as also realistic relief for animals killed and property destroyed in electrical accidents for which DISCOM is responsible

SPDCL: The current ARR and tariff filings were submitted to the Hon'ble Commission as per the regulations and guidelines of the Commission from time to time. The public notice on the ARR and tariff filings is issued after admission of the filings of the Licensee by the Hon'ble Commission. Therefore, the question of returning the filings does not arise. All the relevant information as desired by the objector is provided in the current ARR and tariff filings as per the formats given by the Commission.

Consumer Service Issues

160. (a) CGRF shall accept the petitions filed by the consumer societies, as provided in Regulation No: 7 of 2004 (b) Necessary action shall be taken for proper functioning of Consumer Service Centers. Staff is not cooperating with consumers (c) DISCOM is not giving proper replies on the suggestions/objections filed against the filings (d) Commission may direct the DISCOM to form advisory committees at sub-division, division and circle levels

SPDCL: (a) Under the purview of the Commission (b) Cooperation of Staff is there (c) No comment (d) Meetings are being conducted regularly

Sales Growth Rate in Rural Areas

161. (a) There is an estimated increase of 12.88% in consumption in 2008-09 and the overall consumption for current year is expected to grow to 3086.40MU which is marginally higher than the SPDCL projection and APERC approved target of 3063.46 MU (+0.75%). The forecast for FY 2009-10 is 3450.59MU (11.8%) and is projected to taper off to 10%+ for the following years (b) It is mentioned that: "As measures like 24 Hrs. supply and RGGVY - Rural Electrification Program constitute external factors, the impact of which cannot be projected from historical data, the impact of these has been assessed separately and added on to the base forecast to arrive

at the final forecast”. (Pg-5, Para 3 of filing) It is strange that the above two schemes are treated as ‘external factors’.

SPDCL: The sales forecast as mentioned in the filings is done based on modified trend approach. As the number of services to be released under RGGVY and number of services to be covered for 24 hr supply vary from year to year depending on the execution of the projects, the sales growth due to these two factors was considered separately apart from the normal domestic sales growth.

Separation of Agriculture Feeders-Use of Single Phase Transformers

162. Ever since the domestic feeders have been separated from the agricultural feeders and single phase transformers introduced, consumers living in rural areas are experiencing sudden high voltage whenever the power supply is restarted after a shift (normally twice). This powerful on rush of electricity, often damages bulbs, ordinary as well as CFL and damages electrical equipment.

SPDCL: The problem of fluctuations in voltage, if any, will be solved if taken to the notice of the local electricity authorities

Sales projections in Domestic Category

163. It is indicated in the summary of filings that revenue from LT-I Domestic supply shot up to Rs.970.80 Cr. in FY2007-08, far beyond the APERC target of Rs.626.58 Cr. (+55%). The following year, 2008-09, it decreased to Rs 861.02 Cr. (but still higher than the APERC target of Rs.807.60 Cr.). These fluctuations may be explained by SPDCL

SPDCL: Revenue from LT-I Domestic category for the year 2007-08 is only Rs. 638.07 Cr. The wrong figure is a typographical error

LT Cat-II Non Domestic / Commercial

164. To consider another slab of 51 to 100 units consumers who may be charged at the rate of Rs.5/- per unit for consumption beyond 50 units, which will cover many of the rural commercial establishments.

SPDCL: New slabs have not been proposed in the current ARR & Tariff filings

Estimation of Agricultural Consumptions

165. Table No: 11 of Para-147 of Tariff Order for FY 200809 shows as follows (all figures in MU).

Year	As per T.O	Actual Agl. Consumption	Remarks	% Difference
2006-07	3291	3684.13 (3291 filing)	+393 MU excess	+12% this sharp rise needs explanation (for some reason 05-06 T.O expected 3053 but actual as 2979 i.e., -2.4%)
2007-08	3291	3502 (3922 filing)	+211MU excess (but 420 short of filing)	+6.4% excess over sanction needs explanation (-10.70% less over filing also needs explanation)
2008-09	3291	3446.82 (estimate) (4079 filing)	+156MU excess (but 632.18 short of filing)	+4.74% excess over sanction needs explanation (but -15.5% less over filing also needs explanation) * explanation is also needed for portraying this actual figure over TO as 8.06% (instead of 4.74%)

With such wide variations from filings and Tariff orders over the years it is difficult to accept the projections of SPDCL of further growth rate at 4.2% (09-10), 4.1% (10-11) etc., (page 16 of filings). The estimate of consumption by the Tariff Order of LT Cat-V is the same figure of 3291MU for the past three years but is expected to improve marginally by 4.2% for FY 2009-10 and follow a steady growth for the rest of the control period at around that rate till FY 2013-14.

SPDCL: Agricultural consumption forecast depends on several factors as explained in the ARR filings. The amount of rain fall, number of crops, type of crops, availability of power, number of services released, number of new lift irrigation schemes etc. affect the forecast. These factors, as well as lack of scientific methodology for assessment of consumption are affecting the agricultural sales forecast. While most other categories had shown an increasing trend, agricultural sales have not shown a particular trend over the years. Hence, the growth rate of consumption in agricultural category can't be compared with that of other categories

Non-Fixation of Capacitors

166. The reasons for non adoption of capacitors by farmers are many (a) That low voltage supply is made worse by installing capacitors (not true) (b) If the system benefits due to the installation of capacitors then let the authorities install them (c) When power is 'free' why should farmers be compelled to buy and install capacitors (d) In a scenario of low voltage and frequent break down of supply (depending on the region), the farmer is not convinced of the merit of using a

capacitor on his pump set (e) Where HVDS transformers have been introduced, thanks to the smooth flow of power, farmers feel no need to add another expense of capacitor to their pump set (f) Capacitors are not life long fixtures. They have a limited life and need replacement every few years

SPDCL: Despite resistance from farmers to install capacitors due to the additional cost, section officers are creating awareness among farmers for usage of the same

Tatkal Connections

167. As per Form-7 of filings for base year (2008-09) No. of consumers: 50690, connected load: 299071 HP, consumption / sales: 227.16 MU. As per Table 3.27: No. of consumers: 993207, connected load: 5084259 HP, consumption / sales: 295.833 MU. The Licensee, SPDCL, owes an explanation regarding the discrepancies. Similar discrepancies could be observed for other categories of consumers as well.

SPDCL: Under Tatkal scheme, 90383 services with a connected load of 457553 HP were released up to Oct'08. The Tatkal services consumption estimates are submitted to APERC every month. The no. of services, connected loads and consumption also vary every month. The yearly estimate (i.e., from Nov'07 to Oct'08) is calculated by taking total of individual 12 months estimates. Thus, the sum for the year works out to 993207 services, 5084259 HP and 295833470 units. The difference between the services released up to October 2008 and the services billed for the 12 months may please be noted

Un-Authorized Agricultural Services

168. The staff of the DISCOM is hand in glove with the persons who indulge in unauthorized use of electricity for agricultural purposes.

SPDCL: Special drives are under progress for regularization of unauthorized services. Disciplinary action will be initiated on the employees, if found guilty

Replacement of Distribution Transformers (DTRs)

169. When the DTRs are failed they shall be replaced at the cost of the DISCOM

SPDCL: The DISCOM will replace the failed DTRs at its cost only.

Power Supply on Rural Feeders

170. Rural feeders are being fed with 7 hrs. 3 phase supply and 10 hrs. single phase supply. No supply for the remaining 7 hrs.. But, rural consumers are paying charges on par with the urban consumers. Neither the Reforms Act nor the Electricity Act says that the consumers of rural feeders are entitled for 17 Hrs. supplies.

SPDCL: The overall power demand is more than the availability in the country which is necessitating load shedding in most parts of the country. Efforts are on to increase the generation, reduce losses and also to conserve energy. Rural India is not as developed as urban India in all walks of life. Power sector is laying lines to the interior tribal hamlets also as part of a social responsibility and does not think in terms of commercial gains. Efforts are in place to arrange 24 hour power supply to the rural areas also. Hopefully power sufficiency can be achieved in the near future with the addition of several new public and private generating stations

Tariffs for Fruit Processing Industry

171. At present, the fruit processing industry is recognized as “Seasonal” for concessional tariff during the off season. However, the requirement for processing of fruits and vegetables arises even during the off-season period. It is requested that, in LT Category III-B: Industry, billing may be limited to the actual consumption energy only.

SPDCL: No such proposals in ARR filings

Reduction in Fixed Charges for Rural Rice Mills

172. As the DISCOM is unable to extend 24 hrs power supply to rice mills in rural areas, the fixed charges should be reduced

SPDCL: No such proposals in ARR filings

CHAPTER-IV STATEMENT OF GOVERNMENT OF ANDHRA PRADESH

General

173. The Government of Andhra Pradesh (GOAP) presented its views before the Commission during the public hearing at Ongole on 09th February, 2009. Smt.Chaya Laxman, Joint Secretary to Government, Energy Department, standing in for Sri.A.K.Goyal, Special Chief Secretary to Government, highlighted some of the important achievements of the power sector since the commencement of the reform process in the State. Statement of the GOAP is reproduced below.

Statement

174. “All the Electricity utilities have performed exceptionally well. The transmission and distribution utilities have reduced T&D losses from 19.06% to 18.10 % up to November, 2008 and reduction is estimated to reach 17.30% by end of 2008-09. The APTRANSCO received ‘India Power Award 2008 for overall utility performance from the Council of Power Utilities (CPU). The APGENCO has also performed consistently well maintaining a PLF of about 85% during the year 2008-09, up to January, 2009
175. Realizing the urgency for capacity addition in power sector, the State Government has entrusted the State owned APGENCO with the implementation of capacity addition Programme of 15,937 MW, out of which 498 MW has already been commissioned and 10,027 MW is programmed to be commissioned within the next 5 years i.e., 2009-14. The present installed capacity in the state is 12,424 Mega Watts (MW), as on 31.01.2009
176. APGENCO has also programmed to foray into Nuclear Power Generation with Joint Venture (JV) of Nuclear Power Corporation of India Limited and plans are in the development state to set up 2 x 1000 MW Nuclear Power Plant at Pulivendula in Kadapa District
177. Government of Andhra Pradesh has given foremost importance to the development of Power Sector. In its endeavor to provide quality and uninterrupted supply of power to all consumers in the State, particularly the consumers in the rural areas, 20,26,346 rural households under RGGVY and 1,09,794 urban householders in selected wards in 11 Municipal Corporation and 119 Municipalities have been electrified under INDIRAMMA Programme

178. 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 in the present Rabi Season
179. 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 Tariff in the country and there is a gradual reduction in industrial tariff year by year. The overall industrial effective tariff for the year 2008-09 with the incentive scheme is Rs.3.46 per unit
180. Priority is also given by the Government for promoting Lift Irrigation in Order to reduce exploitation of ground water
181. The filings made by the utilities for the financial years 2009-14, reflect the key objectives set by the Government of Andhra Pradesh
182. To conclude, the Government is committed to providing necessary financial assistance as needed by the Power Sector and providing subsidy to the utilities in accordance with the provisions of Section 65 of the Electricity Act, 2003”

CHAPTER-V ISSUES RELATED TO WHEELING TARIFF DETERMINATION

General

183. The MYT Regulatory framework for determination of revenue requirement for distribution business and wheeling tariff is notified in Regulation 4 of 2005. As per this framework, the Licensees are eligible to recover the Aggregate Revenue Requirement (ARR), i.e. the revenue required to meet the distribution cost normally for a year, through wheeling tariff. Further, incentives for good performance and disincentives for adverse performance are also indicated in Regulation 4 of 2005.
184. The four distribution Licensees, CPDCL, EPDCL, NPDCL and SPDCL, filed the ARR for distribution business and proposed the wheeling tariff consisting of a) wheeling charges and b) wheeling losses for each year of the Control Period from 2009-10 to 2013-14 as briefed in Chapter-II. The framework adopted for determination of the wheeling tariff is as follows;
- a) The components of each item of the ARR filed by the Licensees are examined for consistency with the Regulation 4 of 2005. If required, the proposed amounts filed in the ARR have been modified based on a) separate analysis and/or b) corrections with available additional information.
 - b) the approved ARR is apportioned among three voltages, 33kV, 11kV and LT, based on different parameters as proposed by Licensees. The capacity in kVA for each voltage level is also arrived at using the information provided by the Licensees. Based on apportioned ARR and capacities computed for each voltage level, the wheeling charge is computed in Rs./kVA/Month.
 - c) the distribution losses for each of the three voltage levels, 33kV, 11kV and LT, have been fixed while keeping the Licensee proposed wheeling losses, potential for loss reduction and other parameters and policies into account. Through aggregating the approved losses at each voltage level, the Loss Reduction Trajectory has been arrived at for each year of the Control Period.
 - d) the wheeling tariff consisting a) wheeling charges and b) wheeling losses (in percent) for each voltage level, applicable for each year of the Control Period, is specified separately for every Licensee.

Analysis of Issues

185. In course of wheeling tariff determination, some important issues have been analyzed with regard to;
- a) approval of revenue requirement,
 - b) computation of wheeling charge, and
 - c) fixing the loss reduction trajectory.
186. Some of these issues which have a direct bearing on approval of revenue requirement and wheeling tariff determination are briefly explained hereunder.

Debt-Equity Ratio

187. The Licensees filed the debt-equity ratio for computing the return on capital (cost of capital) at 75:25, except CPDCL which filed the varying ratio for the Control Period. The details of capital structure filed by Licensees are given in Table 31.

Table 31: Capital Structure filed by Licensees

Financial Year	CPDCL		EPDCL		NPDCL		SPDCL	
	Debt	Equity	Debt	Equity	Debt	Equity	Debt	Equity
2009-10	74.66%	25.34%	75.00%	25.00%	75.00%	25.00%	75.00%	25.00%
2010-11	75.35%	24.65%	75.00%	25.00%	75.00%	25.00%	75.00%	25.00%
2011-12	75.17%	24.83%	75.00%	25.00%	75.00%	25.00%	75.00%	25.00%
2012-13	75.11%	24.89%	75.00%	25.00%	75.00%	25.00%	75.00%	25.00%
2013-14	74.88%	25.12%	75.00%	25.00%	75.00%	25.00%	75.00%	25.00%

188. As per clause of 3(3) Regulation 4 of 2005, each Licensee shall file:
- A proposal for appropriate capital structure and its cost of financing (interest cost and return on equity) for the purpose of computing Weighted Average Cost of Capital.*
189. The information given in support of the filed capital structure is limited. In this context, the debt-equity ratio is approved at normative level of 75:25 percent uniformly for all the Licensees throughout the Control Period. This approved debt equity ratio is used in computing the return on capital throughout the Control Period.

Cost of Debt and Return on Equity

190. The Licensees filed the cost of debt and return on equity in percent for each year of the Control Period which are used to compute the return on capital employed. The Licensees kept the return on equity at 14 percent but filed the cost of debt in

the range of 11-14 percent per annum. The details of the cost of debt and return on equity filed are given in Table 32.

Table 32: Cost of Debt and Return on Equity as filed by Licensees

Financial Year	CPDCL		EPDCL		NPDCL		SPDCL	
	Debt	Equity	Debt	Equity	Debt	Equity	Debt	Equity
2009-10	10.98%	14.00%	10.38%	14.00%	13.84%	14.00%	11.00%	14.00%
2010-11	11.84%	14.00%	10.87%	14.00%	13.18%	14.00%	11.25%	14.00%
2011-12	12.35%	14.00%	11.37%	14.00%	12.66%	14.00%	11.50%	14.00%
2012-13	12.72%	14.00%	11.96%	14.00%	12.86%	14.00%	11.75%	14.00%
2013-14	13.04%	14.00%	13.01%	14.00%	12.99%	14.00%	11.75%	14.00%

191. Though the Licensees requested for 16% return on equity, the filings were made with 14 percent. It is to be stated that, as per the earlier regulatory practice, the return on equity is provided at 16 percent while keeping the return on equity at 14 percent in distribution business and the balance 2 percent as supply margin in retail supply business.
192. The existing loan profile of the Licensees and contracted loans for future years have been thoroughly examined and found that the projected cost of debt is on higher side. The cost of debt is approved at 10 percent per annum throughout the Control Period uniformly for all Licensees with due consideration to the cost of debt on existing loans and contracted loans for future years, and the likely interest rates during the Control Period.

The Return on Capital (Weighted Average Cost of Capital or WACC)

193. Using the proposed debt-equity ratio, cost of debt and return on equity, the licenses computed the return on capital (WACC) as per formulae provided in Regulation 4 of 2005. The details of return on capital filed by the Licensees are given in Table 33.

Table 33: Cost of Capital(WACC) filed by Licensees

Financial Year	CPDCL	EPDCL	NPDCL	SPDCL
2009-10	11.75%	11.28%	13.88%	11.75%
2010-11	12.37%	11.65%	13.38%	11.94%
2011-12	12.76%	12.02%	12.99%	12.13%
2012-13	13.04%	12.47%	13.15%	12.31%
2013-14	13.28%	13.25%	13.24%	12.31%

194. With the cost of debt at 10 percent and return on equity at 14 percent, the return on capital (WACC) is computed and approved at 11 percent per annum throughout the Control Period uniformly for all the Licensees. This measure is expected to promote some efficiency in searching for the low cost funds since the return on capital is approved for each year of the Control Period and the gains or losses are to the account of the Licensees.

Loss Reduction Trajectory for the Control Period

195. As per clause 3(4) of the Regulation 4 of 2005, in the filings, the Licensees shall include;

Targets proposed for reduction of distribution losses during the Control Period duly adhering to the Licensees' Standards of Performance Regulation.

196. The Licensees proposed the loss reduction trajectories separately for each year of the Control Period. The loss reduction trajectories filed by the Licensees are given in Table 34.

Table 34: Loss Reduction Trajectory proposed by Licensees

Financial Year	CPDCL	EPDCL	NPDCL	SPDCL
2009-10	17.97%	11.19%	17.18%	14.64%
2010-11	17.39%	10.96%	16.73%	14.35%
2011-12	16.76%	10.74%	16.23%	14.06%
2012-13	15.95%	10.53%	15.65%	13.78%
2013-14	14.94%	10.32%	15.05%	13.50%

197. The clause 5.4.6 of National Electricity Policy (NEP) states that the loss levels shall be specified, so as to bring down loss levels to be in line with the international practices by 2012. The international loss levels are in the range of 10-12 percent for both transmission and distribution.
198. Considering the normative loss level for Indian Electrical System at 15 percent (5 percent in transmission and 10 percent in distribution), the loss reduction targets are specified as envisaged in National Electricity Policy. As per National Electricity Policy, the Licensees should achieve the loss target of 10 percent by 2012.
199. While specifying loss trajectory with the consideration of the practical limitations, a grace period of two years is set to achieve the targets envisaged in National

Electricity Policy. The overall loss reduction targets (Trajectory) approved for the Control Period for each Licensee are given in Table 35.

Table 35: Loss Reduction Trajectory Approved for the Control Period

CPDCL:: MYT Loss Trajectory :					
Voltage	2009-10	2010-11	2011-12	2012-13	2013-14
33KV	4.07%	4.04%	4.02%	3.99%	3.96%
11KV	3.98%	3.77%	3.55%	3.33%	3.09%
LT	4.99%	4.36%	3.70%	3.51%	3.06%
Total	13.04%	12.18%	11.26%	10.83%	10.10%
EPDCL:: MYT Loss Trajectory :					
Voltage	2009-10	2010-11	2011-12	2012-13	2013-14
33KV	3.62%	3.56%	3.51%	3.47%	3.39%
11KV	3.83%	3.77%	3.76%	3.71%	3.65%
LT	3.68%	3.56%	3.47%	3.39%	3.28%
Total	11.12%	10.89%	10.74%	10.57%	10.32%
NPDCL:: MYT Loss Trajectory :					
Voltage	2009-10	2010-11	2011-12	2012-13	2013-14
33KV	4.50%	4.25%	4.10%	4.00%	3.90%
11KV	4.70%	4.43%	4.22%	4.14%	4.02%
LT	5.51%	4.70%	4.52%	4.41%	4.22%
Total	14.71%	13.38%	12.84%	12.55%	12.14%
SPDCL:: MYT Loss Trajectory :					
Voltage	2009-10	2010-11	2011-12	2012-13	2013-14
33KV	4.00%	3.75%	3.60%	3.50%	3.40%
11KV	4.19%	3.98%	3.79%	3.69%	3.63%
LT	4.31%	4.02%	3.86%	3.70%	3.60%
Total	12.50%	11.75%	11.25%	10.89%	10.64%

True up of Expenses Related to Previous Control Period

200. The Licensees provided the details of expenses related to previous years to be trued up in this filing for distribution business but not included these amounts in the estimates of ARR for distribution business. The Licensees provided the amounts to be trued-up for three completed years FY2005-06 to FY2007-08 and some Licensees estimated the amounts to be trued up for FY2008-09 also.

201. The true up mechanism is already specified in Regulation 4 of 2005 issued for determination of wheeling and retail supply tariffs. Clause 10(5) of Regulation 4 of 2005 provides for;

Pass-through of gains and losses on variations in “uncontrollable” items of ARR:- The Distribution Licensee shall be eligible to claim variations in “uncontrollable” items in the ARR for the year succeeding the relevant year of the Control Period depending on the availability of data as per actuals with respect to effect of uncontrollable items

202. As per clause 10(4) of Regulation 4 of 2005, only taxes on income are uncontrollable and thus variations in this item qualify for true up. Further clause 10(8) of Regulation 4 of 2005 provides for;

Notwithstanding anything contained in this Regulation, the gains or losses in the controllable items of ARR on account of factors that are beyond the control of the Distribution Licensee - force majeure - shall be passed on as an additional charge or rebate in ARR over such period as may be specified in the Order of the Commission.

203. It is appropriate to take up the issue of true up of expenses related to previous years separately after completion of the audited accounts for all years of the Control Period. As such, Licensees may seek the true ups outside the current filings as per the applicable regulations already notified.

Safety Measures

204. Several objectors in course of public hearings expressed the concern over safety issues in distribution network, especially in rural and semi urban areas. The issue is related to poor network maintenance leading to loss of human and animal lives apart from avoidable supply interruptions.
205. Recognizing the need to improve the safety in distribution networks, a sum of Rs.5.00 Cr. is provided per year as special appropriation expense in previous MYT Order for FY2006-07 to 2008-09. Verification of the information reveals that the Licensees have not fully utilized the amount for the purpose improving the safety conditions.
206. As per the regulatory practice, the amounts provided for such special purposes but not utilized are to be clawed back. With the expectation that the Licensees would invest the unutilized portion Rs.15 Cr. provided for the previous MYT period during the next Control Period, the unutilized amounts are not clawed back.
207. To improve the safety conditions in distribution network, a sum of Rs.5.00 Cr. per annum (Rs.25.00 Cr. for the Control Period) is provided for each distribution Licensee as one time expense item. It is expected that the Licensees fully utilize

the provision of Rs.25 Cr. to improve the safety conditions in the distribution network during the Control Period.

Wheeling Charges Proposal

208. The Licensees computed and proposed to levy the wheeling charges in the form of Rs./kVA/month at 33 kV and 11 kV voltages and Rs./kWh at LT level. The Licensees did not file the reason for such differential proposal, i.e. on capacity and energy in their filings. It is decided to fix the wheeling charges uniformly for all the three voltages on capacity, i.e. Rs./kVA/Month for each year of the Control Period.

Incentives and Disincentives

209. In the MYT framework, the approved ARR amount and loss reduction trajectory fixed are expected to provide enough incentive for better performances during the control period as variations in gains and losses remain with the Licensees during the Control Period.
210. The cost of debt and return on equity are also fixed for each year of the Control Period. There is enough potential for the Licensees to perform better in a)contracting the loans at cheaper rates b)plough back their own money into distribution business and c)other prudent financial practices. The gains and losses on this account are also to the account of Licensees during the Control Period.
211. It is felt that the approved ARR amount and Loss Reduction Trajectory are sufficient to provide incentives and penalties for the Licensees. Accordingly, no special measures for incentives and penalties have been contemplated for the Control Period.

CHAPTER-VI
WHEELING TARIFF DETERMINATION
CENTRAL POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (CPDCL)

Introduction

212. The Commission, after examination of the issues related to determination of wheeling tariff while considering the objections and suggestions received/heard on filings, examined the revenue requirement to fix the wheeling tariff for CPDCL for FY2009-10 to 2013-14 as detailed hereunder.

PART-A: REVENUE REQUIREMENT

Investments

213. CPDCL filed the capital investment expenditure under different heads for each year of the Control Period. In course of examination of these investment filings, it is found that the basis for capital investment plan for distribution network expansion and strengthening is lacking technical study and is more dependent on arithmetic method. Considering the strengthening of existing network, future network requirement and other financial aspects, a sum of Rs.4475.30 Cr. towards capital investment is approved for the Control Period. The approved investment amount is taken into determination of wheeling tariff. The details of approved investments for each year of the Control Period are given in Table 36.

Table 36: CPDCL: Approved Investments during the Control Period

(Rs.Cr.)

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	705.00	70.54	24.53	800.06
2010-11	692.00	69.23	28.11	789.34
2011-12	789.00	78.94	34.53	902.47
2012-13	810.00	81.04	37.06	928.10
2013-14	920.00	92.05	43.29	1055.33
Total	3916.00	391.80	167.51	4475.30

Figures are rounded

Return on Capital Employed (ROCE)

214. As per the Regulation 4 of 2005, the Licensee is permitted to claim the Return on Capital Employed (ROCE). The amount claimed in this manner is expected to meet the cost of debt and equity capital used to finance the assets used and useful in

the distribution business. The regulatory framework relating to compensating the capital employed in general is;

- a) the sum of the value of the assets and capital used in the distribution business is known as Regulatory Rate Base (RRB),
- b) the Return on Capital (WACC) in percent is worked out based on a) debt-equity ratio, b) cost of debt and c) return on equity, and
- c) the Return on Capital (WACC) in percent is applied on RRB to arrive at the ROCE for each year of the Control Period.

215. The return on capital (WACC) is approved at 11 percent per year while considering the following factors;

- a) the debt equity ratio is kept at 75:25 instead of varying the ratio for each year of the Control Period,
- b) the return on equity is approved at 14 percent since balance 2 percent return is provided in retail supply business, and
- c) the cost of debt is approved at 10 percent based on existing loan profile and likely future interest rates

216. The RRB is approved at Rs.10206.09 Cr. against Rs.21149.72 Cr. filed by CPDCL for the Control Period with the following modifications to the filings;

- a) to the extent possible and identifiable, a portion of fully depreciated assets is removed from RRB as the physical presence of these assets in distribution is unlikely,
- b) the approved investments and capitalization schedule of approved investments for each year of the Control Period are taken in RRB calculation,
- c) the working capital requirement for distribution business is computed based on guidelines provided in Regulation 4 of 2005 and on revised O&M expenses for each year of the Control Period. and
- d) the claim of certain amount under O&M stores in the RRB calculations is disallowed as such provision for O&M stores in RRB calculations is not provided in the Regulation 4 of 2005.

217. With the approved RRB and return on capital (WACC) the ROCE is computed and approved at Rs.1122.36 Cr. against Rs.2704.75 Cr. filed by CPDCL. The ROCE provided should meet the cost of debt and return on equity on the amounts used in the distribution business during the Control Period. The details of RRB and ROCE filed and approved for each year of the Control Period are given in Table 37.

Table 37: CPDCL: Regulated Rate Base and Return on Capital Employed

(Rs.Cr.)

Financial Year	Regulate Rate Base (RRB)		Return on Capital Employed(ROCE)	
	Filed by CPDCL	Approved by APERC	Filed by CPDCL	Approved by APERC
1	2	3	4	5
2009-10	2493.06	1679.23	292.90	184.66
2010-11	3441.02	1901.27	425.67	209.08
2011-12	4330.26	2069.64	552.51	227.60
2012-13	5088.15	2218.06	663.54	243.92
2013-14	5797.23	2337.89	770.13	257.10
Total	21149.72	10206.09	2704.75	1122.36

Figures are rounded

Depreciation

218. The depreciation expense is approved at Rs.1865.54 Cr. against Rs.3091.07 Cr. filed by CPDCL with the following modifications to the filings;

- the opening value of assets for each year of the Control Period is arrived at for the purpose of computing the depreciation,
- the approved investment amounts and capitalization schedule are taken for computing the opening value of assets for each year of the Control Period,
- to the extent possible and identifiable, certain portion of the value of fully depreciated assets but still appearing in asset registers is removed,
- the claims of depreciation on assets added during the year have been disallowed, i.e. only the opening value is considered, and,
- assets funded by persons other than Licensee are removed for the purpose of computing the depreciation as provided in Regulation 4 of 2005.

219. The details of asset base on which depreciation is computed and the depreciation filed and approved for each year of the Control Period are given Table 38.

Table 38: CPDCL: Asset Base and Depreciation for the Control Period

(Rs.Cr.)

Financial Year	Asset Base		Depreciation	
	Filed by CPDCL	Approved by APERC	Filed by CPDCL	Approved by APERC
1	2	3	4	5
2009-10	5006.19	4422.58	382.92	224.82
2010-11	6425.89	5226.02	501.06	301.67
2011-12	8039.00	6021.22	625.35	380.94
2012-13	9577.32	6849.95	730.05	443.94
2013-14	11135.51	7753.44	851.69	514.17
Total	40183.91	30273.21	3091.07	1865.54

Figures are rounded

Operation and Maintenance (O&M) Expenses

220. The net O&M expenses for the Control Period are approved at Rs.3969.22 Cr. against Rs.4830.10 Cr. filed by CPDCL with the consideration of the following;

- a) compared with the actual O&M expenses during the previous years based on annual accounts, the projections are rather high,
- b) if the actual O&M expenses of previous years are taken into account, the projections made based on norms bound to be lower, and
- c) the O&M expenses tend to be lower as the approved investment is lower than the proposed investment, for the Control Period.

221. The details of filed and approved O&M expenses for each year of the Control Period are given in Table 39.

Table 39: CPDCL: O&M Expenses for the Control Period

(Rs.Cr.)

Financial Year	Filed by CPDCL			Approved by APERC		
	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses
1	2	3	4	5	6	7
2009-10	799.55	146.09	653.46	715.26	70.54	644.72
2010-11	930.81	133.85	796.96	785.56	69.23	716.33
2011-12	1080.06	123.64	956.42	863.59	78.94	784.65
2012-13	1248.96	127.84	1121.12	950.21	81.04	869.17
2013-14	1449.08	146.94	1302.14	1046.39	92.05	954.34
Total	5508.46	678.36	4830.10	4361.01	391.80	3969.22

Figures are rounded

Taxes on Income

222. Tax on income as expense is approved at Rs.7.50 Cr. against Rs.16.50 Cr. filed by CPDCL for the Control Period. The reduction is based on previous period tax payment history and likely profits during the Control Period.

Special appropriation for Safety Measures

223. To improve the safety in distribution networks, a sum of Rs.25.00 Cr. for the Control Period at Rs.5.00 Cr. per annum is approved as one time expense item. CPDCL is expected to utilize the amount to improve the safety conditions in the distribution network. In this regard, the Commission directs that;

to prepare a Safety Improvement Plan for five years relating to distribution network with a budget of Rs.25 Cr. and file the same with the Commission for approval by 31st August 2009. Upon approval of such safety improvement plan by the Commission, CPDCL may commensurate the project. Non compliance of this directive may lead to claw back of the amounts provided with carrying cost.

Revenue Items

224. The wheeling revenue from third parties/open access users as estimated by CPDCL at Rs.6.32 Cr. is considered as revenue for FY2009-10. CPDCL estimated the revenue for FY2009-10 but did not include the same in ARR filings.

225. The non tariff income (NTI) is estimated and taken into calculations at Rs.161.25 Cr. against Rs.68.56 Cr. filed by CPDCL for the Control Period. The amount is estimated based on audited accounts for previous years and likely income in future years of the Control Period.

Revenue Requirement for Distribution Business

226. With these changes/modifications, the revenue requirement for the distribution business is approved at Rs.6822.05 Cr. against Rs.10573.86 Cr. filed by CPDCL for the Control Period. The details of filed and approved ARR for distribution business for each year of the Control Period are given in Table 40.

Table 40:CPDCL: Net ARR for the Control Period

(Rs.Cr.)						
Filed by CPDCL	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	292.90	425.67	552.51	663.54	770.13	2704.74
O&M Expenses	799.55	930.81	1080.06	1248.96	1449.08	5508.46
Depreciation	382.92	501.06	625.35	730.05	851.69	3091.07
Taxes on Income	3.30	3.30	3.30	3.30	3.30	16.50
<i>Less</i>						
O&M Expenses Capitalized	146.09	133.85	123.64	127.84	146.94	678.36
Non-Tariff Income	18.90	16.17	13.54	11.09	8.86	68.56
Net ARR	1313.68	1710.82	2124.04	2506.92	2918.39	10573.85

Approved by APERC	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	184.66	209.08	227.60	243.92	257.10	1122.36
O&M Expenses	715.26	785.56	863.59	950.21	1046.39	4361.01
Depreciation	224.82	301.67	380.94	443.94	514.17	1865.54
Taxes on Income	1.50	1.50	1.50	1.50	1.50	7.50
Special Apprn. for Safety measures	5.00	5.00	5.00	5.00	5.00	25.00
<i>Less</i>						
O&M Expenses Capitalized	70.54	69.23	78.94	81.04	92.05	391.80
Wheeling Revenue	6.32	0.00	0.00	0.00	0.00	6.32
Non-Tariff Income	32.10	32.17	32.25	32.32	32.42	161.25
Net ARR	1022.29	1201.41	1367.44	1531.21	1699.70	6822.05

PART-B: DISTRIBUTION LOSSES

Loss Reduction Trajectory for the Control Period

227. The loss reduction trajectory is specified with aggregation of voltage wise losses approved for three voltages, 33kV, 11kV and LT for the Control Period(Para 195 to 199). The loss reduction trajectory is based on principles enunciated in National Electricity Policy. The aggregate loss reduction trajectory filed by and approved for CPDCL for the Control Period is given in Table 41.

Table 41: CPDCL: Distribution Loss Reduction Trajectory

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Filed by CPDCL	17.97%	17.39%	16.76%	15.95%	14.94%
Approved by APERC	13.04%	12.18%	11.26%	10.83%	10.10%

PART-C: TARIFF FOR THE CONTROL PERIOD

Wheeling Tariff Computation

228. The approved ARR is apportioned among three voltage classes, 33 kV, 11 kV and LT using the capacities filed by CPDCL. With the apportioned ARR and the capacity in kVA, the wheeling charge is computed in Rs./kVA/Month for respective voltage levels for each year of the Control Period.
229. To compensate CPDCL, with regard to distribution losses on account of wheeling, the loss levels approved for CPDCL while fixing the loss reduction trajectory (Para 199) are adopted as wheeling losses.
230. The details of wheeling charges and wheeling losses computed/adopted in accordance with para 228 and 229 for CPDCL are given in Table 42.

Table 42:CPDCL: Wheeling Tariff for the Control Period, FY2009-10 TO 2013-14

A: CHARGES/RATES(Rs. /kVA/Month)							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV	27.12	30.38	32.39	32.66	33.43		
11 kV	185.94	192.55	206.56	207.47	204.79		
LOW TENSION	671.71	634.57	669.17	658.76	649.23		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.07%	8.87%	16.16%	33 kV	4.04%	8.60%	15.00%
11 kV	8.87%	5.00%	12.60%	11 kV	8.60%	4.75%	11.42%
LT	16.16%	12.60%	8.00%	LT	15.00%	11.42%	7.00%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.02%	8.34%	13.84%	33 kV	3.99%	8.07%	13.36%
11 kV	8.34%	4.50%	10.23%	11 kV	8.07%	4.25%	9.76%
LT	13.84%	10.23%	6.00%	LT	13.36%	9.76%	5.75%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.96%	7.80%	12.50%				
11 kV	7.80%	4.00%	8.90%				
LT	12.50%	8.90%	5.10%				

Wheeling Tariff for FY2009-10 to 2013-14

231. The Commission hereby determines the Wheeling Tariff in the licensed area of CPDCL as indicated in Table 42 for this Control Period. The wheeling charges/rates and wheeling losses shall be as indicated in Table 42 for CPDCL for the Control Period FY2009-10 to FY2013-14.

232. The Wheeling Tariff Schedule for CPDCL, indicating the wheeling charges and losses with terms and conditions, is given in Part-B of Annexure-C.

CHAPTER-VII
WHEELING TARIFF DETERMINATION
EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (EPDCL)

Introduction

233. The Commission, after examination of the issues related to determination of wheeling tariff while considering the objections and suggestions received/heard on filings, examined the revenue requirement to fix the wheeling tariff for EPDCL for FY2009-10 to 2013-14 as detailed hereunder.

PART-A: REVENUE REQUIREMENT

Investments

234. EPDCL filed the capital investment expenditure under different heads for each year of the Control Period. In course of examination of these investment filings, it is found that the basis for capital investment plan for distribution network expansion and strengthening is lacking technical study and is more dependent on arithmetic method. Considering the strengthening of existing network, future network requirement and other financial aspects, a sum of Rs.1794.74 Cr. towards capital investment is approved for the Control Period. The approved investment amount is taken into determination of wheeling tariff. The details of approved investments for each year of the Control Period are given in Table 43.

Table 43: EPDCL: Approved Investments during the Control Period

<i>(Rs.Cr.)</i>				
Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	360.00	36.00	4.12	400.12
2010-11	287.50	28.75	3.82	320.07
2011-12	308.60	30.86	3.60	343.06
2012-13	308.30	30.83	4.36	343.49
2013-14	347.60	34.76	5.64	388.00
Total	1612.00	161.20	21.54	1794.74

Figures are rounded

Return on Capital Employed (ROCE)

235. As per the Regulation 4 of 2005, the Licensee is permitted to claim the Return on Capital Employed (RoCE). The amount claimed in this manner is expected to meet the cost of debt and equity capital used to finance the assets and capital used and

useful in the distribution business. The regulatory framework relating to compensating the capital employed in general is;

- a) the sum of the value of the assets and capital used in the distribution business is known as Regulatory Rate Base (RRB),
- b) the Return on Capital (WACC) in percent is worked out based on a) debt-equity ratio, b) cost of debt and c) return on equity, and
- c) the Return on Capital (WACC) in percent is applied on RRB to arrive at the ROCE for each year of the Control Period.

236. The return on capital(WACC) is approved at 11 percent per year while considering the following factors;

- a) the debt equity ratio is kept at 75:25 instead of varying the ratio for each year of the Control Period,
- b) the return on equity is approved at 14 percent since balance 2 percent return is provided in retail supply business, and
- c) the cost of debt is approved at 10 percent based on existing loan profile and likely future interest rates

237. The RRB is approved at Rs.4802.02 Cr. against Rs.7404.35 Cr. filed by EPDCL for the Control Period with the following modifications to the filings;

- a) to the extent possible and identifiable, a portion of fully depreciated assets is removed from RRB as the physical presence of these assets in distribution is unlikely,
- b) the approved investments and capitalization schedule of approved investments for each year of the Control Period are taken in RRB calculation,
- c) the working capital requirement for distribution business is computed based on guidelines provided in Regulation 4 of 2005 with revised O&M expenses for each year of the Control Period. and
- d) the claim of certain amount under O&M stores in the RRB calculations is disallowed as such provision for O&M stores in RRB calculations is not provided in the Regulation 4 of 2005.

238. With the approved RRB and return on capital(WACC), the ROCE is computed and approved at Rs.528.22 Cr. against Rs.905.36 Cr. filed EPDCL. The ROCE provided should meet the cost of debt and return on equity on the amounts used in the distribution business during the Control Period. The details of RRB and ROCE filed and approved for each year of the Control Period are given in Table 44.

Table 44: EPDCL: Regulated Rate Base and Return on Capital Employed

(Rs.Cr.)

Financial Year	Regulate Rate Base (RRB)		Return on Capital Employed(ROCE)	
	Filed by EPDCL	Approved by APERC	Filed by EPDCL	Approved by APERC
1	2	3	4	5
2009-10	1176.61	831.78	132.78	91.50
2010-11	1352.42	878.83	157.54	96.67
2011-12	1498.56	947.17	180.19	104.19
2012-13	1616.34	1019.52	201.51	112.15
2013-14	1760.42	1124.72	233.34	123.72
Total	7404.35	4802.02	905.36	528.22

Figures are rounded

Depreciation

239. The depreciation expense is approved at Rs.873.74 Cr. against Rs.1065.03 Cr. filed by EPDCL with the following modifications to the filings;
- the opening value of assets for each year of the Control Period is arrived at for the purpose of computing the depreciation,
 - the approved investment amounts and capitalization schedule are taken for computing the opening value of assets for each year of the Control Period,
 - to the extent possible and identifiable, certain portion of the value of fully depreciated assets but still appearing in asset registers is removed,
 - the claims of depreciation on assets added during the year have been disallowed, i.e. only the opening value is considered, and,
 - assets funded by persons other than Licensee are removed for the purpose of computing the depreciation as provided in Regulation 4 of 2005.
240. The details of asset base on which depreciation is computed and the depreciation filed and approved for each year of the Control Period are given Table 45.

Table 45: EPDCL: Asset Base and Depreciation for the Control Period

(Rs.Cr.)

Financial Year	Asset Base		Depreciation	
	Filed by EPDCL	Approved by APERC	Filed by EPDCL	Approved by APERC
1	2	3	4	5
2009-10	2511.14	2349.36	157.84	143.16
2010-11	3051.51	2682.15	185.82	154.58
2011-12	3526.98	3021.98	215.01	173.12
2012-13	3945.82	3362.26	238.52	190.43
2013-14	4384.86	3707.18	267.84	212.45
Total	17420.31	15122.93	1065.03	873.74

Figures are rounded

Operation and Maintenance (O&M) Expenses

241. The net O&M expenses for the Control Period are approved at Rs.1987.25 Cr. against Rs.2347.97 Cr. filed by EPDCL with the consideration of the following;
- compared with the actual O&M expenses during the previous years based on annual accounts, the projections are rather high,
 - if the actual O&M expenses of previous years are taken in to account, the projections made based on norms bound to be lower, and
 - the O&M expenses tend to be lower as the approved investment is lower than the proposed investment, for the Control Period.
242. The details of field and approved O&M expenses for each year of the Control Period are given in Table 46.

Table 46: EPDCL: O&M Expenses for the Control Period

(Rs.Cr.)

Financial Year	Filed by EPDCL			Approved by APERC		
	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses
1	2	3	4	5	6	7
2009-10	385.95	49.30	336.65	352.60	36.00	316.60
2010-11	440.51	36.20	404.31	387.35	28.75	358.60
2011-12	502.50	39.10	463.40	425.70	30.86	394.84
2012-13	573.30	39.80	533.50	468.03	30.83	437.20
2013-14	653.51	43.40	610.11	514.78	34.76	480.02
Total	2555.76	207.80	2347.96	2148.45	161.20	1987.25

Figures are rounded

Taxes on Income

243. Tax on income as expense item is approved at Rs.9.89 Cr. as filed without any change. The amount filed is in tune with tax payment history and likely profits during the control period.

Special appropriation for Safety Measures

244. To improve the safety in distribution networks, a sum of Rs.25.00 Cr. for the Control Period at Rs.5.00 Cr. per annum is approved as onetime expense item. EPDCL is expected to utilize the amount to improve the safety conditions in the distribution network. In this regard, the Commission directs EPDCL;

to prepare a Safety Improvement Plan for five years relating to distribution network with a budget of Rs.25 Cr. and file the same with the Commission for approval by 31st August 2009. Upon approval of such safety improvement plan by the Commission, EPDCL may commensurate the project. Non compliance of this directive may lead to claw back of the amounts provided with carrying cost.

Revenue Items

245. The non tariff income (NTI) is estimated and taken in to calculations at Rs.66.91 Cr. for the Control Period. The amount is estimated based on audited accounts for

previous years and likely income in future years. EPDCL did not provide any non-tariff income in the filings.

246. With these changes/modifications in computing the revenue requirement, the revenue requirement for the distribution business is approved at Rs. 3357.20 Cr. against Rs.4353.26 Cr. filed by EPDCL for the Control Period. The approved ARR for distribution business for each year of the Control Period are given in Table 47.

Table 47:EPDCL: Net ARR for the Control Period

(Rs.Cr.)

Filed by EPDCL	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	132.78	157.54	180.19	201.51	233.34	905.36
O&M Expenses	385.95	440.51	502.50	573.30	653.51	2555.76
Depreciation	157.84	185.82	215.01	238.52	267.84	1065.04
Taxes on Income	1.98	1.98	1.98	1.98	1.98	9.89
Special Appn. for Safety measures	5.00	5.00	5.00	5.00	5.00	25.00
<i>Less</i>						
O&M Exp. Capitalized	49.30	36.20	39.10	39.80	43.40	207.80
Non-Tariff Income						0.00
Net ARR	634.24	754.65	865.58	980.51	1118.27	4353.25

Approved by APERC	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	91.50	96.67	104.19	112.15	123.72	528.22
O&M Expenses	352.60	387.35	425.70	468.03	514.78	2148.45
Depreciation	143.16	154.58	173.12	190.43	212.45	873.74
Taxes on Income	1.98	1.98	1.98	1.98	1.98	9.89
Special Aprpn. for Safety measures	5.00	5.00	5.00	5.00	5.00	25.00
<i>Less</i>						
O&M Expenses Capitalized	36.00	28.75	30.86	30.83	34.76	161.20
Non-Tariff Income	13.38	13.38	13.38	13.38	13.38	66.91
Net ARR	544.85	603.44	665.75	733.37	809.79	3357.20

PART-B: DISTRIBUTION LOSSES

Loss Reduction Trajectory for the Control Period

247. The loss reduction trajectory is specified with aggregation of voltage wise losses approved for three voltages, 33kV, 11kV and LT for the Control Period(Para 195 to 199). The loss reduction trajectory is based on principles enunciated in National Electricity Policy. The aggregate loss reduction trajectory filed by and approved for EPDCL for the Control Period is given in Table 48.

Table 48: EPDCL: Distribution Loss Reduction Trajectory

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Filed by EPDCL	11.19%	10.96%	10.74%	10.53%	10.32%
Approved by APERC	11.12%	10.89%	10.74%	10.57%	10.32%

PART-C:TARIFF FOR THE CONTROL PERIOD

Wheeling Tariff Computation

248. The approved ARR is apportioned among three voltage classes, 33 kV, 11 kV and LT using the capacities filed by EPDCL. With the apportioned ARR and the capacity in kVA, the wheeling charge is computed in Rs./kVA/Month for respective voltage levels for each year of the Control Period.
249. To compensate EPDCL, with regard to distribution losses on account of wheeling, the loss levels approved for EPDCL while fixing the loss reduction trajectory (Para 199) are adopted as wheeling losses.
250. The details of wheeling charges and wheeling losses computed/adopted in accordance with para 248 and 249 for EPDCL are given in Table 49.

Table 49:EPDCL: Wheeling Tariff for the Control Period, FY2009-10 TO 2013-14

A: CHARGES/RATES(Rs./kVA/Month)							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV	19.40	19.81	20.56	21.07	21.85		
11 kV	177.21	182.81	188.49	192.89	198.12		
LOW TENSION	581.41	606.96	625.10	641.32	656.89		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.62%	7.79%	12.72%	33 kV	3.56%	7.73%	12.63%
11 kV	7.79%	4.33%	9.45%	11 kV	7.73%	4.32%	9.40%
LT	12.72%	9.45%	5.35%	LT	12.63%	9.40%	5.31%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.51%	7.67%	12.48%	33 kV	3.47%	7.59%	12.33%
11 kV	7.67%	4.31%	9.30%	11 kV	7.59%	4.27%	9.18%
LT	12.48%	9.30%	5.21%	LT	12.33%	9.18%	5.13%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.39%	7.47%	12.10%				
11 kV	7.47%	4.22%	9.02%				
LT	12.10%	9.02%	5.01%				

Wheeling Tariff for FY2009-10 to 2013-14

251. The Commission hereby determines the Wheeling Tariff in the licensed area of EPDCL as indicated in Table 49 for this Control Period. The wheeling charges/rates and wheeling losses shall be as indicated in Table 49 for EPDCL for the Control Period FY2009-10 to FY2013-14.
252. The Wheeling Tariff Schedule for EPDCL, indicating the wheeling charges and losses with terms and conditions, is given in Part-C of Annexure-C.

CHAPTER-VIII
WHEELING TARIFF DETERMINATION
NORTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (NPDCL)

Introduction

253. The Commission, after examination of the issues related to determination of wheeling tariff while considering the objections and suggestions received/heard on filings, examined the revenue requirement to fix the wheeling tariff for NPDCL for FY2009-10 to 2013-14 as detailed hereunder.

PART-A: REVENUE REQUIREMENT

Investments

254. NPDCL filed the capital investment expenditure under different heads for each year of the Control Period. In course of examination of these investment filings, it is found that the basis for capital investment plan for distribution network expansion and strengthening is lacking technical study and is more dependent on arithmetic method. Considering the strengthening of existing network, future network requirement and other financial aspects, a sum of Rs.2067.85 Cr. towards capital investment is approved for the Control Period. The approved investment amount is taken into determination of wheeling tariff. The details of approved investments for each year of the Control Period are given in Table 50.

Table 50: NPDCL: Approved Investments During the Control Period

(Rs.Cr.)

Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	445.80	44.58	36.18	526.56
2010-11	402.90	40.29	37.45	480.64
2011-12	397.70	39.77	36.75	474.22
2012-13	245.80	24.58	28.18	298.56
2013-14	242.00	24.20	21.68	287.88
Total	1734.20	173.42	160.23	2067.85

Figures are rounded

Return on Capital Employed (ROCE)

255. As per the Regulation 4 of 2005, the Licensee is permitted to claim the Return on Capital Employed (ROCE). The amount claimed in this manner is expected to meet the cost of debt and equity capital used to finance the assets and capital used and

useful in the distribution business. The regulatory framework relating to compensating the capital employed in general is;

- a) the sum of the value of the assets and capital used in the distribution business is known as Regulatory Rate Base (RRB),
- b) the Return on Capital (WACC) in percent is worked out based on a) debt-equity ratio, b) cost of debt and c) return on equity, and
- c) the Return on Capital (WACC) in percent is applied on RRB to arrive at the ROCE for each year of the Control Period.

256. The return on capital (WACC) is approved at 11 percent per year while considering the following factors;

- a) the debt equity ratio is kept at 75:25 instead of varying the ratio for each year of the Control Period,
- b) the return on equity is approved at 14 percent since balance 2 percent return is provided in retail supply business, and
- c) the cost of debt is approved at 10 percent based on existing loan profile and likely future interest rates

257. The RRB is approved at Rs. 6442.55 Cr. against Rs. 12286.97 Cr. filed by NPDCL for the Control Period with the following modifications to the filings;

- a) to the extent possible and identifiable, a portion of fully depreciated assets is removed from RRB as the physical presence of these assets in distribution is unlikely,
- b) the approved investments and capitalization schedule of approved investments for each year of the Control Period are taken in RRB calculation,
- c) the working capital requirement for distribution business is computed based on guidelines provided in Regulation 4 of 2005 with revised O&M expenses for each year of the Control Period. and
- d) the claim of certain amount under O&M stores in the RRB calculations is disallowed as such provision for O&M stores in RRB calculations is not provided in the Regulation 4 of 2005.

258. With the approved RRB and return on capital (WACC), the ROCE is computed and approved at Rs.708.68 Cr. against Rs.1630.32 Cr. filed by NPDCL for the Control Period. The ROCE provided should meet the cost of debt and return on equity on the amounts used in the distribution business during the Control Period. The details of RRB and ROCE filed and approved for each year of the Control Period are given in Table 51.

Table 51: NPDCL: Regulated Rate Base and Return on Capital Employed

(Rs.Cr.)

Financial Year	Regulate Rate Base (RRB)		Return on Capital Employed(ROCE)	
	Filed by NPDCL	Approved by APERC	Filed by NPDCL	Approved by APERC
1	2	3	4	5
2009-10	1517.74	1033.67	210.71	113.70
2010-11	2080.57	1190.31	278.41	130.93
2011-12	2599.96	1346.52	337.86	148.12
2012-13	2966.68	1425.39	389.97	156.79
2013-14	3122.02	1446.65	413.36	159.13
Total	12286.97	6442.55	1630.32	708.68

Figures are rounded

Depreciation

259. The depreciation expense is approved at Rs. 1160.77 Cr. against Rs, 1547.94 Cr. filed by NPDCL with the following modifications to the filings;

- the opening value of assets for each year of the Control Period is arrived at for the purpose of computing the depreciation,
- the approved investment amounts and capitalization schedule are taken for computing the opening value of assets for each year of the Control Period,
- to the extent possible and identifiable, certain portion of the value of fully depreciated assets but still appearing in asset registers is removed,
- the claims of depreciation on assets added during the year have been disallowed, i.e. only the opening value is considered, and,
- assets funded by persons other than Licensee are removed for the purpose of computing the depreciation as provided in Regulation 4 of 2005.

260. The details of asset base on which depreciation is computed and the depreciation filed and approved for each year of the Control Period are given Table 52.

Table 52: NPDCL: Asset Base and Depreciation for the Control Period

(Rs.Cr.)

Financial Year	Asset Base		Depreciation	
	Filed by NPDCL	Approved by APERC	Filed by NPDCL	Approved by APERC
1	2	3	4	5
2009-10	2626.09	2398.44	203.68	149.72
2010-11	3405.06	2779.40	260.08	183.80
2011-12	4249.59	3229.66	317.93	232.45
2012-13	5024.21	3705.18	366.66	275.60
2013-14	5663.32	4118.77	399.59	319.20
Total	20968.27	16231.45	1547.94	1160.77

Figures are rounded

Operation and Maintenance (O&M) Expenses

261. The net O&M expenses for the Control Period are approved at Rs.1629.22 Cr. against Rs.1974.14 Cr. filed by NPDCL with the consideration of the following;
- compared with the actual O&M expenses during the previous years based on annual accounts, the projections are rather high,
 - if the actual O&M expenses of previous years are taken in to account, the projections made based on norms bound to be lower, and
 - the O&M expenses tend to be lower as the approved investment is lower than the proposed investment, for the Control Period.
262. The details of filed and approved O&M expenses for each year of the Control Period are given in Table 53.

Table 53: NPDCL: O&M Expenses for the Control Period

(Rs.Cr.)

Financial Year	Filed by NPDCL			Approved by APERC		
	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses
1	2	3	4	5	6	7
2009-10	343.64	77.96	265.68	296.01	44.58	251.43
2010-11	392.01	63.44	328.57	324.92	40.29	284.63
2011-12	449.37	67.49	381.88	357.00	39.77	317.23
2012-13	502.86	32.76	470.10	392.60	24.58	368.02
2013-14	561.70	33.79	527.91	432.11	24.20	407.91
Total	2249.58	275.44	1974.14	1802.64	173.42	1629.22

Figures are rounded

Taxes on Income

263. Tax on income as expense item is approved at Rs.7.00 Cr. against Rs.69.10 Cr. filed by NPDCL for the Control Period. The reduction is based on previous period tax payment history and likely profits during the Control Period.

Special appropriation for Safety Measures

264. To improve the safety in distribution networks, a sum of Rs.25.00 Cr. for the Control Period at Rs.5.00 Cr. per annum is approved as special one time expense item. NPDCL is expected to utilize the amount to improve the safety conditions in the distribution network. In this regard, the Commission directs that;

to prepare a Safety Improvement Plan for five years relating to distribution network with a budget of Rs.25 Cr. and file the same with the Commission for approval by 31st August 2009. Upon approval of such safety improvement plan by the Commission, NPDCL may commensurate the project. Non compliance of this directive may lead to claw back of the amounts provided with carrying cost.

Revenue Items

265. The non tariff income (NTI) is estimated and taken in to calculations at Rs.29.77 Cr. against Rs.213.70 Cr. filed by NPDCL for the Control Period. The amount is estimated based on audited accounts for previous years and likely income in future years of the Control Period.

Revenue Requirement for Distribution Business

266. With these changes/modifications in computing the revenue requirement, the revenue requirement for the distribution business is approved at Rs.3521.12 Cr. against Rs.5075.64 Cr. filed by NPDCL for the Control Period. The details of field and approved ARR for distribution business for each year of the Control Period are given in Table 54.

Table 54:NPDCL: Net ARR for the Control Period

(Rs.Cr.)						
Filed by NPDCL	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	210.71	278.41	337.86	389.97	413.36	1630.32
O&M Expenses	343.64	392.01	449.37	502.86	561.70	2249.58
Depreciation	203.68	260.08	317.93	366.66	399.59	1547.94
Taxes on Income	3.99	9.53	14.08	18.59	22.91	69.10
Other Expenditure	1.42	1.49	1.56	1.64	1.72	7.84
Special Apprn. for Safety measures	30.00	30.00	0.00	0.00	0.00	60.00
<i>Less</i>						
O&M Exp.Capitalized	77.96	63.44	67.49	32.76	33.79	275.44
Non-Tariff Income	33.74	38.99	43.14	47.10	50.73	213.70
Net ARR	681.74	869.09	1010.18	1199.86	1314.76	5075.64

Approved by APERC	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	113.70	130.93	148.12	156.79	159.13	708.68
O&M Expenses	296.01	324.92	357.00	392.60	432.11	1802.64
Depreciation	149.72	183.80	232.45	275.60	319.20	1160.77
Taxes on Income	1.25	1.25	1.50	1.50	1.50	7.00
Other Expenditure	3.90	3.97	4.03	4.11	4.19	20.21
Special Apprn. for Safety measures	5.00	5.00	5.00	5.00	5.00	25.00
<i>Less</i>						
O&M Exp.Capitalized	44.58	40.29	39.77	24.58	24.20	173.42
Non-Tariff Income	5.86	5.91	5.95	6.00	6.05	29.77
Net ARR	519.15	603.67	702.38	805.03	890.89	3521.12

PART-B: DISTRIBUTION LOSSES

Loss Reduction Trajectory for the Control Period

267. The loss reduction trajectory is specified with aggregation of voltage wise losses approved for three voltages, 33kV, 11kV and LT for the Control Period(Para 195 to 199).The loss reduction trajectory is based on principles enunciated in National

Electricity Policy. The aggregate loss reduction trajectory filed by and approved for NPDCL for the Control Period is given in Table 55.

Table 55: NPDCL: Distribution Loss Reduction Trajectory

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Filed by NPDCL	17.18%	16.73%	16.23%	15.65%	15.05%
Approved by APERC	14.71%	13.38%	12.84%	12.55%	12.14%

PART-C:TARIFF FOR THE CONTROL PERIOD

Wheeling Tariff Computation

268. The approved ARR is apportioned among three voltage classes, 33 kV, 11 kV and LT using the capacities filed by NPDCL. With the apportioned ARR and the capacity in kVA, the wheeling charge is computed in Rs./kVA/Month for respective voltage levels for each year of the Control Period.
269. To compensate NPDCL, with regard to distribution losses on account of wheeling, the loss levels approved for NPDCL while fixing the loss reduction trajectory (Para 199) are adopted as wheeling losses.
270. The details of wheeling charges and wheeling losses computed/adopted in accordance with Para 269 and 270 for NPDCL are given in Table 56.

Table 56:NPDCL: Wheeling Tariff for the Control Period, FY2009-10 TO 2013-14

A: CHARGES/RATES(Rs. /kVA/Month)							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV	11.56	12.29	12.73	12.70	12.45		
11 kV	124.08	133.14	141.26	143.73	140.69		
LOW TENSION	324.23	338.19	353.72	357.51	345.92		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.50%	9.28%	15.63%	33 kV	4.25%	8.85%	14.41%
11 kV	9.28%	5.00%	11.65%	11 kV	8.85%	4.80%	10.61%
LT	15.63%	11.65%	7.00%	LT	14.41%	10.61%	6.10%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.10%	8.51%	13.91%	33 kV	4.00%	8.32%	13.59%
11 kV	8.51%	4.60%	10.23%	11 kV	8.32%	4.50%	9.99%
LT	13.91%	10.23%	5.90%	LT	13.59%	9.99%	5.75%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.90%	8.08%	13.14%				
11 kV	8.08%	4.35%	9.61%				
LT	13.14%	9.61%	5.50%				

Wheeling Tariff for FY2009-10 to 2013-14

271. The Commission hereby determines the Wheeling Tariff in the licensed area of NPDCL as indicated in Table 56 for this Control Period. The wheeling charges/rates and wheeling losses shall be as indicated in Table 56 for NPDCL for the Control Period FY2009-10 to FY2013-14.
272. The Wheeling Tariff Schedule for NPDCL, indicating the wheeling charges and losses with terms and conditions, is given in Part-D of Annexure-C.

CHAPTER-IX
WHEELING TARIFF DETERMINATION
SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (SPDCL)

Introduction

273. The Commission, after examination of the issues related to determination of wheeling tariff while considering the objections and suggestions received/heard on filings, examined the revenue requirement to fix the wheeling tariff for SPDCL for FY2009-10 to 2013-14 as detailed hereunder.

PART-A: REVENUE REQUIREMENT

Investments

274. SPDCL filed the capital investment expenditure under different heads for each year of the Control Period. In course of examination of these investment filings, it is found that the basis for capital investment plan for distribution network expansion and strengthening is lacking technical study and is more dependent on arithmetic method. Considering the strengthening of existing network, future network requirement and other financial aspects, a sum of Rs.2953.14 Cr. towards capital investment is approved for the Control Period. The approved investment amount is taken into determination of wheeling tariff. The details of approved investments for each year of the Control Period are given in Table 57.

Table 57: SPDCL: Approved Investments during the Control Period

<i>(Rs.Cr.)</i>				
Financial Year	Investment	O&M Expenses Capitalized	Interest During Construction	Total
2009-10	611.10	60.50	45.02	716.62
2010-11	525.60	52.03	50.37	628.01
2011-12	576.20	57.04	47.82	681.07
2012-13	371.00	36.73	45.74	453.47
2013-14	400.80	39.68	33.50	473.98
Total	2484.70	245.99	222.45	2953.14

Figures are rounded

Return on Capital Employed (ROCE)

275. As per the Regulation 4 of 2005, the Licensee is permitted to claim the Return on Capital Employed (ROCE). The amount claimed in this manner is expected to meet the cost of debt and equity capital used to finance the assets and capital used and useful in the distribution business. The regulatory framework relating to compensating the capital employed in general is;

- a) the sum of the value of the assets and capital used in the distribution business is known as Regulatory Rate Base (RRB),
 - b) the Return on Capital (WACC) in percent is worked out based on a) debt-equity ratio, b)cost of debt and c)return on equity, and
 - c) the Return on Capital(WACC) in percent is applied on RRB to arrive at the ROCE for each year of the Control Period.
276. The return on capital(WACC) is approved at 11 percent per year while considering the following factors;
- a) the debt equity ratio is kept at 75:25 instead of varying the ratio for each year of the Control Period,
 - b) the return on equity is approved at 14 percent since balance 2 percent return is provided in retail supply business, and
 - c) the cost of debt is approved at 10 percent based on existing loan profile and likely future interest rates
277. The RRB is approved at Rs.13303.19 Cr. against Rs.16248.05 Cr. filed by SPDCL for the Control Period with the following modifications to the filings;
- a) to the extent possible and identifiable, a portion of fully depreciated assets is removed from RRB as the physical presence of these assets in distribution is unlikely,
 - b) the approved investments and capitalization schedule of approved investments for each year of the Control Period are taken in RRB calculation,
 - c) the working capital requirement for distribution business is computed based on guidelines provided in Regulation 4 of 2005 with revised O&M expenses for each year of the Control Period. and
 - d) the claim of certain amount under O&M stores in the RRB calculations is disallowed as such provision for O&M stores in RRB calculations is not provided in the Regulation 4 of 2005.
278. With the approved RRB and return on capital(WACC), the ROCE is computed and approved at Rs.1463.35 Cr. against Rs.1970.34 Cr. filed by SPDCL for the Control Period. The ROCE provided should meet the cost of debt and return on equity on the amounts used in the distribution business during the Control Period. The details of RRB and ROCE filed and approved for each year of the Control Period are given in Table 58.

Table 58: SPDCL: Regulated Rate Base and Return on Capital Employed

(Rs.Cr.)

Financial Year	Regulate Rate Base (RRB)		Return on Capital Employed(ROCE)	
	Filed by SPDCL	Approved by APERC	Filed by SPDCL	Approved by APERC
1	2	3	4	5
2009-10	2321.84	2109.54	272.82	232.05
2010-11	2878.42	2452.95	343.62	269.82
2011-12	3396.89	2721.94	411.88	299.41
2012-13	3758.39	2942.81	462.76	323.71
2013-14	3892.51	3075.96	479.27	338.36
Total	16248.05	13303.19	1970.34	1463.35

Figures are rounded

Depreciation

279. The depreciation expense is approved at Rs.1357.52 Cr. against Rs.2246.93 Cr. filed by SPDCL with the following modifications to the filings;
- the opening value of assets for each year of the Control Period is arrived at for the purpose of computing the depreciation,
 - the approved investment amounts and capitalization schedule are taken for computing the opening value of assets for each year of the Control Period,
 - to the extent possible and identifiable, certain portion of the value of fully depreciated assets but still appearing in asset registers is removed,
 - the claims of depreciation on assets added during the year have been disallowed, i.e. only the opening value is considered, and,
 - assets funded by persons other than Licensee are removed for the purpose of computing the depreciation as provided in Regulation 4 of 2005.
280. The details of asset base on which depreciation is computed and the depreciation filed and approved for each year of the Control Period are given Table 59.

Table 59: SPDCL: Asset Base and Depreciation for the Control Period

(Rs.Cr.)

Financial Year	Asset Base		Depreciation	
	Filed by SPDCL	Approved by APERC	Filed by SPDCL	Approved by APERC
1	2	3	4	5
2009-10	4254.40	4163.11	304.79	181.52
2010-11	5175.07	4911.89	380.57	230.87
2011-12	6219.93	5597.52	459.10	267.19
2012-13	7216.91	6251.54	531.45	334.24
2013-14	8100.54	6884.92	571.02	343.69
Total	30966.85	27808.98	2246.93	1357.52

Figures are rounded

Operation and Maintenance (O&M) Expenses

281. The net O&M expenses for the Control Period are approved at Rs.2573.25 Cr. against Rs.3331.75 Cr. filed by SPDCL with the consideration of the following;

- a) compared with the actual O&M expenses during the previous years based on annual accounts, the projections are rather high,
- b) if the actual O&M expenses of previous years are taken in to account, the projections made based on norms bound to be lower, and
- c) the O&M expenses tend to be lower as the approved investment is lower than the proposed investment, for the Control Period.

282. The details of filed and approved O&M expenses for each year of the Control Period are given in Table 60.

Table 60: SPDCL: O&M Expenses for the Control Period

(Rs.Cr.)

Financial Year	Filed by SPDCL			Approved by APERC		
	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses	Gross O&M Expenses	O&M Exp. Capitalized	Net O&M Expenses
1	2	3	4	5	6	7
2009-10	555.22	93.55	461.67	471.74	60.50	411.24
2010-11	639.60	80.72	558.88	513.57	52.03	461.54
2011-12	737.73	88.30	649.43	559.42	57.04	502.38
2012-13	832.09	52.50	779.59	609.69	36.73	572.96
2013-14	938.92	56.74	882.18	664.80	39.68	625.13
Total	3703.56	371.81	3331.75	2819.23	245.99	2573.25

Figures are rounded

Taxes on Income

283. Tax on income as expense item is approved at Rs.6.44 Cr. against Rs.17.36 Cr. filed by SPDCL for the Control Period. The reduction is based on previous period tax payment history and likely profits during the Control Period.

Special appropriation for Safety Measures

284. To improve the safety in distribution networks, a sum of Rs.25.00 Cr. for the Control Period at Rs.5.00 Cr. per annum is approved as one time expense item. SPDCL is expected to utilize the amount to improve the safety conditions in the distribution network. In this regard, the Commission directs that;

to prepare a Safety Improvement Plan for five years relating to distribution network with a budget of Rs.25 Cr. and file the same with the Commission for approval by 31st August 2009. Upon approval of such safety improvement plan by the Commission, SPDCL may commensurate the project. Non compliance of this directive may lead to claw back of the amounts provided with carrying cost.

Revenue Items

285. The wheeling revenue from third parties/open access users as estimated by SPDCL at Rs.1.79 Cr. is considered as revenue for FY2009-10. SPDCL estimated the revenue for FY2009-10 but did not include the same in ARR filings.

286. The non tariff income (NTI) is estimated and taken in to calculations at Rs.423.54 Cr. against Rs.438.86 Cr. filed by SPDCL for the Control Period. The amount is estimated based on audited accounts for previous years and likely income in future years of the Control Period.

Revenue Requirement for Distribution Business

287. With these changes/modifications in computing the revenue requirement, the revenue requirement for the distribution business is approved at Rs.5241.85 Cr. against Rs.7548.60 Cr. filed by SPDCL for the Control Period. The details of approved ARR for distribution business for each year of the Control Period are given in Table 61.

Table 61:SPDCL: Net ARR for the Control Period

(Rs.Cr.)

Filed by NPDCL	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	272.82	343.61	411.88	462.75	479.26	1970.32
O&M Expenses	555.22	639.60	737.73	832.09	938.92	3703.56
Depreciation	304.79	380.57	459.10	531.45	571.02	2246.93
Taxes on Income	5.12	4.61	4.09	2.03	1.52	17.36
Other Expenditure	70.56	75.50	80.78	86.44	92.49	405.77
<i>Less</i>						
O&M Expenses Capitalized	93.55	80.72	88.30	52.50	56.74	371.80
Non-Tariff Income	76.65	80.48	84.51	88.73	93.17	423.54
Net ARR	1038.31	1282.68	1520.78	1773.53	1933.30	7548.60

Approved by APERC	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Return on Capital	232.05	269.82	299.41	323.71	338.36	1463.35
O&M Expenses	471.74	513.57	559.42	609.69	664.80	2819.23
Depreciation	181.52	230.87	267.19	334.24	343.69	1357.52
Taxes on Income	1.15	1.15	1.25	1.37	1.52	6.44
Other Expenditure	47.67	49.46	51.32	53.25	55.25	256.94
Special Apprn. for Safety measures	5.00	5.00	5.00	5.00	5.00	25.00
<i>Less</i>						
Revenue from Wheeling	1.79	0.00	0.00	0.00	0.00	1.79
O&M Expenses Capitalized	60.50	52.03	57.04	36.73	39.68	245.99
Non-Tariff Income	83.34	82.34	86.56	90.98	95.64	438.86
Net ARR	793.51	935.51	1040.00	1199.54	1273.30	5241.85

PART-B: DISTRIBUTION LOSSES

Loss Reduction Trajectory for the Control Period

288. The loss reduction trajectory is specified with aggregation of voltage wise losses approved for three voltages, 33kV, 11kV and LT for the Control Period. The loss reduction trajectory is based on principles enunciated in National Electricity

Policy. The aggregate loss reduction trajectory filed by and approved for SPDCL for the Control Period is given in Table 62.

Table 62: SPDCL: Distribution Loss Reduction Trajectory

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Filed by SPDCL	14.64%	14.35%	14.06%	13.78%	13.50%
Approved by APERC	12.50%	11.75%	11.25%	10.89%	10.64%

PART-C:TARIFF FOR THE CONTROL PERIOD

Wheeling Tariff Computation

289. The approved ARR is apportioned among three voltage classes, 33 kV, 11 kV and LT using the capacities filed by SPDCL. With the apportioned ARR and the capacity in kVA, the wheeling charge is computed in Rs./kVA/Month for respective voltage levels for each year of the Control Period.
290. To compensate SPDCL, with regard to distribution losses on account of wheeling, the loss levels approved for SPDCL while fixing the loss reduction trajectory (Para 199) are adopted as wheeling losses.
291. The details of wheeling charges and wheeling losses computed/adopted in accordance with Para 289 and 290 for SPDCL are given in Table 63.

Table 63:SPDCL: Wheeling Tariff for the Control Period, FY2009-10 TO 2013-14

A: CHARGES/RATES(Rs./kVA/Month)							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV	25.61	28.21	28.49	29.60	27.38		
11 kV	169.76	183.03	184.48	191.22	180.53		
LOW TENSION	364.98	380.81	375.27	384.88	363.66		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.00%	8.65%	14.13%	33 kV	3.75%	8.18%	13.32%
11 kV	8.65%	4.84%	10.55%	11 kV	8.18%	4.60%	9.94%
LT	14.13%	10.55%	6.00%	LT	13.32%	9.94%	5.60%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.60%	7.84%	12.82%	33 kV	3.50%	7.65%	12.45%
11 kV	7.84%	4.40%	9.56%	11 kV	7.65%	4.30%	9.28%
LT	12.82%	9.56%	5.40%	LT	12.45%	9.28%	5.20%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.40%	7.51%	12.22%				
11 kV	7.51%	4.25%	9.13%				
LT	12.22%	9.13%	5.10%				

292. The Commission hereby determines the Wheeling Tariff in the licensed area of SPDCL as indicated in Table 63 for this Control Period. The wheeling charges/rates and wheeling losses shall be as indicated in Table 63 for SPDCL for the Control Period FY2009-10 to FY2013-14.
293. The Wheeling Tariff Schedule for SPDCL, indicating the wheeling charges and losses with terms and conditions, is given in Part-E of Annexure-C.

CHAPTER-X ISSUES RELATED TO RETAIL SUPPLY TARIFF DETERMINATION

General

294. The framework for determination of revenue requirement for retail supply business and retail supply tariff is notified in Regulation 4 of 2005. As per this framework, the Licensees are eligible to recover the approved Aggregate Revenue Requirement (ARR), i.e. the revenue required to meet the retail supply cost normally for a year, through retail supply tariff. The four distribution Licensees, CPDCL, EPDCL, NPDCL and SPDCL, filed the aggregate revenue requirement(ARR) for retail supply business and proposed the retail supply tariff to different consumer categories for FY2009-10 as briefed in Chapter II.

Analysis of Issues

295. In course of retail supply tariff determination, some important issues have been analyzed with regard to;
- a) Sales to Consumers,
 - b) Power Purchase Requirement,
 - c) Power Purchase Cost,
 - d) Select ARR Items,
 - e) Select Revenue Items, and,
 - f) Tariff Modifications.
296. Some of these issues which have a direct bearing on approval of revenue requirement and determination of retail supply tariff for FY2009-10 are briefly explained hereunder.

PART-A: SALES AND POWER PURCHASE REQUIREMENT

Sales Volume to LT-V: Agriculture

297. The Licensees estimated the sales to LT V:Agricultural consumers for FY2009-10 with an increase in the range of 9 to 36 percent over the approved sales volumes for FY2008-09. In view of uncertainty with regard to estimated sale of energy to LT Agricultural consumers (as there are no meters to measure consumption) and the absence of robust measurement mechanism, it is very difficult to agree for such high volume of sales for FY2009-10. However, Licensees are releasing new services every year and in this context, the sales volumes for each Licensee are approved for FY2009-10 with 5 percent increase over the volume of sales approved for FY2008-09. The details are given in Table 64.

Table 64: LT Agricultural Sales

					MU
Item	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
Tariff Order 2008-09	5938	1260	2909	3291	13398
Sales Filed for FY2009-10	7044	1420	3959	3592	16015
<i>(Increase over Approved Volumes in Tariff Order 2008=09)</i>	18.63%	12.72%	36.10%	9.13%	19.53%
Approved Sales for FY2009-10	6235	1323	3055	3456	14068
Figures are rounded					

Sales Volumes to HT-IV: Agriculture

298. It is noted that the Licensees projected higher volumes of sales to HT-IV: agriculture compared with the approved volumes for FY2008-09 and actual consumption estimates made for FY2008-09. Further, the actual sales in FY2008-09 is likely to be less than the sales approved for FY2008-09 as anticipated lift irrigation schemes did not come up for operation during FY2008-09. The scenario observed in FY2008-09 is likely to continue in the next year also. In these circumstances, the sales volumes are approved for FY2009-10 at projected actuals for FY2008-09 for CPDCL, EPDCL and SPDCL. For NPDCL, the sales volume is approved for FY2009-10 at level approved for FY2008-09. The details are given in Table 65.

Table 65: HT Agricultural Sales

					MU
Item	CPDCL	EPDCL	NPDCL	SPDCL	TOTAL
Tariff Order 2008-09	839	201	477	228	1745
Projected Actuals for FY2008-09	483	27	529	37	1076
Sales Proposed for FY2009-10	2211	228	1053	135	3627
Sales Approved for FY2009-10	483	27	477	37	1025
Figures are rounded					

Power Purchase requirement

299. The power purchase requirements for each Licensee are computed by grossing up the approved sales at a particular voltage with the percentages of losses applicable at that voltage level to arrive at the input for the next higher voltage level. On the power purchase volumes from CGS (including NTPC simhadri though it is directly connected to APGRID), additional 4.17 percent has been considered in computing the power purchase requirement. The sales and power purchase requirement filed and approved are given in Table 66. The details of sales are given in Annexure H(i) to H(v).

Table 66: Sales and Power Purchase Requirement for FY2009-10.

(MU)

DISCOM	Filings by DISCOMs		Approved by APERC	
	Sales	Purchase	Sales	Purchase
CPDCL	28959	35938	26421	31564
EPDCL	9740	11247	9442	10945
NPDCL	9797	12026	8317	10028
SPDCL	13107	15934	12873	15562
Total	61603	75146	57053	68100

PART-B: POWER PURCHASE COST

Availability

300. After examination of the station wise energy availability from different sources for FY2009-10, the total energy availability is considered at 74481 MU against 75146 MU filed by Licensees for FY2009-10. 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 Table 67. The details of energy availability by generating station are given in Annexure E (1) to E (2).

Table 67: Availability by Source for FY 2009-10

(MU)

Source of Energy	Filings by DISCOMs	Approved by APERC
APGENCO		
a) Thermal stations	25293.86	25006.56
b) Hydel stations	8968.70	8968.70
CGS-SR	14023.43	14023.43
NTPC-Simhadri	7406.00	7406.00
APGPCL	333.57	333.57
IPPs	15867.11	15867.41
OTHERS		
a) Non-Conventional	2764.84	2764.84
b) Mini Power plants	110.60	110.60
c) Market	377.58	
TOTAL	75145.69	74481.11

APGENCO-Fixed Cost

301. Pending determination of generation tariff for APGENCO's power stations for FY2009-10, the fixed cost is determined based on information provided by APGENCO in its application for determination of generation tariff in accordance with the Regulation 1 of 2008. The fixed cost for APGENCO is approved at Rs.3392.64 Cr.(including Rs.392.40 Cr.fixed cost for SSLBPH) against Rs.3313.36 Cr. (consisting of Rs.3112.12 Cr.fixed costs plus Rs.201.24 Cr. variable cost in lieu of fixed cost for SSLBPH) filed by Licensees for FY2009-10. 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 fixed cost approved are given in Annexure-G.

Central Despatch and Power Purchase Cost for FY2009-10

302. The monthly availability of energy from different power stations along with variable cost as filed by the Licensees was used for monthly merit order dispatch. The details are given in Annexure-E(3). In the merit order despatch, the monthly energy availability from each generating station is stacked up by 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 68* and the power purchase cost estimated and approved for tariff calculations are given in *Table 69*. Further details are given in Annexure G to G(V).

Table 68: Filings: Power Purchase Costs for FY 2009-10- Total

Source	Power purchase	Fixed costs	Variable costs	Tax, incentives & Others	Total cost	Average cost
	(MU)	(Rs.Cr)	(Rs.Cr)	(Rs.Cr)	(Rs.Cr)	(Rs/kWh)
APGenco	34262.56	3112.12	3833.84	61.70	7007.65	2.05
Thermal	25293.86	3112.12	3632.59	61.70	6806.40	2.69
Hydel	8968.69	0.00	201.25	0.00	201.25	0.22
CGS-SR	14023.43	865.40	1636.76	161.73	2663.89	1.90
CGS-ER	0.00	0.00	0.00	0.00	0.00	0.00
NTPC-Simhadri	7406.00	462.78	852.28	23.09	1338.15	1.81
APGPCL-I&II	333.57	5.07	31.13	0.00	36.20	1.09
IPPs	15867.11	1472.97	2426.43	59.89	3959.29	2.50
NCE & Others	2875.44	41.40	865.70	0.70	907.80	3.16
Other short term sources	2358.94	0.00	779.39	0.00	779.39	3.30
Purchase from Others	758.64	0.00	182.76	0.00	182.76	2.41
Sale to Others	-2740.01	0.00	-660.13	0.00	-660.13	2.41
Grand Total	75145.68	5959.73	9948.16	307.11	16215.00	2.16

Table 69:APERC: Power Purchase Cost for FY 2009-10 - Total

Source	Power Purchase (MU)	Fixed Cost (Rs. Cr.)	Variable Cost (Rs. Cr.)	Incentive (Rs. Cr.)	Income Tax And Others (Rs. Cr.)	Total Cost (Rs. Cr.)	Avg. Cost (Rs./Unit)
APGENCO	33523.33	3392.64	3521.38	29.86	31.82	6975.70	2.08
Thermal	24554.63	2484.99	3521.38	29.86	31.82	6068.04	2.47
Hydel	8968.70	907.65	0.00	0.00	0.00	907.65	1.01
CGS	14023.43	873.05	1636.75	36.84	43.10	2589.74	1.85
NTPC- Simhadri	7406.00	462.78	852.28	23.09	1.14	1339.29	1.81
APGPCL	333.57	5.04	31.14	0.00	0.00	36.18	1.08
IPPs	9937.96	1451.47	1371.04	37.82	22.07	2882.41	2.90
OTHERS	2875.44	41.46	865.52	0.00	0.70	907.69	3.16
TOTAL	68099.73	6226.44	8278.11	127.61	98.83	14731.00	2.16

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

303. Since almost all generating stations are shared by four Licensees and the generating stations are 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.0.91/kWh fixed cost and Rs.1.78/kWh variable cost. The fixed cost adopted is the average fixed cost of generating stations for FY2009-10 and the variable cost adopted is the variable cost of four new gas based IPPs as projected by Licensees. 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 70.

Table 70: Cost Adjustment for D-D Energy Transfer for FY2009-10

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	30730.56	31564.37	(833.81)	6584.92	6809.57
EPDCL	10908.85	10945.23	(36.39)	2390.84	2400.65
NPDCL	10781.17	10027.75	753.42	2319.77	2116.77
SPDCL	15679.15	15562.37	116.78	3435.64	3404.17
Total	68099.73	68099.73	0.00	14731.16	14731.16

Non-Conventional Energy(NCE) Sources-Cost Adjustment

304. The Licensees have projected purchase of 2764.84 MU from NCE sources and the details are given in *Table 71*. Together with 24.66 MU pertaining to mini Hydel units of AP Genco, the total projected purchase from NCE sources comes to 2789.50 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 4.10 percent. As per the filings, the NCE purchase ratio is at 4.54 percent, 4.33 percent, 7.45 percent and 2.22 percent for EPDCL, NPDCL, SPDCL and CPDCL respectively as against required obligation of 5.00 percent.

Table 71: Non-Conventional Energy (NCE) sources: Details for FY2009-10

Station	Energy (MU)	Other cost for FY 2009-10 (Rs. Cr.)	Variable charges (Rs./kWh)
NCE - Biomass	1,229.22	388.43	3.16
NCE - Bagasse	804.99	235.06	2.92
NCE - Municipal Waste to Energy	71.11	27.00	3.80
NCE - Industrial Waste to Energy	174.64	54.54	3.12
NCE - Wind Power	309.52	103.85	3.36
NCE - Mini Hydel	155.13	39.77	2.56
NCE - NCL Energy Ltd.	20.24	3.61	1.78
Total	2764.84	852.26	3.08

305. 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 disadvantaged 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 DISCOMs equally, i.e. each DISCOM will have 4.10 percent purchase from NCE sources.
306. Each Licensee bears the cost of 4.10 percent of its total purchase requirement from NCE sources at the weighted average cost of purchase, i.e. Rs.3.05524/kWh. The additional power purchase cost is worked out for NCE deficit Licensees on the deficit energy at Rs.0.36093/kWh(the difference between NCE purchase rate of Rs.3.05524/kWh and D-to-D energy transfer rate of Rs.2.69431/kWh) and included

this amount in power purchase cost. The amount equal to additional power purchase cost for deficit NCE is reduced from the total power purchase cost of NCE surplus Licensees for FY2009-10. The total power purchase cost for each Licensee has been computed after this adjustment for FY2009-10 and details are given in Table 72.

Table 72: Power Purchase Cost for FY2009-10

DISCOM	Allocation from NCE sources (MU)	NCE purchase required (MU)	Surplus / (Deficit) (MU)	Power Purchase Cost Rs.Cr.	
				before adjustment	After adjustment
CPDCL	699.61	1292.94	(593.33)	6809.57	6830.99
EPDCL	496.71	448.34	48.37	2400.65	2398.90
NPDCL	433.99	410.76	23.24	2116.77	2115.94
SPDCL	1159.19	637.47	521.72	3404.17	3385.34
Total	2789.50	2789.50	0.00	14731.16	14731.16

PART-C: TARIFF CHANGES

Tariff Rationalization

307. Tariffs are getting rationalized in the State since last one decade through alignment of the tariffs with the cost of service, i.e. through reducing the tariff for subsidizing consumer categories. Leaving aside the absolute difference between the cost of service and tariff as the cost of service is sensitive to assumptions employed, the endeavor is to reduce the tariff for different subsidizing consumer classes. In continuation of this practice and also to achieve the objective contained in section 42 of the Electricity Act, 2003 that stipulates the reduction of cross subsidies, the energy tariff is reduced by Rs.0.05/unit for HT I: Industrial and HT V: Railway Traction for FY2009-10. The details are given in Table 73.

Table 73: Retail Supply Tariffs Modified as part of Tariff Rationalization

Consumer Category	Current Energy Tariff	Energy Tariff for FY2009-10
	Paise/kWh	Paise/kWh
HT-I: Industry		
132kV and above	275	270
33Kv	300	295
11kV	325	320
HT-I(b); Ferro Alloy Units	245	240
HT-V: Railway Traction	400	395

Proposal to Delete HT-IV(B) Agriculture Category

308. Some Licensees proposed to delete the consumer category HT IV(B): Agriculture for which the energy charge as per the existing tariff orders is zero. The Licensees forwarded the view that Government Lift Irrigation schemes at present are classified under HT Category IV(A) with energy charge at Rs.2.36/unit. When the Government transfers the management of lift irrigation schemes to the societies they tend to fall under HT Category IV(B) with Nil energy charge. The Licensees expressed the concern that their finances are fixed in advance based on projections made by them for a year for HT-IV(B):Government Lift Irrigation Schemes with energy tariff at Rs.2.36/kWh and HT-IV(B):Agriculture with nil energy charges. Any change of categorization from HT-IV(A) to HT-IV(B) will result in financial loss to Licensees due to increase in sales under HT-IV(B):Agricultural category with nil energy tariff.
309. The Licensees should be able to project the sales to different categories of consumers for the ensuing year, i.e.FY2009-10 with reasonable accuracy. Further, the issued is connected with the GoAP policy on agriculture. The Licensees' proposal to delete this category is not backed up with enough reasoning and details. Accordingly, the proposal to delete HT-IV(B):Agriculture category by some Licensees is not approved.

Rural Horticulture Nurseries

310. Some DISCOMs requested for inclusion of Rural Horticulture Nurseries into LT V(A) agriculture category. The Discoms stated that the GoAP had advised them to make such a request to the APERC and had indicated willingness to provide additional subsidy to this category.
311. In the context of scheduled supply on rural agricultural feeders and similarity of operations in both agriculture and the rural horticulture nurseries, the energy consumption profile of rural horticulture nurseries will not be significantly different from agricultural activities. In this background, it is reasonable to classify the rural horticulture nurseries into LT Agriculture and charge these consumers on par with Corporate Agriculture and IT Assesses for whom the energy charge is at Rs.1.00/kWh. Accordingly, the rural horticulture nurseries are included in LT-V(A): Agriculture with energy charge at Rs.1.00/unit with other applicable terms and conditions.

Salt Farming Units

312. Some DISCOMs requested for inclusion of salt farming units into LT V(A) agriculture category. The Discoms stated that the GoAP had advised them to make such a request to the APERC and had indicated willingness to provide additional subsidy to this category.
313. Like rural horticulture nurseries, the power supply position to salt manufacturing units is also scheduled as these are likely to be connected to rural agricultural feeders. The consumption profile of the salt manufacturing units will not be significantly different from that of agricultural activity as both activities use the electricity to pump water for the end use based on scheduled supply by Licensees. It is reasonable to classify the rural horticulture nurseries into LT Agriculture and charge these consumers on par with Corporate Agriculture and IT Assesses for whom the energy charge is at Rs.1.00/kWh. Accordingly, the salt farming units with connected load up to 15 HP are included in LT-V(A): Agriculture with energy charge at Rs.1.00/unit with other applicable terms and conditions.

Cotton Seed Oil Mills as Seasonal Industry

314. The Government of Andhra Pradesh, based on some representations from consumers, recommended that the Cotton Seed Oil Mills may be classified as seasonal industry. All four Licensees have proposed that this industry may be classified as seasonal industry in view of limited period of operation during the year.
315. At present, the cotton ginning mills that separate the seeds from raw cotton is classified as seasonal industry. However, the mills that use these seeds to extract the oil are not classified as seasonal industry despite the fact that such raw material is not available throughout the year. The consumption profile of select consumers as submitted by the Licensees along with their recommendation indicates that the pattern of the consumption is seasonal. Often both cotton ginning and seed oil mills are in the same compound where the cotton is the input for ginning mills and its output of cotton seeds is the input for cotton seed oil mills. Given this background, it is decided to classify the cotton oil seed mills as seasonal industry with applicable terms and conditions. This provision will be applicable only to those units exclusively engaged in production of primary cotton seed oil.

Religious Places

316. Some consumers have made repeated requests in writing and during public hearings since last few years for lower tariff for small religious places such as temples, churches, mosques, gurudwaras, etc.
317. At present, these religious places are categorized under LT VII: General purpose tariff with the energy charge at Rs.4.00/kWh with minimum charges of Rs.50/month for single phase and Rs.150/month for three phase connections. The following issues have come up with regard to this request;
- a) The consumption by many small religious places is very low normally below 200 kWh/month and the applicable tariff is rather high in view of limited income available with these places.
 - b) The enforcement of metering, billing and collection (MBC) is not satisfactory in view of the very specific nature of these services where it is difficult to find the responsible person for the religious places.
 - c) It is also common knowledge that many small religious places do not take regular connections and resort to unauthorized use of electricity.
 - d) Often the services disconnected on account of non payment of bills, remain without supply. The disconnected services very often are found to be resorting to unauthorized use of electricity instead of applying for reconnection. A lower tariff is likely to discourage such malpractices.
318. Given the background, it is better to offer a lower tariff to improve the governance that should lead to reduction in aggregate technical and commercial (ATC) losses in the distribution. Accordingly, a new sub category as LT-VII(b): Religious Places (with connected load up to 1 kW) with separate tariff has been introduced. The details of this new category are given in Table 74.

Table 74: LT VII(b) Tariff for Religious Places with Connected Load up to 1 kW.

Consumption in kWh(units)/Month	Energy Charge
First 200	Rs.2.00/kWh
Above 200	Rs.4.00/kWh
The condition of minimum charges applicable for LT VII: General is not applicable for this consumer category, i.e. with connected load upto 1 kW.	

Poultry Farms

319. Some of the consumers who run the poultry farms have brought the issue of tariff classification followed by the Licensees that some of these units are being billed under LT II: Non-Domestic despite the orders that these units are to be billed under LT IV: cottage industries if the number of birds is upto 1000 and LT III: industrial if

number of birds exceeds 1000. Further, the consumers stated that the tariff is very high compared with tariff in other states and requested for a favorable tariff. As per the existing tariff orders, the poultry farms shall be billed under LT IV: cottage industries tariff or LT III(A): Industry Normal tariff based on number of birds. It is clarified that;

- a) No certificate by any external agency is required for tariff classification based on number of birds. The Licensees are expected to classify the consumers based on their own procedure evolved for this purpose.
- b) No industrial activity certificate from any external agency shall be insisted upon in case the strength of birds is more than 1000 to apply the LT III: Industrial Normal tariff.

PART-D: OTHER ARR AND REVENUE ITEMS

Interest Income on Consumer Security Deposit

320. The Licensees did not recognize the income on consumer security deposits and included the same in the revenue filed for FY2009-10. Some Licensees requested that the income from security deposits not to be included as income in tariff calculations as this income may compensate other costs they incur like working capital requirements.
321. As per the existing regulations, the Licensees are eligible to recover interest cost on security deposits to be paid to the consumers, as expenses through retail supply tariff. The amounts collected in this manner are being deployed into their businesses in one form or the other and earn income within the current regulatory framework. Accordingly, the income is computed on security deposits held with Licensees for FY2009-10 and included as revenue in tariff determination.

Supply Margin in Retail Supply Business

322. As per Regulation 4 of 2005, the return on capital employed is provided for distribution business in view of combined operations of distribution and retail businesses by single entity, the Licensee for distribution and retail supply.
323. To provide return in retail supply business, a two percent return on equity portion of approved regulated rate base (RRB) is computed for each Licensee and included in the ARR for FY2009-10. With this inclusion of 2 percent return on equity, the Licensees are able to get a total of 16 percent return on equity portion of approved RRB for FY2009-10.

CHAPTER-XI
RETAIL SUPPLY TARIFF DETERMINATION
CENTRAL POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (CPDCL)

Introduction

324. The Commission, after examination of the issues related to determination of retail supply tariff including the objections and suggestions received/heard on filings, has examined the revenue requirement, revenue and revenue gap for determining the retail supply tariff for CPDCL for FY2009-10, as detailed hereunder.

PART-A:REVENUE REQUIREMENT

Revision in Sales Volumes

325. The sales volume to different consumer categories for FY2009-10 is approved at 26421 MU against 28959 MU filed by CPDCL while incorporating the following two changes;
- a) the volume of sales to LT Agriculture is fixed at 6235 MU against 7044 MU filed by CPDCL for FY2009-10 (Para 297), and
 - b) the volume of sales to HT Lift Irrigation Schemes is fixed at 483 MU against 2211 MU filed by CPDCL for FY2009-10 (Para 298).
326. The sales volumes for the remaining consumer categories are approved as proposed by CPDCL as the forecasted sales volumes are found reasonable. The details of sales volumes filed and approved are given in Table 75.

Table 75: CPDCL: Sales Volume for FY2009-10

Voltage and Consumer Category		(MU)	
		Filed by CPDCL	Approved by APERC
LT01	Domestic	5201.63	5201.63
LT02	Non-Domestic	1731.60	1731.60
LT03	Industrial	1249.30	1249.30
LT04	Cottage	17.34	17.34
LT05	Agriculture	7043.99	6234.90
LT06	Public Lighting	597.52	597.52
LT07	General	61.99	61.99
LT08	Temporary	5.60	5.60
HT01	Industry, General	8728.94	8728.94
HT01(b)	Industry, Ferro Alloys	468.54	468.54
HT02	Industrial Others	1423.04	1423.04
HT04	Irrigation & Agricultural	2210.98	482.73
HT05	Traction	116.84	116.84
HT06	Colony Lighting	91.10	91.10
HT Others	REC Societies	0.00	0.00
HT Others	Temporary	10.10	10.10
Total	All Categories	28958.51	26421.18
Figures are rounded			

Power Purchase Cost

327. The power procurement requirement for CPDCL is computed based on revised sales volumes grossed up with approved distribution losses (Para 227) for FY2009-10 at 31564 MU. The power purchase cost for the approved power procurement requirement is approved at Rs.6830.99 Cr. against Rs.7745.75 Cr. filed by CPDCL(Para 302 to 306). The details are given in Annexure-G(i).

SLDC Cost

328. The fee and charges for State Load Despatch Centre(SLDC) are determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the fee and charge for SLDC services applicable for FY2009-10 and the generation capacity contracted by CPDCL, the SLDC cost is computed and approved at Rs.12.74 Cr. against Rs.17.73 Cr. filed by CPDCL.

Transmission Cost

329. The transmission tariff for intra state transmission is determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the transmission tariff applicable for FY2009-10 and generation capacity contracted by CPDCL, the transmission cost is computed and approved at Rs.336.26 Cr. against Rs.459.49 Cr. filed by CPDCL for FY2009-10.

Distribution Cost

330. The distribution cost for CPDCL is approved as part of the wheeling tariff determination for the Control Period of five years from 2009-10 to 2013-14(Chapter-VI). The net distribution ARR approved for FY2009-10 at Rs.1022.29 Cr. is considered as distribution cost against Rs.1313.67 Cr. filed by CPDCL.

PGCIL and ULDC Cost

331. CPDCL filed the expenses related to evacuation of power from Central Generating Stations(CGS) in two forms, to be paid in the form of PGCIL transmission charges and ULDC load dispatch charges. Based on further details made available by CPDCL, the PGCIL expenses are reduced by Rs.0.99 Cr. and the ULDC expenses are approved as filed by CPDCL.

Interest Cost on Consumer Security Deposits

332. The interest cost on consumer security deposit is approved at Rs.65.32 Cr. as filed by the CPDCL for FY2009-10 as this amount is calculated based on Regulation issued for the purpose.

Retail Supply Margin

333. The retail supply margin is provided at Rs,8.40 Cr. for FY2009-10. The amount is calculated at 2 percent on equity portion of the RRB approved for the distribution Business for FY2009-10. CPDCL did not include the retail supply margin in its ARR computations.

Gross ARR

334. With these changes in individual items of ARR, the gross ARR is approved at Rs.8416.32 Cr. against Rs.9743.28 Cr. filed by CPDCL for FY2009-10. The approved ARR is used as the basis for determination of retail supply tariff for FY2009-10. The details of gross ARR amount filed and approved are given in Table 76.

Table 76: CPDCL: Revenue Requirement for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by CPDCL	Approved by APERC
SLDC Expenses	17.73	12.74
Transmission Cost	459.49	336.26
Distribution Cost	1313.67	1022.29
Power Purchases	7745.75	6830.99
PGCIL Expenses	129.23	128.24
ULDC Expenses	12.08	12.08
Interest on Consumer Deposits	65.32	65.32
Supply Margin	0.00	8.40
Revenue Requirement	9743.28	8416.32
Figures are rounded		

PART-B:REVENUE AND REVENUE GAP

Tariff Changes

335. Some changes in energy charges and categorization of consumers have been done for FY2009-10 that will have a bearing on revenue from tariff. These changes are as follows;
- a) the energy charge for HT I: Industrial and HT V: Railway Traction has been reduced by Rs.0.05/kWh for FY2009-10. This is to progressively achieve the mandatory objective contained in section 42 of the Electricity Act 2003,
 - b) Rural Horticulture Nurseries have been placed in LT V(A):Agricultural Category with energy charge at Rs.1.00/kWh on request of Government of Andhra Pradesh as submitted by some DISCOMs,

- c) Salt Farming Units have been placed in LT V(A): Agricultural Category with energy charge at Rs.1.00/kWh, on request of Government of Andhra Pradesh as submitted by some DISCOMS,
- d) cotton seed oil mills are classified as seasonal industry on request of Government of Andhra Pradesh and as recommended by Licensees, and
- e) A new category has been introduced under LT VII(B):Religious places with connected load up to 1 kW with first 200 units at Rs.2.00/kWh and the balance units at Rs.4.00/kWh in view of continued public representations.

Revenue from Tariff and Other Sources

336. The revenue from sale of energy and other sources from different consumer categories is approved at Rs.7388.60 cr, against Rs.7680.04 Cr. filed by CPDCL for FY2009-10 with the following modifications;

- a) reduction in the volume of sales to LT Agriculture and HT Lift Irrigation Schemes compared with the filings,
- b) reduction in the energy charge for HT I: Industrial consumers and HT V: Railway Traction by Rs.0.05/kWh,
- c) increase in non-tariff income to the tune of 54.17 Cr. based on examination of audited accounts and estimate for FY2009-10,
- d) additional revenue at Rs.108.83 Cr. on consumer security deposits as the cost of deposits is recognized as expense item in ARR calculations, and
- e) revenue from trading of electricity is not considered as the same is taken into account in the power purchase cost.

337. The details of total revenue from each category of consumers including the apportioned non-tariff income filed and approved are given in Table 77.

Table 77: CPDCL: Revenue from Sales and Other Sources for FY2009-10

		Rs.Cr.	
Voltage and Consumer Category		Filed by CPDCL	Approved by APERC
LT01	Domestic	1463.50	1495.62
LT02	Non-Domestic	1031.89	1054.60
LT03	Industrial	546.47	558.36
LT04	Cottage	3.48	3.55
LT05	Agriculture	40.70	40.50
LT06	Public Lighting	133.43	136.36
LT07	General	25.42	25.98
LT08	Temporary	3.49	3.57
HT01	Industry, General	2981.77	3008.13
HT01(b)	Industry, Ferro Alloys	114.79	114.93
HT02	Industrial Others	718.10	733.92
HT04	Irrigation & Agricultural	524.88	119.54
HT05	Traction	46.86	47.30
HT06	Colony Lighting	36.66	37.46
HT Others	REC Societies	0.00	0.00
HT Others	Temporary	8.60	8.79
Total	All Categories	7680.04	7388.60

Figures are rounded

Revenue Gap

338. With the approved gross ARR and revenue for FY2009-10, CPDCL will have the revenue deficit at Rs.1027.72 Cr. against Rs.2058.71 Cr. filed by CPDCL. The details of the ARR, Revenue and Revenue Gap for FY2009-10 filed and approved are given in Table 78.

Table 78: CPDCL: Revenue Gap for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by CPDCL	Approved by APERC
1.Revenue Requirement	9743.28	8416.32
2.Revenue	7684.57	7388.60
Revenue from Sale	7680.04	7388.60
Revenue from Trading,	4.53	0.00
Revenue Gap (1-2)	2058.71	1027.72
Figures are rounded		

PART-C:RETAIL SUPPLY TARIFF FOR FY2009-10

General Approach

339. With the view that CPDCL shall be provided the revenue to meet the approved ARR to be able to serve the consumers, it has been decided to provide the ways and means to recover the approved ARR for FY2009-10. To achieve this objective, the retail supply tariff has been adjusted to recover the approved revenue utilizing a)Cost of service model and b)Tariff model.

Cost of Service (COS)

340. As per the earlier practice, the gross ARR is apportioned among consumer categories based on embedded cost model to derive the total cost and unit cost (cost of service) for each consumer category. Based on evening peak, consumer class cost and unit cost of service for all major possible consumer categories have been arrived for FY2009-10. The cost allocated among consumer classes is the basis for the determination of the tariff for FY2009-10. The details of COS for CPDCL are given in Annexure-I.

Tariff Model

341. After apportioning the cost and revenue to different consumer classes, the subsidizing and subsidized consumer classes are identified at aggregate level. In this framework a consumer class is;

- a. subsidizing if the revenue from sale of electricity and other sources is more than the cost apportioned to it, and
 - b. subsidized if the revenue from sale of electricity and other sources is less than the cost apportioned to it.
342. The sum of revenue in excess of cost from subsidizing consumer classes (cross subsidy) is allocated to subsidized consumer classes in proportion to their contribution to overall revenue gap. The net revenue deficit for each subsidized consumer class is computed after allocation of the cross subsidy.

Commission Adjusted Tariff

343. Based on the COS model and Tariff Model as enumerated above, the tariff proposed by the CPDCL for subsidizing consumer classes has been kept constant with a reduction of Rs0.05/kWh for HT Category-I: Industrial Consumers and HT Category V: Railway Traction. To eliminate the revenue gap, the energy charges are adjusted upwards for the subsidized consumer classes to the extent of net revenue deficit. Accordingly, It has been ensured that with this adjusted tariff, CPDCL will be able to recover the approved revenue requirement. The “Commission Adjusted Tariff” has accordingly been worked out and is indicated at column 8,9 and 10 of Table 79 below:

Table 79: CPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by CPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
LT01	DOMESTIC									
	Slab 1 (0-50)			2403			1.45			2.38
	Slab 2 (51-100)			1095			2.80			3.24
	Slab 3 (101-200)			950			3.05			3.41
	Slab 4 (201-300)			351			4.75			4.75
	Slab 5 (>300)			403			5.50			5.50
LT02	NON-DOMESTIC									
	Slab 1 (0-50)			281			3.85			3.85
	Slab 2 (>50)			1450			6.20			6.20
LT03	INDUSTRIAL NORAML									
	Industrial Normal		1227982	944		37.00	3.75		37	3.75
	Industrial Optional				100		3.75	100		3.75
	Pisciculture/Prawn						0.90			0.90

Table 79: CPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by CPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	culture									
	Sugarcane crushing						0.50			0.50
	INDUSTRIAL OPTIONAL									
	SSI Units	114.05		305	100		3.75	100		3.75
	Seasonal Industries (off season tariff)				100		4.40	100		4.40
LT04	COTTAGE INDUSTRIES		17109	17		10.00	1.80		10	2.41
LT05	IRRIGATION AND AGRICULTURE									
	With DSM Measures									
	Corporate Farmers & IT Assesses			10			1.00			1.65
	Wet Land Farmers (Holdings >2.5 acre)			1			0.20			1.20
	Dry Land Farmers (Connections > 3 nos.)			13			0.20			1.18
	Wet Land Farmers (Holdings <= 2.5 acre)			0			0.00			
	Dry Land Farmers (Connections <= 3 nos.)			6099			0.00			1.08
	Without DSM Measures									
	Corporate Farmers & IT Assesses			12			2.00			2.19
	Wet Land Farmers (Holdings >2.5 acre)			19			0.50			1.34
	Dry Land Farmers (Connections > 3 nos.)			18			0.50			1.36
	Wet Land Farmers (Holdings <= 2.5 acre)			0			0.20			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0			0.20			0.20
	AGRICULTURE (TATKAL)			63			0.20			1.10
LT06	LOCAL BODIES									

Table 79: CPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by CPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Street Lighting									
	Minor Panchayats			71			1.56			2.65
	Major Panchayats			17			2.08			2.96
	Nagarpalikas & Municipalities (Gr 3)			4			2.74			3.34
	Municipalities (Gr 1&2)			9			3.26			3.63
	Municipalities Selection Special Group			2			3.53			3.79
	Corporations			220			3.79			3.94
	PWS Schemes									
	Minor/ Major Panchayats									
	Upto 2500 units/Yr			17			0.20			1.87
	Above 2500 units/Yr			217			0.50			2.06
	All Nagarpalikas & Municipalities									
	Upto 1000 units		5370	6		20.00	3.75		20	3.82
	More than 1000 units		5029	11		20.00	4.05		20	4.05
	Municipal Corporations									
	Upto 1000 units		7683	11		20.00	4.05		20	4.05
	More than 1000 units		3195	11		20.00	4.60		20	4.60
LT07	GENERAL PURPOSE			62			4.00			4.03
LT08	TEMPORARY SUPPLY									
	Temporary Supply to Non-agriculture			6			6.20			6.20
	Temporary Supply to Agriculture						2.30			2.30
	HT 132 KV									
HT01	HT-I Indl Segregated	512		2431	250		2.75	250		2.70
HT01	Lights & Fans			7			4.40			4.40
HT01	Colony consumption			17			4.00			4.00
HT01	Seasonal Industries (off season tariff)				250		3.60	250		3.60

Table 79: CPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by CPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
HT01(b)	HT - I(B) Ferro-alloys			398			2.45			2.40
HT02	HT-II - Industrial Non Segregated	35		110	250		3.60	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			445			2.36			2.37
HT04(B)	HT -IV B Irrigation & Agriculture						2.36			2.68
HT05	HT-V - Railway Traction			117			4.00			3.95
HT06	HT-VI -Colony Supply						4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				375		6.00	375		6.00
	HT 33KV									
HT01	HT-I Indl Segregated	764		3724	230		3.00	230		2.95
HT01	Lights & Fans			66			4.40			4.40
HT01	Colony consumption			8			4.00			4.00
HT01	Seasonal Industries (off season tariff)				230		3.80	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			71			2.45			2.40
HT02	HT-II - Industrial Non Segregated	125		384	230		3.80	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation						2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			5			2.36			2.36
HT06	HT-VI -Colony Supply			14			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$			1	345		5.70	345		5.70
	HT 11KV									
HT01	HT-I Indl Segregated	694		2397	195		3.25	195		3.20
HT01	Lights & Fans			70			4.40			4.40
HT01	Colony consumption			4			4.00			4.00
HT01	Seasonal Industries (off season tariff)	2		5	195		4.30	195		4.30
HT01(b)	HT - I(B) Ferro-						2.45			2.40

Table 79: CPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by CPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	alloys									
HT02	HT-II - Industrial Non Segregated	363		929	195		4.30	195		4.30
HT04(A)	HT -IV A Govt Lift Irrigation						2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			32			2.36			2.36
HT06	HT-VI -Colony Supply			77			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$			9	293		6.45	293		6.45

\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs.

Consultation with Government of Andhra Pradesh(GoAP)

344. The tariff determination details along with the changes made for HT Category I: Industrial and HT Category V: Railway Traction were informed to the GoAP. The GOAP was informed further that if the tariff proposed for FY2009-10 by CPDCL (with modifications made by the Commission as enumerated in Para 335) is to be maintained, the GOAP will have to pay Rs.1027.72 Cr. subsidy to CPDCL for FY2009-10.
345. In response, the GoAP has informed that it is committed to provide subsidy amount of Rs.1027.71 Cr. under section 65 of the Electricity Act 2003 in the manner specified by the Commission to maintain the current tariff as proposed by CPDCL with modifications as enumerated in Para 335.
346. The GoAP further informed that it had decided to continue with the “single bulb scheme” for the FY 2009-10. Accordingly, the GoAP conveyed willingness to pay additional subsidy, as per the quantum to be indicated by the Commission, to CPDCL for supplies under this scheme. The details of the subsidy amount agreed to be provided by the GoAP to different consumer categories for FY2009-10 are given in Table 80.

Table 80: CPDCL: GOAP Subsidy for FY2009-10

(Rs.Cr)

Consumer Category		Subsidy Amount
LT01	Domestic	308.20
LT04	Cottage Industries	1.06
LT05	Agriculture	667.75
LT06	Public Lighting	50.08
LT07	General	0.21
HT04	Irrigation & Agricultural	0.41
Total		1027.71
Figures are rounded		

Retail Supply Tariff

347. The Commission, in accordance with the GoAP decision to provide subsidy to maintain the current tariff schedule with modifications made by the Commission, hereby determines the retail supply tariff for FY2009-10 as per the rates indicated in Table 81 given below.

Table 81:CPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT01	DOMESTIC			
	Slab 1 (0-50)			1.45
	Slab 2 (51-100)			2.80
	Slab 3 (101-200)			3.05
	Slab 4 (201-300)			4.75
	Slab 5 (>300)			5.50
LT02	NON-DOMESTIC			
	Slab 1 (0-50)			3.85
	Slab 2 (>50)			6.20
LT03	INDUSTRIAL NORAML			
	Industrial Normal		37	3.75
	Industrial Optional	100		3.75
	Pisciculture/Prawn culture			0.90
	Sugarcane crushing			0.50
	Poultry Farms with more than 1000 birds. \$\$		37	3.75
	Mushroom production Farms, Rabbit Farms \$\$		37	3.75
	Floriculture in Green-Houses \$\$		37	3.75
	INDUSTRIAL OPTIONAL			
	SSI Units	100		3.75
	Seasonal Industries	100		4.40
LT04	COTTAGE INDUSTRIES		10	1.80

Table 81:CPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT05	IRRIGATION AND ARICULTURE			
	With DSM Measures			
	Corporate Farmers & IT Assesses			1.00
	Wet Land Farmers (Holdings >2.5 acre)			0.20
	Dry Land Farmers (Connections > 3 nos.)			0.20
	Wet Land Farmers (Holdings <= 2.5 acre)			0.00
	Dry Land Farmers (Connections <= 3 nos.)			0.00
	Salt Farming Units with CL up to 15HP \$			1.00
	Rural Horticulture Nurseries			1.00
	Without DSM Measures			
	Corporate Farmers & IT Assesses			2.00
	Wet Land Farmers (Holdings >2.5 acre)			0.50
	Dry Land Farmers (Connections > 3 nos.)			0.50
	Wet Land Farmers (Holdings <= 2.5 acre)			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0.20
	AGRICULTURE (TATKAL)			0.20
LT06	LOCAL BODIES			
	Street Lighting			
	Minor Panchayats			1.56
	Major Panchayats			2.08
	Nagarpalikas & Municipalities (Gr 3)			2.74
	Municipalities (Gr 1&2)			3.26
	Municipalities Selection Special Group			3.53
	Corporations			3.79
	PWS Schemes			
	Minor/ Major Panchayats			
	Upto 2500 units/Yr			0.20
	Above 2500 units/Yr			0.50
	All Nagarpalikas & Municipalities			
	Upto 1000 units		20	3.75
	More than 1000 units		20	4.05
	Municipal Corporations			
	Upto 1000 units		20	4.05
	More than 1000 units		20	4.60
LT07(a)	GENERAL PURPOSE			4.00
LT07(b)	RELIGIOUS PLACES with CL up to 1 kW			
	Slab 1 (0-200)			2.00

Table 81:CPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
	Slab 2 (>200)			4.00
LT08	TEMPORARY SUPPLY			
	Temporary Supply to Non-agriculture			6.20
	Tempoary Supply to Agriculture			2.30
	HT 132 KV			
HT01	HT-I Indl Segregated	250		2.70
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	250		3.60
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT05	HT-V -RailwayTraction			3.95
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	375		6.00
	HT 33KV			
HT01	HT-I Indl Segregated	230		2.95
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	345		5.70
	HT 11KV			
HT01	HT-I Indl Segregated	195		3.20
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	195		4.30
HT04(A)	HT -IV A Govt Lift Irrigation			2.36

Table 81:CPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	293		6.45
	HT All Voltages			
HT07(C)	Green Power\$\$			6.70
HT07(D)	Composite Public Water Supply Schemes\$\$			0.35
\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs. \$\$ Included in Tariff Schedule.				

348. The Retail Supply Tariff Schedule for CPDCL indicating the retail supply charges applicable for all categories of consumers for FY 2009-10 is given in Annexure-D.

349. The tariff determined in Para 347 is contingent on payment of subsidy as agreed by the GoAP. The CPDCL shall keep the Commission informed periodically about the payment of subsidy by the GoAP.

Administration of Subsidy

350. Subsidy provided by the GOAP is administered as follows:

- a) CPDCL gets the subsidy commensurate to the extent of energy sales volumes approved in this Order and not to cover the additional power purchases made by CPDCL over and above volumes approved in this Order at the instance or with the approval of GoAP, or otherwise.
- b) The subsidy allocation for CPDCL as mentioned in this Order must be paid by the GoAP to CPDCL in monthly installments, in advance.

351. In the context of administration of the subsidy to be paid by the GOAP, CPDCL is directed to;

file the details of actual sales to subsidized categories of consumers for whom the GoAP agreed to pay the subsidy every month and the Commission will monitor the units actually sold by the Licensee vis-à-vis the subsidy provided. At the end of the year, subsidy adjustments will be made based on the consumption of units in respect of various subsidized categories.

CHAPTER-XII
RETAIL SUPPLY TARIFF DETERMINATION
EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (EPDCL)

Introduction

352. The Commission, after examination of the issues related to determination of retail supply tariff including the objections and suggestions received/heard on filings, has examined the revenue requirement, revenue and revenue gap for determining the retail supply tariff for EPDCL for FY2009-10, as detailed hereunder.

PART-A:REVENUE REQUIREMENT

Revision in Sales Volumes

353. The sales volume to different consumer categories for FY2009-10 is approved at 9442 MU against 9740 MU filed by EPDCL while incorporating the following two changes;
- a) the volume of sales to LT Agriculture is fixed at 1323 MU against 1420 MU filed by EPDCL for FY2009-10 (Para 297), and
 - b) the volume of sales to HT Lift Irrigation Schemes is fixed at 27 MU against 228 MU filed by EPDCL for FY2009-10 (Para 298).
354. The sales volumes for the remaining consumer categories are approved as proposed by EPDCL as the forecasted sales volumes are found reasonable. The details of sales volumes filed and approved are given in Table 82.

Table 82: EPDCL: Sales Volume for FY2009-10

Voltage and Consumer Category		(MU)	
		Filed by EPDCL	Approved by APERC
LT01	Domestic	2733.45	2733.45
LT02	Non-Domestic	562.30	562.30
LT03	Industrial	433.81	433.81
LT04	Cottage	1.95	1.95
LT05	Agriculture	1420.30	1323.00
LT06	Public Lighting	256.33	256.33
LT07	General	32.37	32.37
LT08	Temporary	0.29	0.29
HT01	Industry, General	2449.50	2449.50
HT01(b)	Industry, Ferro Alloys	644.66	644.66
HT02	Industrial Others	284.97	284.97
HT04	Irrigation & Agricultural	227.80	27.00
HT05	Traction	499.60	499.60
HT06	Colony Lighting	25.84	25.84
HT Others	REC Societies	166.96	166.96
HT Others	Temporary	0.00	0.00
Total	All Categories	9740.15	9442.05

Figures are rounded

Power Purchase Cost

355. The power procurement requirement for EPDCL is computed based on revised sales volumes grossed up with approved distribution losses (Para 227) for FY2009-10 at 10945 MU. The power purchase cost for the approved power procurement requirement of 10945 MU is approved at Rs.2398.90 Cr. against Rs.2639.27 Cr. filed by EPDCL(Para 302 to 306). The details are in Annexure-G(ii).

SLDC Cost

356. The fee and charges for State Load Despatch Centere(SLDC) are determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the fee and charge for SLDC services applicable for FY2009-10 and the generation capacity contracted by EPDCL, the SLDC cost is computed and approved at Rs.4.52 Cr. against Rs.6.29 Cr. filed by EPDCL.

Transmission Cost

357. The transmission tariff for intra state transmission is determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the transmission tariff applicable for FY2009-10 and generation capacity contracted by EPDCL, the transmission cost is computed and approved at Rs.119.22 Cr. against Rs.162.97 Cr. filed by EPDCL for FY2009-10.

Distribution Cost

358. The distribution cost for EPDCL is approved as part of the wheeling tariff determination for the Control Period of five years from 2009-10 to 2013-14(Chapter-VII). The net distribution ARR approved for FY2009-10 at Rs.544.85 Cr. is considered as distribution cost against Rs.634.24 Cr. filed by EPDCL.

PGCIL and ULDC Cost

359. EPDCL filed the expenses related to evacuation of power from Central Generating Stations(CGS) in two forms, to be paid in the form of PGCIL transmission charges and ULDC load dispatch charges. Based on further details made available by EPDCL, both PGCIL and ULDC expenses are approved as filed by EPDCL.

Interest Cost on Consumer Security Deposits

360. The interest cost on consumer security deposit is approved at Rs.32.68 Cr. as filed by the EPDCL for FY2009-10 as this amount is calculated based on Regulation issued for the purpose.

Retail Supply Margin

361. The retail supply margin is provided at Rs.4.16 Cr. for FY2009-10. The amount is calculated at 2 percent on equity portion of the RRB approved for the distribution Business for FY2009-10. EPDCL did not include the retail supply margin in its ARR computations.

Gross ARR

362. With these changes in individual items of ARR, the gross ARR is approved at Rs.3152.80 Cr. against Rs. 3523.93 Cr. filed by EPDCL for FY2009-10. The approved ARR is used as the basis for determination of retail supply tariff for FY2009-10. The details of gross ARR amount filed and approved are given in Table 83.

Table 83: EPDCL: Revenue Requirement for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by EPDCL	Approved by APERC
SLDC Expenses	6.29	4.52
Transmission Cost	162.97	119.22
Distribution Cost	634.24	544.85
Power Purchases	2639.27	2398.90
PGCIL Expenses	44.33	44.33
ULDC Expenses	4.14	4.14
Interest on Consumer Deposits	32.68	32.68
Supply Margin	0.00	4.16
Revenue Requirement	3523.93	3152.80
Figures are rounded		

PART-B:REVENUE AND REVENUE GAP

Tariff Changes

363. Some changes in energy charges and categorization of consumers have been done for FY2009-10 that will have a bearing on revenue from tariff. These changes are as follows;
- a) the energy charge for HT I: Industrial and HT V: Railway Traction has been reduced by Rs.0.05/kWh for FY2009-10. This is to progressively achieve the mandatory objective contained in section 42 of the Electricity Act 2003,
 - b) Rural Horticulture Nurseries have been placed in LT V(A):Agricultural Category with energy charge at Rs.1.00/kWh on request of Government of Andhra Pradesh as submitted by some DISCOMs,
 - c) Salt Farming Units have been placed in LT V(A): Agricultural Category with energy charge at Rs.1.00/kWh, on request of Government of Andhra Pradesh as submitted by some DISCOMs,
 - d) cotton seed oil mills are classified as seasonal industry on request of Government of Andhra Pradesh and as recommended by Licensees, and

- e) A new category has been introduced under LT VII(B):Religious places with connected load up to 1 kW with first 200 units at Rs.2.00/kWh and the balance units at Rs.4.00/kWh in view of continued public representations.

Revenue from Tariff and Other Sources

364. The revenue from sale of energy and other sources from different consumer categories is approved at Rs.2718.16 cr, against Rs.2739.48 Cr. filed by EPDCL for FY2009-10 with the following modifications;

- a) reduction in the volume of sales to LT Agriculture and HT Lift Irrigation Schemes compared with the filings,
- b) reduction in the energy charge for HT I: Industrial consumers and HT V: Railway Traction by Rs.0.05/kWh,
- c) reduction in non-tariff income by Rs.10.63 Cr. based on examination of audited accounts and estimate for FY2009-10,
- d) additional revenue at Rs.54.47 Cr. on consumer security deposits as the cost of deposits is recognized as expense item in ARR calculations, and
- e) revenue from trading of electricity is not considered as the same is taken into account in the power purchase cost.

365. The details of total revenue from each category of consumers including the apportioned non-tariff income filed and approved are given in Table 84.

Table 84: EPDCL: Revenue from Sales and Other Sources for FY2009-10

Voltage and Consumer Category		Rs.Cr.	
		Filed by EPDCL	Approved by APERC
LT01	Domestic	681.81	692.72
LT02	Non-Domestic	330.25	335.60
LT03	Industrial	195.99	199.15
LT04	Cottage	0.44	0.44
LT05	Agriculture	17.39	17.11
LT06	Public Lighting	46.26	47.00
LT07	General	13.97	14.20
LT08	Temporary	0.19	0.19
HT01	Industry, General	857.08	859.43
HT01(b)	Industry, Ferro Alloys	162.76	162.08
HT02	Industrial Others	152.52	154.99
HT04	Irrigation & Agricultural	54.03	7.35
HT05	Traction	204.11	204.85
HT06	Colony Lighting	10.59	10.77
HT Others	REC Societies	12.10	12.28
HT Others	Temporary	0.00	0.00
Total	All Categories	2739.48	2718.16

Figures are rounded

Revenue Gap

366. With the approved gross ARR and revenue for FY2009-10, EPDCL will have the revenue deficit at Rs.434.64 Cr. against Rs. 583.76 Cr. filed by EPDCL. The details of the ARR, Revenue and Revenue Gap for FY2009-10 filed and approved are given in Table 85.

Table 85: EPDCL: Revenue Gap for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by EPDCL	Approved by APERC
1.Revenue Requirement	3523.93	3152.80
2.Revenue	2940.17	2718.16
Revenue from Sale	2739.48	2718.16
Revenue from Trading,	200.69	0.00
Revenue Gap (1-2)	583.76	434.64
Figures are rounded		

PART-C:RETAIL SUPPLY TARIFF FOR FY2009-10

General Approach

367. With the view that EPDCL shall be provided the revenue to meet the approved ARR to be able to serve the consumers, it has been decided to provide the ways and means to recover the approved ARR for FY2009-10. To achieve this objective, the retail supply tariff has been adjusted to recover the approved revenue utilizing a)Cost of service model and b)Tariff model.

Cost of Service (COS)

368. As per the earlier practice, the gross ARR is apportioned among consumer categories based on embedded cost model to derive the total cost and unit cost (cost of service) for each consumer category. Based on evening peak, consumer class cost and unit cost of service for all major possible consumer categories have been arrived for FY2009-10. The cost allocated among consumer classes is the basis for the determination of the tariff for FY2009-10. The details of COS for EPDCL are given in Annexure-J.

Tariff Model

369. After apportioning the cost and revenue to different consumer classes, the subsidizing and subsidized consumer classes are identified at aggregate level. In this framework a consumer class is;

- a. subsidizing if the revenue from sale of electricity and other sources is more than the cost apportioned to it, and
 - b. subsidized if the revenue from sale of electricity and other sources is less than the cost apportioned to it.
370. The sum of revenue in excess of cost from subsidizing consumer classes (cross subsidy) is allocated to subsidized consumer classes in proportion to their contribution to overall revenue gap. The net revenue deficit for each subsidized consumer class is computed after allocation of the cross subsidy.

Commission Adjusted Tariff

371. Based on the COS model and Tariff Model as enumerated above, the tariff proposed by the EPDCL for subsidizing consumer classes has been kept constant with a reduction of Rs0.05/kWh for HT Category-I: Industrial Consumers and HT Category V: Railway Traction. To eliminate the revenue gap, the energy charges are adjusted upwards for the subsidized consumer classes to the extent of net revenue deficit. Accordingly, It has been ensured that with this adjusted tariff, CPDCL will be able to recover the approved revenue requirement. The “Commission Adjusted Tariff” has accordingly been worked out and is indicated at column 8,9 and 10 of Table 86 below:

Table 86: EPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by EPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
LT01	DOMESTIC									
	Slab 1 (0-50)			1673			1.45			2.51
	Slab 2 (51-100)			607			2.80			3.24
	Slab 3 (101-200)			312			3.05			3.40
	Slab 4 (201-300)			70			4.75			4.75
	Slab 5 (>300)			72			5.50			5.50
LT02	NON-DOMESTIC									
	Slab 1 (0-50)			135			3.85			3.85
	Slab 2 (>50)			428			6.20			6.20
LT03	INDUSTRIAL NORAML									
	Industrial Normal		688936	365		37	3.75		37	3.75
	Industrial Optional				100		3.75	100		3.75
	Pisciculture/Prawn culture		49210	29			0.90			0.90

Table 86: EPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by EPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Sugarcane crushing						0.50			0.50
	INDUSTRIAL OPTIONAL									
	SSI Units	61		39	100		3.75	100		3.75
	Seasonal Industries (off season tariff)				100		4.40	100		4.40
LT04	COTTAGE INDUSTRIES		6081	2		10	1.80		10	2.34
LT05	IRRIGATION AND AGRICULTURE									
	With DSM Measures									
	Corporate Farmers & IT Assesses			7			1.00			1.88
	Wet Land Farmers (Holdings >2.5 acre)			57			0.20			1.46
	Dry Land Farmers (Connections > 3 nos.)			5			0.20			1.45
	Wet Land Farmers (Holdings <= 2.5 acre)			138			0.00			1.36
	Dry Land Farmers (Connections <= 3 nos.)			1017			0.00			1.36
	Without DSM Measures									
	Corporate Farmers & IT Assesses						2.00			2.00
	Wet Land Farmers (Holdings >2.5 acre)			42			0.50			1.61
	Dry Land Farmers (Connections > 3 nos.)			4			0.50			1.60
	Wet Land Farmers (Holdings <= 2.5 acre)						0.20			0.20
	Dry Land Farmers (Connections <= 3 nos.)						0.20			0.20
	AGRICULTURE (TATKAL)			52			0.20			1.42
LT06	LOCAL BODIES									
	Street Lighting									

Table 86: EPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by EPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Minor Panchayats			63			1.56			2.83
	Major Panchayats			31			2.08			3.12
	Nagarpalikas & Municipalities (Gr 3)			5			2.74			3.48
	Municipalities (Gr 1&2)			10			3.26			3.77
	Municipalities Selection Special Group			4			3.53			3.91
	Corporations			33			3.79			4.06
	PWS Schemes									
	Minor/ Major Panchayats									
	Upto 2500 units/Yr		19566	45			0.20			2.11
	Above 2500 units/Yr		45655	54			0.50			2.28
	All Nagarpalikas & Municipalities						0.00			
	Upto 1000 units		815	1		20	3.75		20	3.87
	More than 1000 units		3261	4		20	4.05		20	4.13
	Municipal Corporations									
	Upto 1000 units		326	1		20	4.05		20	4.14
	More than 1000 units		4566	7		20	4.60		20	4.60
LT07	GENERAL PURPOSE		48830	32			4.00			4.07
LT08	TEMPORARY SUPPLY						0.00			
	Temporary Supply to Non-agriculture		334	0			6.20			6.20
	Temporary Supply to Agriculture						2.30			2.30
	HT 132 KV									
HT01	HT-I Indl Segregated	275		1064	250		2.75	250		2.70
HT01	Lights & Fans			0			4.40			4.40
HT01	Colony consumption			0			4.00			4.00
HT01	Seasonal Industries (off season tariff)				250		3.60	250		3.60
HT01(b)	HT - I(B) Ferro-alloys			579			2.45			2.40

Table 86: EPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by EPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
HT02	HT-II - Industrial Non Segregated	11		15	250		3.60	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			0			2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture						2.36			2.36
HT05	HT-V - Railway Traction			500			4.00			3.95
HT06	HT-VI -Colony Supply			0			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				375		6.00	375		6.00
	HT 33KV									
HT01	HT-I Indl Segregated	109		505	230		3.00	230		2.95
HT01	Lights & Fans			0			4.40			4.40
HT01	Colony consumption			0			4.00			4.00
HT01	Seasonal Industries (off season tariff)				230		3.80	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			66			2.45			2.40
HT02	HT-II - Industrial Non Segregated	16		56	230		3.80	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			24			2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			0			2.36			2.36
HT06	HT-VI -Colony Supply			4			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$			0	345		5.70	345		5.70
	HT 11KV									
HT01	HT-I Indl Segregated	245		880	195		3.25	195		3.20
HT01	Lights & Fans						4.40			4.40
HT01	Colony consumption						4.00			4.00
HT01	Seasonal Industries (off season tariff)			0	195		4.30	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			0			2.45			2.40
HT02	HT-II - Industrial	93		214	195		4.30	195		4.30

Table 86: EPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by EPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Non Segregated									
HT04(A)	HT -IV A Govt Lift Irrigation						2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			3			2.36			2.36
HT06	HT-VI -Colony Supply			22			4.00			4.00
HT07(A)	Rural co-operatives						0.66			1.33
HT07(B)	Temporary \$			0	293		6.00	292.5		6.45

\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs.

Consultation with Government of Andhra Pradesh(GoAP)

372. The tariff determination details along with the changes made for HT Category I: Industrial and HT Category V:Railway Traction were informed to the GOAP. The GOAP was informed further that if the tariff proposed for FY2009-10 by EPDCL (with modifications made by the Commission as enumerated in Para 363) is to be maintained, the GOAP will have to pay Rs.434.64 Cr. subsidy to EPDCL for FY2009-10.
373. In response, the GoAP has informed that it is committed to provide subsidy amount of Rs.434.64 Cr. under section 65 of the Electricity Act 2003 in the manner specified by the Commission to maintain the current tariff as proposed by EPDCL with modifications as enumerated in Para 363.
374. The GoAP further informed that it had decided to continue with the “single bulb scheme” for the FY 2009-10. Accordingly, the GoAP conveyed willingness to pay additional subsidy, as per the quantum to be indicated by the Commission, to EPDCL for supplies under this scheme. The details of the subsidy amount agreed to be provided by the GoAP to different consumer categories for FY2009-10 are given in Table 87.

Table 87: EPDCL: GOAP Subsidy for FY2009-10

Consumer Category		(Rs.Cr)
		Subsidy Amount
LT01	Domestic	215.21
LT04	Cottage Industries	0.11
LT05	Agriculture	176.72
LT06	Public Lighting	31.27
LT07	General	0.22
HT Others	REC Societies	11.11
Total		434.64
Figures are rounded		

Retail Supply Tariff

375. The Commission, in accordance with the GoAP decision to provide subsidy to maintain the current tariff schedule with modifications made by the Commission, hereby determines the retail supply tariff for FY2009-10 as per the rates indicated in Table 88 given below.

Table 88:EPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT01	DOMESTIC			
	Slab 1 (0-50)			1.45
	Slab 2 (51-100)			2.80
	Slab 3 (101-200)			3.05
	Slab 4 (201-300)			4.75
	Slab 5 (>300)			5.50
LT02	NON-DOMESTIC			
	Slab 1 (0-50)			3.85
	Slab 2 (>50)			6.20
LT03	INDUSTRIAL NORAML			
	Industrial Normal		37	3.75
	Industrial Optional	100		3.75
	Pisciculture/Prawn culture			0.90
	Sugarcane crushing			0.50
	Poultry Farms with more than 1000 birds. \$\$		37	3.75
	Mushroom production Farms, Rabbit Farms \$\$		37	3.75
	Floriculture in Green-Houses \$\$		37	3.75
	INDUSTRIAL OPTIONAL			
	SSI Units	100		3.75
	Seasonal Industries	100		4.40

Table 88:EPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT04	COTTAGE INDUSTRIES		10	1.80
LT05	IRRIGATION AND ARICULTURE			
	With DSM Measures			
	Corporate Farmers & IT Assesses			1.00
	Wet Land Farmers (Holdings >2.5 acre)			0.20
	Dry Land Farmers (Connections > 3 nos.)			0.20
	Wet Land Farmers (Holdings <= 2.5 acre)			0.00
	Dry Land Farmers (Connections <= 3 nos.)			0.00
	Salt Farming Units with CL up to 15HP \$			1.00
	Rural Horticulture Nurseries			1.00
	Without DSM Measures			
	Corporate Farmers & IT Assesses			2.00
	Wet Land Farmers (Holdings >2.5 acre)			0.50
	Dry Land Farmers (Connections > 3 nos.)			0.50
	Wet Land Farmers (Holdings <= 2.5 acre)			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0.20
	AGRICULTURE (TATKAL)			0.20
LT06	LOCAL BODIES			
	Street Lighting			
	Minor Panchayats			1.56
	Major Panchayats			2.08
	Nagarpalikas & Municipalities (Gr 3)			2.74
	Municipalities (Gr 1&2)			3.26
	Municipalities Selection Special Group			3.53
	Corporations			3.79
	PWS Schemes			
	Minor/ Major Panchayats			
	Upto 2500 units/Yr			0.20
	Above 2500 units/Yr			0.50
	All Nagarpalikas & Municipalities			
	Upto 1000 units		20	3.75
	More than 1000 units		20	4.05
	Municipal Corporations			
	Upto 1000 units		20	4.05
	More than 1000 units		20	4.60
LT07(a)	GENERAL PURPOSE			4.00
LT07(b)	RELIGIOUS PLACES with CL up to 1 kW			

Table 88:EPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
	Slab 1 (0-200)			2.00
	Slab 2 (>200)			4.00
LT08	TEMPORARY SUPPLY			
	Temporary Supply to Non-agriculture			6.20
	Tempoary Supply to Agriculture			2.30
	HT 132 KV			
HT01	HT-I Indl Segregated	250		2.70
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	250		3.60
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT05	HT-V -RailwayTraction			3.95
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	375		6.00
	HT 33KV			
HT01	HT-I Indl Segregated	230		2.95
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	345		5.70
	HT 11KV			
HT01	HT-I Indl Segregated	195		3.20
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	195		4.30

Table 88:EPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives*			
HT07(B)	Temporary \$			
	HT All Voltages			
HT07(C)	Green Power\$\$			6.70
HT07(D)	Composite Public Water Supply Schemes\$\$			0.35
*Determined separately for Chipurupally RESCO and Anakapally RESCO. \$The actual tariff is multiple of applicable HT of tariffs. \$\$ Included in Tariff Schedule.				

376. The Retail Supply Tariff Schedule for EPDCL indicating the retail supply charges applicable for all categories of consumers for FY 2009-10 is given in Annexure-D.

377. The tariff determined in para 375 is contingent on payment of subsidy as agreed by the GoAP. The EPDCL shall keep the Commission informed periodically about the payment of subsidy by the Government.

Administration of Subsidy

378. Subsidy provided by the GOAP is administered as follows:

- a) EPDCL gets the subsidy commensurate to the extent of energy sales volumes approved in this Order and not to cover the additional power purchases made by EPDCL over and above volumes approved in this Order at the instance or with the approval of GoAP, or otherwise.
- b) The subsidy allocation for EPDCL as mentioned in this Order must be paid by the GoAP to EPDCL in monthly installments, in advance.

379. In the context of administration of the subsidy to be paid by the GOAP, EPDCL is directed to;

file the details of actual sales to subsidized categories of consumers for whom the GoAP agreed to pay the subsidy every month and the Commission will monitor the units actually sold by the Licensee vis-à-vis the subsidy provided. At the end of the year, subsidy adjustments will be made based on the consumption of units in respect of various subsidized categories.

CHAPTER-XIII
RETAIL SUPPLY TARIFF DETERMINATION
NORTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (NPDCL)

Introduction

380. The Commission, after examination of the issues related to determination of retail supply tariff including the objections and suggestions received/heard on filings, has examined the revenue requirement, revenue and revenue gap for determining the retail supply tariff for NPDCL for FY2009-10, as detailed hereunder.

PART-A:REVENUE REQUIREMENT

Revision in Sales Volumes

381. The sales volume to different consumer categories for FY2009-10 is approved at 8317 MU against 9797 MU filed by NPDCL while incorporating the following two changes;
- a) the volume of sales to LT Agriculture is fixed at 3055 MU against 3959 MU filed by NPDCL for FY2009-10 (Para 297), and
 - b) the volume of sales to HT Lift Irrigation Schemes is fixed at 477 MU against 1053 MU filed by NPDCL for FY2009-10 (Para 298).
382. The sales volumes for the remaining consumer categories are approved as proposed by NPDCL as the forecasted sales volumes are found reasonable. The details of sales volumes filed and approved are given in Table 89.

Table 89: NPDCL: Sales Volume for FY2009-10

		(MU)	
Voltage and Consumer Category		Filed by NPDCL	Approved by APERC
LT01	Domestic	1661.49	1661.49
LT02	Non-Domestic	329.21	329.21
LT03	Industrial	323.68	323.68
LT04	Cottage	6.36	6.36
LT05	Agriculture	3959.18	3054.51
LT06	Public Lighting	304.54	304.54
LT07	General	26.72	26.72
LT08	Temporary	0.20	0.20
HT01	Industry, General	1062.92	1062.92
HT01(b)	Industry, Ferro Alloys	0.00	0.00
HT02	Industrial Others	73.36	73.36
HT04	Irrigation & Agricultural	1052.88	477.38
HT05	Traction	370.51	370.51
HT06	Colony Lighting	125.26	125.26
HT Others	REC Societies	500.55	500.55
HT Others	Temporary	0.00	0.00
Total	All Categories	9796.85	8316.69
<small>Figures are rounded</small>			

Power Purchase Cost

383. The power procurement requirement for NPDCL is computed based on revised sales volumes grossed up with approved distribution losses (Chapter-VIII) for FY2009-10 at 10028 MU. The power purchase cost for the approved power procurement requirement of 10028 MU is approved at Rs.2115.94 Cr. against Rs. 2709.73 Cr. filed by NPDCL(Para 302 to 306). The details are in Annexure-G(iii).

SLDC Cost

384. The fee and charges for State Load Despatch Centre(SLDC) are determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the fee and charge for SLDC services applicable for FY2009-10 and the generation capacity contracted by NPDCL, the SLDC cost is computed and approved at Rs.4.37 Cr. against Rs.6.23 Cr. filed by NPDCL.

Transmission Cost

385. The transmission tariff for intra state transmission is determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the transmission tariff applicable for FY2009-10 and generation capacity contracted by NPDCL, the transmission cost is computed and approved at Rs.115.38 Cr. against Rs. 161.30 Cr. filed by NPDCL for FY2009-10.

Distribution Cost

386. The distribution cost for NPDCL is approved as part of the wheeling tariff determination for the Control Period of five years from 2009-10 to 2013-14(Chapter- VIII). The net distribution ARR approved for FY2009-10 at Rs.519.15 Cr. is considered as distribution cost against Rs.681.74 Cr. filed by NPDCL.

PGCIL and ULDC Cost

387. NPDCL filed the expenses related to evacuation of power from Central Generating Stations(CGS) in two forms, to be paid in the form of PGCIL transmission charges and ULDC load dispatch charges. Based on further details made available by NPDCL, both PGCIL and ULDC expenses are approved as filed by NPDCL.

Interest Cost on Consumer Security Deposits

388. The interest cost on consumer security deposit is approved at Rs.15.14 Cr. as filed by the NPDCL for FY2009-10 as this amount is calculated based on Regulation issued for the purpose.

Retail Supply Margin

389. The retail supply margin is provided at Rs.5.17 Cr. for FY2009-10. The amount is calculated at 2 percent on equity portion of the RRB approved for the distribution Business for FY2009-10. NPDCL did not include the retail supply margin in its ARR computations.

Gross ARR

390. With these changes in individual items of ARR, the gross ARR is approved at Rs.2823.84 Cr. against Rs.3622.83 Cr. filed by NPDCL for FY2009-10. The approved ARR is used as the basis for determination of retail supply tariff for FY2009-10. The details of gross ARR amount filed and approved are given in Table 90.

Table 90: NPDCL: Revenue Requirement for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by NPDCL	Approved by APERC
SLDC Expenses	6.23	4.37
Transmission Cost	161.30	115.38
Distribution Cost	681.74	519.15
Power Purchases	2709.73	2115.94
PGCIL Expenses	44.53	44.53
ULDC Expenses	4.16	4.16
Interest on Consumer Deposits	15.14	15.14
Supply Margin	0.00	5.17
Revenue Requirement	3622.83	2823.84
Figures are rounded		

PART-B:REVENUE AND REVENUE GAP

Tariff Changes

391. Some changes in energy charges and categorization of consumers have been done for FY2009-10 that will have a bearing on revenue from tariff. These changes are as follows;
- a) the energy charge for HT I: Industrial and HT V: Railway Traction has been reduced by Rs.0.05/kWh for FY2009-10. This is to progressively achieve the mandatory objective contained in section 42 of the Electricity Act 2003,
 - b) Rural Horticulture Nurseries have been placed in LT V(A):Agricultural Category with energy charge at Rs.1.00/kWh on request of Government of Andhra Pradesh as submitted by some DISCOMS,
 - c) Salt Farming Units have been placed in LT V(A): Agricultural Category with energy charge at Rs.1.00/kWh, on request of Government of Andhra Pradesh as submitted by some DISCOMS,
 - d) cotton seed oil mills are classified as seasonal industry on request of Government of Andhra Pradesh and as recommended by Licensees, and

- e) A new category has been introduced under LT VII(B):Religious places with connected load up to 1 kW with first 200 units at Rs.2.00/kWh and the balance units at Rs.4.00/kWh in view of continued public representations.

Revenue from Tariff and Other Sources

392. The revenue from sale of energy and other sources from different consumer categories is approved at Rs.1606.84 cr, against Rs. 1697.10 Cr. filed by NPDCL for FY2009-10 with the following modifications;
- reduction in the volume of sales to LT Agriculture and HT Lift Irrigation Schemes compared with the filings,
 - reduction in the energy charge for HT I: Industrial consumers and HT V: Railway Traction by Rs.0.05/kWh,
 - increase in non-tariff income to the tune of Rs.27.88 Cr. based on examination of audited accounts and estimate for FY2009-10,
 - additional revenue at Rs.25.23 Cr. on consumer security deposits as the cost of deposits is recognized as expense item in ARR calculations, and
 - revenue from trading of electricity is not considered as the same is taken into account in the power purchase cost.
393. The details of total revenue from each category of consumers including the apportioned non-tariff income filed and approved are given in Table 91.

Table 91: NPDCL: Revenue from Sales and Other Sources for FY2009-10

Voltage and Consumer Category		Rs.Cr.	
		Filed by NPDCL	Approved by APERC
LT01	Domestic	402.70	416.39
LT02	Non-Domestic	188.52	194.96
LT03	Industrial	148.85	153.94
LT04	Cottage	1.43	1.48
LT05	Agriculture	32.34	32.62
LT06	Public Lighting	43.45	44.91
LT07	General	11.05	11.43
LT08	Temporary	0.12	0.13
HT01	Industry, General	357.72	364.99
HT01(b)	Industry, Ferro Alloys	0.00	0.00
HT02	Industrial Others	38.88	40.21
HT04	Irrigation & Agricultural	251.17	119.32
HT05	Traction	149.15	152.33
HT06	Colony Lighting	50.44	52.16
HT Others	REC Societies	21.28	21.96
HT Others	Temporary	0.00	0.00
Total	All Categories	1697.10	1606.84

Figures are rounded

Revenue Gap

394. With the approved gross ARR and revenue for FY2009-10, NPDCL will have the revenue deficit at Rs.1216.99 Cr. against Rs.1801.88 Cr. filed by NPDCL. The details of the ARR, Revenue and Revenue Gap for FY2009-10 filed and approved are given in Table 92.

Table 92: NPDCL: Revenue Gap for FY2009-10

(Rs.Cr.)		
ARR Item	Filed by NPDCL	Approved by APERC
1.Revenue Requirement	3622.83	2823.84
2.Revenue	1820.95	1606.85
Revenue from Sale	1697.10	1606.84
Revenue from Trading,	123.85	0.00
Revenue Gap (1-2)	1801.88	1216.99
Figures are rounded		

PART-C:RETAIL SUPPLY TARIFF FOR FY2009-10

General Approach

395. With the view that NPDCL shall be provided the revenue to meet the approved ARR to be able to serve the consumers, it has been decided to provide the ways and means to recover the approved ARR for FY2009-10. To achieve this objective, the retail supply tariff has been adjusted to recover the approved revenue utilizing a)Cost of service model and b)Tariff model.

Cost of Service (COS)

396. As per the earlier practice, the gross ARR is apportioned among consumer categories based on embedded cost model to derive the total cost and unit cost (cost of service) for each consumer category. Based on evening peak, consumer class cost and unit cost of service for all major possible consumer categories have been arrived for FY2009-10. The cost allocated among consumer classes is the basis for the determination of the tariff for FY2009-10. The details of COS for NPDCL are given in Annexure-J.

Tariff Model

397. After apportioning the cost and revenue to different consumer classes, the subsidizing and subsidized consumer classes are identified at aggregate level. In this framework a consumer class is;

- a. subsidizing if the revenue from sale of electricity and other sources is more than the cost apportioned to it, and
 - b. subsidized if the revenue from sale of electricity and other sources is less than the cost apportioned to it.
398. The sum of revenue in excess of cost from subsidizing consumer classes (cross subsidy) is allocated to subsidized consumer classes in proportion to their contribution to overall revenue gap. The net revenue deficit for each subsidized consumer class is computed after allocation of the cross subsidy.

Commission Adjusted Tariff

399. Based on the COS model and Tariff Model as enumerated above, the tariff proposed by the NPDCL for subsidizing consumer classes has been kept constant with a reduction of Rs.0.05/kWh for HT Category-I: Industrial Consumers and HT Category V: Railway Traction. To eliminate the revenue gap, the energy charges are adjusted upwards for the subsidized consumer classes to the extent of net revenue deficit. Accordingly, It has been ensured that with this adjusted tariff, CPDCL will be able to recover the approved revenue requirement. The “Commission Adjusted Tariff” has accordingly been worked out and is indicated at column 8,9 and 10 of Table 93 below:

Table 93: NPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by NPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
LT01	DOMESTIC									
	Slab 1 (0-50)			1111			1.45			3.69
	Slab 2 (51-100)			339			2.80			3.83
	Slab 3 (101-200)			160			3.05			4.00
	Slab 4 (201-300)			31			4.75			4.75
	Slab 5 (>300)			20			5.50			5.50
LT02	NON-DOMESTIC									
	Slab 1 (0-50)			95			3.85			3.85
	Slab 2 (>50)			234			6.20			6.20
LT03	INDUSTRIAL NORAML									
	Industrial Normal		430265	237		37	3.75		37	3.75
	Industrial Optional				100		3.75	100		3.75
	Pisciculture/Prawn						0.90			0.90

Table 93: NPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by NPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	culture									
	Sugarcane crushing						0.50			0.50
	INDUSTRIAL OPTIONAL									
	SSI Units	57		86	100		3.75	100		3.75
	Seasonal Industries (off season tariff)				100		4.40	100		4.40
LT04	COTTAGE INDUSTRIES		15321	6		10	1.80		10	3.21
LT05	IRRIGATION AND AGRICULTURE									
	With DSM Measures									
	Corporate Farmers & IT Assesses			1			1.00			2.65
	Wet Land Farmers (Holdings >2.5 acre)			6			0.20			2.41
	Dry Land Farmers (Connections > 3 nos.)			1			0.20			2.27
	Wet Land Farmers (Holdings <= 2.5 acre)			99			0.00			2.42
	Dry Land Farmers (Connections <= 3 nos.)			2007			0.00			2.40
	Without DSM Measures									
	Corporate Farmers & IT Assesses			2			2.00			2.85
	Wet Land Farmers (Holdings >2.5 acre)			4			0.50			2.44
	Dry Land Farmers (Connections > 3 nos.)			3			0.50			2.35
	Wet Land Farmers (Holdings <= 2.5 acre)			0			0.20			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0			0.20			0.20
	AGRICULTURE (TATKAL)			32			0.20			2.40
LT06	LOCAL BODIES									

Table 93: NPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by NPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Street Lighting									0.00
	Minor Panchayats			78			1.56			4.50
	Major Panchayats			16			2.08			4.58
	Nagarpalikas & Municipalities (Gr 3)			6			2.74			4.66
	Municipalities (Gr 1&2)			8			3.26			4.72
	Municipalities Selection Special Group			4			3.53			4.74
	Corporations			17			3.79			4.79
	PWS Schemes									
	Minor/ Major Panchayats									
	Upto 2500 units/Yr			35			0.20			4.29
	Above 2500 units/Yr			123			0.50			4.41
	All Nagarpalikas & Municipalities									
	Upto 1000 units		4680	1			3.75			4.59
	More than 1000 units			11		20	4.05		20	4.84
	Municipal Corporations									
	Upto 1000 units		5489	0			4.05			4.63
	More than 1000 units			5		20	4.60		20	4.90
LT07	GENERAL PURPOSE			27			4.00			4.73
LT08	TEMPORARY SUPPLY									
	Temporary Supply to Non-agriculture			0			6.20			6.20
	Temporary Supply to Agriculture			0			2.30			2.30
	HT 132 KV									
HT01	HT-I Indl Segregated	117		734	250		2.75	250		2.70
HT01	Lights & Fans						4.40			4.40
HT01	Colony consumption						4.00			4.00
HT01	Seasonal Industries (off season tariff)				250		3.60	250		3.60

Table 93: NPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by NPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
HT01(b)	HT - I (B) Ferro-alloys						2.45			2.40
HT02	HT-II - Industrial Non Segregated	6		1	250		3.60	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation	146		477			2.36			2.51
HT04(B)	HT -IV B Irrigation & Agriculture			0			2.36			2.36
HT05	HT-V - Railway Traction			371			4.00			3.95
HT06	HT-VI -Colony Supply			65			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				375		6.00	375		6.00
	HT 33KV									
HT01	HT-I Indl Segregated	19		74	230		3.00	230		2.95
HT01	Lights & Fans						4.40			4.40
HT01	Colony consumption						4.00			4.00
HT01	Seasonal Industries (off season tariff)				230		3.80	230		3.80
HT01(b)	HT - I (B) Ferro-alloys						2.45			2.40
HT02	HT-II - Industrial Non Segregated	0		1	230		3.80	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			0			2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			0			2.36			2.36
HT06	HT-VI -Colony Supply			48			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				345		5.70	345		5.70
	HT 11KV									
HT01	HT-I Indl Segregated	98		255	195		3.25	195		3.20
HT01	Lights & Fans						4.40			4.40
HT01	Colony consumption						4.00			4.00
HT01	Seasonal Industries (off season tariff)	2		0	195		4.30	195		4.30
HT01(b)	HT - I (B) Ferro-						2.45			2.40

Table 93: NPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by NPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	alloys									
HT02	HT-II - Industrial Non Segregated	22		72	195		4.30	195		4.30
HT04(A)	HT -IV A Govt Lift Irrigation	31		0			2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			0			2.36			2.36
HT06	HT-VI -Colony Supply			12			4.00			4.00
HT07(A)	Rural co-operatives						0.40			1.98
HT07(B)	Temporary \$				293		6.45	293		6.45

\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs.

Consultation with Government of Andhra Pradesh(GoAP)

400. The tariff determination details along with the changes made for HT Category I: Industrial and HT Category V:Railway Traction were informed to the GOAP The GOAP was informed further that if the tariff proposed for FY2009-10 by NPDCL (with modifications made by the Commission as enumerated in Para 391) is to be maintained, the GOAP will have to pay Rs.1216.99 Cr. subsidy to NPDCL for FY2009-10.
401. In response, the GoAP has informed that it is committed to provide subsidy amount of Rs.1217.00 Cr. under section 65 of the Electricity Act 2003 in the manner specified by the Commission to maintain the current tariff as proposed by NPDCL with modifications as enumerated in Para 391 .
402. The GoAP further informed that it had decided to continue with the “single bulb scheme” for the FY 2009-10. Accordingly, the GoAP conveyed willingness to pay additional subsidy, as per the quantum to be indicated by the Commission, to NPDCL for supplies under this scheme. The details of the subsidy amount agreed to be provided by the GoAP to different consumer categories for FY2009-10 are given in Table 94.

Table 94: NPDCL: GOAP Subsidy for FY2009-10

		(Rs.Cr)
Consumer Category		Subsidy Amount
LT01	Domestic	298.87
LT04	Cottage Industries	0.90
LT05	Agriculture	733.78
LT06	Public Lighting	94.97
LT07	General	1.94
HT04	Irrigation and Agriculture	7.25
HT Others	REC Societies	79.29
Total		1217.00
Figures are rounded		

Retail Supply Tariff

403. The Commission, in accordance with the GoAP decision to provide subsidy to maintain the current tariff schedule with modifications made by the Commission, hereby determines the retail supply tariff for FY2009-10 as per the rates indicated in Table 95 given below.

Table 95:NPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT01	DOMESTIC			
	Slab 1 (0-50)			1.45
	Slab 2 (51-100)			2.80
	Slab 3 (101-200)			3.05
	Slab 4 (201-300)			4.75
	Slab 5 (>300)			5.50
LT02	NON-DOMESTIC			
	Slab 1 (0-50)			3.85
	Slab 2 (>50)			6.20
LT03	INDUSTRIAL NORAML			
	Industrial Normal		37	3.75
	Industrial Optional	100		3.75
	Pisciculture/Prawn culture			0.90
	Sugarcane crushing			0.50
	Poultry Farms with more than 1000 birds. \$\$		37	3.75
	Mushroom production Farms, Rabbit Farms \$\$		37	3.75
	Floriculture in Green-Houses \$\$		37	3.75
	INDUSTRIAL OPTIONAL			
	SSI Units	100		3.75

Table 95:NPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
	Seasonal Industries	100		4.40
LT04	COTTAGE INDUSTRIES		10	1.80
LT05	IRRIGATION AND ARICULTURE			
	With DSM Measures			
	Corporate Farmers & IT Assesses			1.00
	Wet Land Farmers (Holdings >2.5 acre)			0.20
	Dry Land Farmers (Connections > 3 nos.)			0.20
	Wet Land Farmers (Holdings <= 2.5 acre)			0.00
	Dry Land Farmers (Connections <= 3 nos.)			0.00
	Salt Farming Units with CL up to 15HP \$			1.00
	Rural Horticulture Nurseries			1.00
	Without DSM Measures			
	Corporate Farmers & IT Assesses			2.00
	Wet Land Farmers (Holdings >2.5 acre)			0.50
	Dry Land Farmers (Connections > 3 nos.)			0.50
	Wet Land Farmers (Holdings <= 2.5 acre)			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0.20
	AGRICULTURE (TATKAL)			0.20
LT06	LOCAL BODIES			
	Street Lighting			
	Minor Panchayats			1.56
	Major Panchayats			2.08
	Nagarpalikas & Municipalities (Gr 3)			2.74
	Municipalities (Gr 1&2)			3.26
	Municipalities Selection Special Group			3.53
	Corporations			3.79
	PWS Schemes			
	Minor/ Major Panchayats			
	Upto 2500 units/Yr			0.20
	Above 2500 units/Yr			0.50
	All Nagarpalikas & Municipalities			
	Upto 1000 units		20	3.75
	More than 1000 units		20	4.05
	Municipal Corporations			
	Upto 1000 units		20	4.05
	More than 1000 units		20	4.60
LT07(a)	GENERAL PURPOSE			4.00

Table 95:NPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT07(b)	RELIGIOUS PLACES with CL up to 1 kW			
	Slab 1 (0-200)			2.00
	Slab 2 (>200)			4.00
LT08	TEMPORARY SUPPLY			
	Temporary Supply to Non-agriculture			6.20
	Temporary Supply to Agriculture			2.30
	HT 132 KV			
HT01	HT-I Indl Segregated	250		2.70
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	250		3.60
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT05	HT-V -RailwayTraction			3.95
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	375		6.00
	HT 33KV			
HT01	HT-I Indl Segregated	230		2.95
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operartives			
HT07(B)	Temporary \$	345		5.70
	HT 11KV			
HT01	HT-I Indl Segregated	195		3.20
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			2.40

Table 95:NPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff for FY2009-10		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
HT02	HT-II - Industrial Non Segregated	195		4.30
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operatives*			
HT07(B)	Temporary \$	293		6.45
	HT All Voltages			
HT07(C)	Green Power\$\$			6.70
HT07(D)	Composite Public Water Supply Schemes\$\$			0.35
* Determined separately for Siricilla RESCO. \$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs. \$\$ Included in Tariff Schedule.				

404. The Retail Supply Tariff Schedule for NPDCL indicating the retail supply charges applicable for all categories of consumers for FY 2009-10 is given in Annexure-D.

405. The tariff determined in para 403 is contingent on payment of subsidy as agreed by the GoAP. The NPDCL shall keep the Commission informed periodically about the payment of subsidy by the Government.

Administration of Subsidy

406. Subsidy provided by the GOAP is administered as follows:

- a) NPDCL gets the subsidy commensurate to the extent of energy sales volumes approved in this Order and not to cover the additional power purchases made by NPDCL over and above volumes approved in this Order at the instance or with the approval of GoAP, or otherwise.
- b) The subsidy allocation for NPDCL as mentioned in this Order must be paid by the GoAP to NPDCL in monthly installments, in advance.

407. In the context of administration of the subsidy to be paid by the GOAP, NPDCL is directed to;

file the details of actual sales to subsidized categories of consumers for whom the GoAP agreed to pay the subsidy every month and the Commission will monitor the units actually sold by the Licensee vis-à-vis the subsidy provided. At the end of the year, subsidy adjustments will be made based on the consumption of units in respect of various subsidized categories.

CHAPTER-XIV
RETAIL SUPPLY TARIFF DETERMINATION
SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LTD (SPDCL)

Introduction

408. The Commission, after examination of the issues related to determination of retail supply tariff including the objections and suggestions received/heard on filings, has examined the revenue requirement, revenue and revenue gap for determining the retail supply tariff for SPDCL for FY2009-10, as detailed hereunder.

PART-A:REVENUE REQUIREMENT

Revision in Sales Volumes

409. The sales volume of to different consumer categories for FY2009-10 is approved at 12873 MU against 13107 MU filed by SPDCL while incorporating the following two changes;
- a) the volume of sales to LT Agriculture is fixed at 3456 MU against 3592 MU filed by SPDCL for FY2009-10 (Para 297), and
 - b) the volume of sales to HT Lift Irrigation Schemes is fixed at 37 MU against 135 MU filed by SPDCL for FY2009-10 (Para 298).
410. The sales volumes for the remaining consumer categories are approved as proposed by SPDCL as the forecasted sales volumes are found reasonable. The details of sales volumes filed and approved are given in Table 96.

Table 96: SPDCL: Sales Volume for FY2009-10

Voltage and Consumer Category		(MU)	
		Filed by SPDCL	Approved by APERC
LT01	Domestic	3450.59	3450.59
LT02	Non-Domestic	787.35	787.35
LT03	Industrial	828.04	828.04
LT04	Cottage	28.51	28.51
LT05	Agriculture	3591.58	3455.55
LT06	Public Lighting	485.93	485.93
LT07	General	43.08	43.08
LT08	Temporary	1.35	1.35
HT01	Industry, General	2633.77	2633.77
HT01(b)	Industry, Ferro Alloys	0.94	0.94
HT02	Industrial Others	279.40	279.40
HT04	Irrigation & Agricultural	135.09	37.42
HT05	Traction	562.10	562.10
HT06	Colony Lighting	49.85	49.85
HT Others	REC Societies	229.56	229.56
HT Others	Temporary	0.02	0.02
Total	All Categories	13107.15	12873.45

Figures are rounded

Power Purchase Cost

411. The power procurement requirement for SPDCL is computed based on revised sales volumes grossed up with approved distribution losses (Chapter-X) for FY2009-10 at 15562 MU. The power purchase cost for the approved power procurement requirement of 15562 MU is approved at Rs.3385.34 Cr. against Rs.3780.40 Cr. filed by SPDCL(Para 302 to 306). The details are in Annexure-G(iv).

SLDC Cost

412. The fee and charges for State Load Despatch Centre(SLDC) are determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the fee and charge for SLDC services applicable for FY2009-10 and the generation capacity contracted by SPDCL, the SLDC cost is computed and approved at Rs.6.38 Cr. against Rs.8.71 Cr. filed by SPDCL.

Transmission Cost

413. The transmission tariff for intra state transmission is determined based on a separate application for the five year Control Period from 2009-10 to 2013-14. With the transmission tariff applicable for FY2009-10 and generation capacity contracted by SPDCL, the transmission cost is computed and approved at Rs.168.36 Cr. against Rs. 225.78 Cr. filed by SPDCL for FY2009-10.

Distribution Cost

414. The distribution cost for SPDCL is approved as part of the wheeling tariff determination for the Control Period of five years from 2009-10 to 2013-14(Chapter-IX). The net distribution ARR approved for FY2009-10 at Rs.793.51 Cr. is considered as distribution cost against Rs.1038.31 Cr. filed by SPDCL.

PGCIL and ULDC Cost

415. SPDCL filed the expenses related to evacuation of power from Central Generating Stations(CGS) in two forms, to be paid in the form of PGCIL transmission charges and ULDC load dispatch charges. Based on further details made available by SPDCL, both PGCIL and ULDC expenses are approved as filed by SPDCL.

Interest Cost on Consumer Security Deposits

416. The interest cost on consumer security deposit is approved at Rs.35.06 Cr. as filed by the SPDCL for FY2009-10 as this amount is calculated based on Regulation issued for the purpose.

Retail Supply Margin

417. The retail supply margin is provided at Rs.10.55 Cr. for FY2009-10. The amount is calculated at 2 percent on equity portion of the RRB approved for the distribution Business for FY2009-10. SPDCL did not include the retail supply margin in its ARR computations.

Gross ARR

418. With these changes in individual items of ARR, the gross ARR is approved at Rs.4467.53 Cr. against Rs.5156.60 Cr. filed by SPDCL for FY2009-10. The approved ARR is used as the basis for determination of retail supply tariff for FY2009-10. The details of gross ARR amount filed and approved are given in Table 97.

Table 97: SPDCL: Revenue Requirement for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by SPDCL	Approved by APERC
SLDC Expenses	8.71	6.38
Transmission Cost	225.78	168.36
Distribution Cost	1038.31	793.51
Power Purchases	3780.40	3385.34
PGCIL Expenses	62.48	62.48
ULDC Expenses	5.84	5.84
Interest on Consumer Deposits	35.06	35.06
Supply Margin	0.00	10.55
Revenue Requirement	5156.60	4467.53
Figures are rounded		

PART-B:REVENUE AND REVENUE GAP

Tariff Changes

419. Some changes in energy charges and categorization of consumers have been done for FY2009-10 that will have a bearing on revenue from tariff. These changes are as follows;
- a) the energy charge for HT I: Industrial and HT V: Railway Traction has been reduced by Rs.0.05/kWh for FY2009-10. This is to progressively achieve the mandatory objective contained in section 42 of the Electricity Act 2003,
 - b) Rural Horticulture Nurseries have been placed in LT V(A):Agricultural Category with energy charge at Rs.1.00/kWh on request of Government of Andhra Pradesh as submitted by some DISCOMs,
 - c) Salt Farming Units have been placed in LT V(A): Agricultural Category with energy charge at Rs.1.00/kWh, on request of Government of Andhra Pradesh as submitted by some DISCOMs,
 - d) cotton seed oil mills are classified as seasonal industry on request of Government of Andhra Pradesh and as recommended by Licensees, and

- e) A new category has been introduced under LT VII(B):Religious places with connected load up to 1 kW with first 200 units at Rs.2.00/kWh and the balance units at Rs.4.00/kWh in view of continued public representations.

Revenue from Tariff and Other Sources

420. The revenue from sale of energy and other sources from different consumer categories is approved at Rs. 3660.73 cr, against Rs. 3606.34 Cr. filed by SPDCL for FY2009-10 with the following modifications;

- a) reduction in the volume of sales to LT Agriculture and HT Lift Irrigation Schemes compared with the filings,
- b) reduction in the energy charge for HT I: Industrial consumers and HT V: Railway Traction by Rs.0.05/kWh,
- c) increase in non-tariff income to the tune of 35.06 Cr. based on examination of audited accounts and estimate for FY2009-10,
- d) additional revenue at Rs.58.44 Cr. on consumer security deposits as the cost of deposits is recognized as expense item in ARR calculations, and
- e) revenue from trading of electricity is not considered as the same is taken into account in the power purchase cost.

421. The details of total revenue from each category of consumers including the apportioned non-tariff income filed and approved are given in Table 98.

Table 98: SPDCL: Revenue from Sales and Other Sources for FY2009-10

Voltage and Consumer Category		Rs.Cr.	
		Filed by SPDCL	Approved by APERC
LT01	Domestic	1229.37	1261.36
LT02	Non-Domestic	500.07	513.31
LT03	Industrial	342.30	351.26
LT04	Cottage	6.12	6.27
LT05	Agriculture	56.27	56.18
LT06	Public Lighting	85.74	87.88
LT07	General	18.15	18.63
LT08	Temporary	0.85	0.87
HT01	Industry, General	924.71	937.18
HT01(b)	Industry, Ferro Alloys	0.24	0.25
HT02	Industrial Others	147.58	151.47
HT04	Irrigation & Agricultural	33.90	11.16
HT05	Traction	232.46	235.66
HT06	Colony Lighting	20.65	21.19
HT Others	REC Societies	7.90	8.03
HT Others	Temporary	0.01	0.01
Total	All Categories	3606.34	3660.73

Figures are rounded

Revenue Gap

422. With the approved gross ARR and revenue for FY2009-10, SPDCL will have a revenue deficit at Rs.806.80 Cr. against Rs.1219.25 Cr. filed by SPDCL. The details of the ARR, Revenue and Revenue Gap for FY2009-10 filed and approved are given in Table 99.

Table 99: SPDCL: Revenue Gap for FY2009-10

ARR Item	(Rs.Cr.)	
	Filed by SPDCL	Approved by APERC
1.Revenue Requirement	5156.60	4467.53
2.Revenue	3937.35	3660.73
Revenue from Sale	3606.34	3660.73
Revenue from Trading,	331.01	0.00
Revenue Gap (1-2)	1219.25	806.80
Figures are rounded		

PART-C:RETAIL SUPPLY TARIFF FOR FY2009-10

General Approach

423. With the view that SPDCL shall be provided the revenue to meet the approved ARR to be able to serve the consumers, it has been decided to provide the ways and means to recover the approved ARR for FY2009-10. To achieve this objective, the retail supply tariff has been adjusted to recover the approved revenue utilizing a)Cost of service model and b)Tariff model.

Cost of Service (COS)

424. As per the earlier practice, the gross ARR is apportioned among consumer categories based on embedded cost model to derive the total cost and unit cost (cost of service) for each consumer category. Based on evening peak, consumer class cost and unit cost of service for all major possible consumer categories have been arrived for FY2009-10. The cost allocated among consumer classes is the basis for the determination of the tariff for FY2009-10. The details of COS for SPDCL are given in Annexure-L.

Tariff Model

425. After apportioning the cost and revenue to different consumer classes, the subsidizing and subsidized consumer classes are identified at aggregate level. In this framework a consumer class is;

- a. subsidizing if the revenue from sale of electricity and other sources is more than the cost apportioned to it, and
 - b. subsidized if the revenue from sale of electricity and other sources is less than the cost apportioned to it.
426. The sum of revenue in excess of cost from subsidizing consumer classes (cross subsidy) is allocated to subsidized consumer classes in proportion to their contribution to overall revenue gap. The net revenue deficit for each subsidized consumer class is computed after allocation of the cross subsidy.

Commission Adjusted Tariff

427. Based on the COS model and Tariff Model as enumerated above, the tariff proposed by the SPDCL for subsidizing consumer classes has been kept constant with a reduction of Rs.0.05/kWh for HT Category-I: Industrial Consumers and HT Category V: Railway Traction. To eliminate the revenue gap, the energy charges are adjusted upwards for the subsidized consumer classes to the extent of net revenue deficit. Accordingly, it has been ensured that with this adjusted tariff, CPDCL will be able to recover the approved revenue requirement. The “Commission Adjusted Tariff” has accordingly been worked out and is indicated at column 8,9 and 10 of in Table 100 below:

Table 100: SPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by SPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
LT01	DOMESTIC									
	Slab 1 (0-50)			862			1.45			1.94
	Slab 2 (51-100)			1032			2.80			3.23
	Slab 3 (101-200)			961			3.05			3.42
	Slab 4 (201-300)			291			4.75			4.75
	Slab 5 (>300)			305			5.50			5.50
LT02	NON-DOMESTIC									
	Slab 1 (0-50)			70			3.85			3.85
	Slab 2 (>50)			717			6.20			6.20
LT03	INDUSTRIAL NORAML									
	Industrial Normal		1162998	706		37	3.75		37	3.75
	Industrial Optional				100		3.75	100		3.75
	Pisciculture/Prawn culture			114			0.90			0.90

Table 100: SPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by SPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Sugarcane crushing						0.50			0.50
	INDUSTRIAL OPTIONAL									
	SSI Units		6	8	100		3.75	100		3.75
	Seasonal Industries (off season tariff)				100		4.40	100		4.40
LT04	COTTAGE INDUSTRIES		34837	29		10	1.80		10	2.58
LT05	IRRIGATION AND AGRICULTURE									
	With DSM Measures									
	Corporate Farmers & IT Assesses			17			1.00			2.04
	Wet Land Farmers (Holdings >2.5 acre)			56			0.20			1.71
	Dry Land Farmers (Connections > 3 nos.)			21			0.20			1.72
	Wet Land Farmers (Holdings <= 2.5 acre)			46			0.00			1.63
	Dry Land Farmers (Connections <= 3 nos.)			3089			0.00			1.63
	Without DSM Measures									
	Corporate Farmers & IT Assesses			0			2.00			2.00
	Wet Land Farmers (Holdings >2.5 acre)			0			0.50			0.50
	Dry Land Farmers (Connections > 3 nos.)			0			0.50			0.50
	Wet Land Farmers (Holdings <= 2.5 acre)			0			0.20			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0			0.20			0.20
	AGRICULTURE (TATKAL)			228			0.20			1.71
LT06	LOCAL BODIES									

Table 100: SPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by SPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	Street Lighting									
	Minor Panchayats			88			1.56			3.41
	Major Panchayats			48			2.08			3.64
	Nagarpalikas & Municipalities (Gr 3)			12			2.74			3.89
	Municipalities (Gr 1&2)			10			3.26			4.10
	Municipalities Selection Special Group			12			3.53			4.20
	Corporations			37			3.79			4.31
	PWS Schemes									
	Minor/ Major Panchayats									
	Upto 2500 units/Yr			143			0.20			2.90
	Above 2500 units/Yr			82			0.50			3.02
	All Nagarpalikas & Municipalities									
	Upto 1000 units		6219	4		20	3.75		20	4.03
	More than 1000 units		4630	32		20	4.05		20	4.40
	Municipal Corporations									
	Upto 1000 units		1965	2		20	4.05		20	4.18
	More than 1000 units		2233	15		20	4.60		20	4.62
LT07	GENERAL PURPOSE			43			4.00			4.35
LT08	TEMPORARY SUPPLY									
	Temporary Supply to Non-agriculture			1			6.20			6.20
	Tempoary Supply to Agriculture						2.30			2.30
	HT 132 KV									
HT01	HT-I Indl Segregated	102		534	250		2.75	250		2.70
HT01	Lights & Fans			0			4.40			4.40
HT01	Colony consumption			6			4.00			4.00
HT01	Seasonal Industries (off season tariff)				250		3.60	250		3.60
HT01(b)	HT - I (B) Ferro-						2.45			2.40

Table 100: SPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by SPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
	alloys									
HT02	HT-II - Industrial Non Segregated				250		3.60	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			37			2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture						2.36			2.36
HT05	HT-V - Railway Traction			562			4.00			3.95
HT06	HT-VI -Colony Supply						4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				375		6.00	375		6.00
	HT 33KV									
HT01	HT-I Indl Segregated	242		1244	230		3.00	230		2.95
HT01	Lights & Fans			3			4.40			4.40
HT01	Colony consumption			3			4.00			4.00
HT01	Seasonal Industries (off season tariff)				230		3.80	230		3.80
HT01(b)	HT - I(B) Ferro-alloys						2.45			2.40
HT02	HT-II - Industrial Non Segregated	5		13	230		3.80	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation						2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture						2.36			2.36
HT06	HT-VI -Colony Supply			1			4.00			4.00
HT07(A)	Rural co-operatives									
HT07(B)	Temporary \$				345		5.70	345		5.70
	HT 11KV									
HT01	HT-I Indl Segregated	235		824	195		3.25	195		3.20
HT01	Lights & Fans			18			4.40			4.40
HT01	Colony consumption			2			4.00			4.00
HT01	Seasonal Industries (off season tariff)				195		4.30	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			1			2.45			2.40

Table 100: SPDCL: Tariff Filed and Commission Adjusted Tariff for FY2009-10

Consumer Category		Capacity and Sales Approved by APERC			Tariff Filed/Used by SPDCL in Computing the Revenue for FY2009-10			Commission Adjusted Tariff to Recover Approved ARR for FY2009-10		
		MVA	HP	Units, MU	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit	Rs/ kVA/ Month	Rs/ HP/ Month	Energy Rs./ Unit
1		2	3	4	5	6	7	8	9	10
HT02	HT-II - Industrial Non Segregated	95		266	195		4.30	195		4.30
HT04(A)	HT -IV A Govt Lift Irrigation		105194				2.36			2.36
HT04(B)	HT -IV B Irrigation & Agriculture		574	0			2.36			2.36
HT06	HT-VI -Colony Supply			49			4.00			4.00
HT07(A)	Rural co-operatives						0.21			1.56
HT07(B)	Temporary \$			0	293		6.45	293		6.45

\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs.

Consultation with Government of Andhra Pradesh(GoAP)

428. The tariff determination details along with the changes made for HT Category I: Industrial and HT Category V:Railway Traction were informed to the GOAP The GOAP was informed further that if the tariff proposed for FY2009-10 by SPDCL (with modifications made by the Commission as enumerated in Para 419) is to be maintained, the GOAP will have to pay Rs.806.80 Cr. subsidy to SPDCL for FY2009-10.
429. In response, the GoAP has informed that it is committed to provide subsidy amount of Rs.806.80 Cr. under section 65 of the Electricity Act 2003 in the manner specified by the Commission to maintain the current tariff as proposed by SPDCL with modifications enumerated in Para 419.
430. The GoAP further informed that it had decided to continue with the “single bulb scheme” for the FY 2009-10. Accordingly, the GoAP conveyed willingness to pay additional subsidy, as per the quantum to be indicated by the Commission, to SPDCL for supplies under this scheme. The details of the subsidy amount agreed to be provided by the GoAP to different consumer categories for FY2009-10 are given in Table 101.

Table 101: SPDCL: GOAP Subsidy for FY2009-10

		(Rs.Cr)
Consumer Category		Subsidy Amount
LT01	Domestic	122.36
LT04	Cottage Industries	2.23
LT05	Agriculture	560.19
LT06	Public Lighting	89.52
LT07	General	1.53
HT Others	REC Societies	30.97
Total		806.80
Figures are rounded		

Retail Supply Tariff

431. The Commission, in accordance with the GoAP decision to provide subsidy to maintain the current tariff schedule with modifications made by the Commission, hereby determines the retail supply tariff for FY2009-10 as per the rates indicated in Table 102 given below.

Table 102:SPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff After Provisioning of GOAP Subsidy		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT01	DOMESTIC			
	Slab 1 (0-50)			1.45
	Slab 2 (51-100)			2.80
	Slab 3 (101-200)			3.05
	Slab 4 (201-300)			4.75
	Slab 5 (>300)			5.50
LT02	NON-DOMESTIC			
	Slab 1 (0-50)			3.85
	Slab 2 (>50)			6.20
LT03	INDUSTRIAL NORAML			
	Industrial Normal		37	3.75
	Industrial Optional	100		3.75
	Pisciculture/Prawn culture			0.90
	Sugarcane crushing			0.50
	Poultry Farms with more than 1000 birds. \$\$		37	3.75
	Mushroom production Farms, Rabbit Farms \$\$		37	3.75
	Floriculture in Green-Houses \$\$		37	3.75
	INDUSTRIAL OPTIONAL			
	SSI Units	100		3.75
	Seasonal Industries	100		4.40

Table 102:SPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff After Provisioning of GOAP Subsidy		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
LT04	COTTAGE INDUSTRIES		10	1.80
LT05	IRRIGATION AND AGRICULTURE			
	With DSM Measures			
	Corporate Farmers & IT Assesses			1.00
	Wet Land Farmers (Holdings >2.5 acre)			0.20
	Dry Land Farmers (Connections > 3 nos.)			0.20
	Wet Land Farmers (Holdings <= 2.5 acre)			0.00
	Dry Land Farmers (Connections <= 3 nos.)			0.00
	Salt Farming Units with CL up to 15HP \$			1.00
	Rural Horticulture Nurseries			1.00
	Without DSM Measures			
	Corporate Farmers & IT Assesses			2.00
	Wet Land Farmers (Holdings >2.5 acre)			0.50
	Dry Land Farmers (Connections > 3 nos.)			0.50
	Wet Land Farmers (Holdings <= 2.5 acre)			0.20
	Dry Land Farmers (Connections <= 3 nos.)			0.20
	AGRICULTURE (TATKAL)			0.20
LT06	LOCAL BODIES			
	Street Lighting			
	Minor Panchayats			1.56
	Major Panchayats			2.08
	Nagarpalikas & Municipalities (Gr 3)			2.74
	Municipalities (Gr 1&2)			3.26
	Municipalities Selection Special Group			3.53
	Corporations			3.79
	PWS Schemes			
	Minor/ Major Panchayats			
	Upto 2500 units/Yr			0.20
	Above 2500 units/Yr			0.50
	All Nagarpalikas & Municipalities			
	Upto 1000 units		20	3.75
	More than 1000 units		20	4.05
	Municipal Corporations			
	Upto 1000 units		20	4.05
	More than 1000 units		20	4.60
LT07(a)	GENERAL PURPOSE			4.00
LT07(b)	RELIGIOUS PLACES with CL up to 1 kW			

Table 102:SPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff After Provisioning of GOAP Subsidy		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
	Slab 1 (0-200)			2.00
	Slab 2 (>200)			4.00
LT08	TEMPORARY SUPPLY			
	Temporary Supply to Non-agriculture			6.20
	Temporary Supply to Agriculture			2.30
	HT 132 KV			
HT01	HT-I Indl Segregated	250		2.70
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	250		3.60
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	250		3.60
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT05	HT-V -Railway Traction			3.95
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operatives			
HT07(B)	Temporary \$	375		6.00
	HT 33KV			
HT01	HT-I Indl Segregated	230		2.95
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	230		3.80
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	230		3.80
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operatives			
HT07(B)	Temporary \$	345		5.70
	HT 11KV			
HT01	HT-I Indl Segregated	195		3.20
HT01	Lights & Fans			4.40
HT01	Colony consumption			4.00
HT01	Seasonal Industries	195		4.30
HT01(b)	HT - I(B) Ferro-alloys			2.40
HT02	HT-II - Industrial Non Segregated	195		4.30

Table 102:SPDCL-Rates for Retail Supply Tariff for FY2009-10

Consumer Category		Commission Determined Tariff After Provisioning of GOAP Subsidy		
		Rs/KVA/ Month	Rs./HP/ Month	Energy, Rs/Unit
1		2	3	4
HT04(A)	HT -IV A Govt Lift Irrigation			2.36
HT04(B)	HT -IV B Irrigation & Agriculture			2.36
HT06	HT-VI -Colony Supply			4.00
HT07(A)	Rural co-operatives			
HT07(B)	Temporary \$	293		6.45
	HT All Voltages			
HT07(C)	Green Power\$\$			6.70
HT07(D)	Composite Public Water Supply Schemes\$\$			0.35
*Determined separately for Kuppam				
\$ Details are given for temporary categories which are used in calculations. The actual tariff is multiple of applicable HT of tariffs.				
\$\$ Included in Tariff Schedule.				

432. The Retail Supply Tariff Schedule for SPDCL indicating the retail supply charges applicable for all categories of consumers for FY 2009-10 is given in Annexure-D.
433. The tariff determined in Para 403 is contingent on payment of subsidy as agreed by the GoAP. The SPDCL shall keep the Commission informed periodically about the payment of subsidy by the Government.

Administration of Subsidy

434. Subsidy provided by the GOAP is administered as follows:
- a. SPDCL gets the subsidy commensurate to the extent of energy sales volumes approved in this Order and not to cover the additional power purchases made by SPDCL over and above volumes approved in this Order at the instance or with the approval of GoAP, or otherwise.
 - b. The subsidy allocation for SPDCL as mentioned in this Order must be paid by the GoAP to SPDCL in monthly installments, in advance.
435. In the context of administration of the subsidy to be paid by the GOAP, SPDCL is directed to;
- file the details of actual sales to subsidized categories of consumers for whom the GoAP agreed to pay the subsidy every month and the Commission will monitor the units actually sold by the Licensee vis-à-vis the subsidy provided. At the end of the year, subsidy adjustments will be made based on the consumption of units in respect of various subsidized categories.*

CHAPTER-XV GENERAL ISSUES RELATED TO FILINGS

Introduction

436. During the proceedings on tariff filings made by four distribution and retail supply Licensees for the purpose of determination of wheeling charges for FY2009-10 to 2013-14 and retail supply tariff for FY2009-10, several objections and suggestions were received from different persons. These objections/suggestions are in general related to operational and tariff aspects of distribution and retail supply of electricity. In addition to these objections/suggestions, some additional issues are identified in course of proceedings. Some of the important issues are briefly discussed hereunder.

PART-A:TARIFF RELATED ISSUES

Method to Identify Charitable Institutions for Categorization

437. Some objectors have pointed out that the Licensees are classifying the charitable institutions arbitrarily and requested for issue of clarifications. The objectors essentially requested for;
- a) Clarification on method employed to identify that a charitable institution is on no profit basis, and
 - b) Expand the scope of the definition to cover all activities once an institution is identified as charitable.

As per the current tariff classification, 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) are classified under LT Category VII: General tariff with energy charge at Rs.4.00/unit. It is felt that there is a need to review the method and process adopted/followed by Licensees as these provisions are likely to be misused in several ways. In this context, the Licensees are directed to

File the billing procedure followed, concept used and the method followed to identify charitable institutions by October 30, 2009, in order to evolve uniform foolproof mechanisms to ensure that this facility becomes available only to genuine charitable institutions, that too only for those activities of these organizations which are genuinely charitable in nature. The Licensees shall also provide the list and details of all the consumers along with consumption details for FY 2008-09 to whom this tariff is being applied.

Religious Places

438. Religious places with connected load upto 1 kW have been categorized separately into LT-VII(B):Religious Places. To achieve the objectives of introducing this category, the Licensees are directed to ensure that;

- a) *All the managements of the religious places, especially in rural areas, should be informed of the change in tariff and persuade others to obtain regular connections.*
- b) *Completion of load survey of all religious places to identify the consumers with connected load up to 1 kW by July 30, 2009.*
- c) *Reclassification of the eligible consumers under LT VII(B) and the adjustment of bills already issued for the months of FY2009-10. The Licensees shall file the compliance report on these directives by the August 30, 2009.*

Minimum Charges for Domestic Consumers

439. Some consumers and objectors have represented that the minimum charges levied based on connected load are rather arbitrary and leading to unintended outcomes. At present, the consumers with single phase connection are classified into two categories based on connected load, a) upto 250 Watts with a minimum charge of Rs.25/month and b) above 250 Watts with a minimum charge of Rs.50/month. The objectors have represented that if both consumers consume only say 10 units, the consumer with connected load less than 250 Watts pays only Rs.25 and the consumer with connected load more than 250 Watts pays Rs.50.

The tariff for this category of consumers in the present structure, especially the minimum charge conditions, exists for more than a decade. The single bulb subsidy scheme operated by the Government of Andhra Pradesh is also based on such tariff structure. The Tariff policy announced by the Government of India contemplates special treatment for the consumers below the poverty line. Given these numerous issues to be addressed for domestic consumer category, it is decided to examine this issue in future tariff orders. In this context the Licensees are directed to:

File the approach paper on these slabs in the context of operation of single bulb supply scheme and tariff policy with regard to BPL consumers by November 30,2009.

Tariff Slabs in LT Category II: Non-Domestic

440. Some consumers and objectors expressed the view that there are only two slabs in LT II: Non domestic tariff with steep increase in energy charge from first slab up to 50 units to second slab for above 50 units from Rs.3.85/kWh to Rs.6.20/kWh. They further stated that there should be more slabs for the benefit of small consumers such as pan shops, hair cutting saloons, etc. whose total consumption is very limited.

The tariff structure for this category of consumers shall be examined afresh in the context of consumer requests. To address this issue, the Licensees are directed to;

File an approach paper on tariffs for LT Category II: Non Domestic consumers duly indicating the number of slabs, charges by September 30, 2009.

Street Lighting in Industrial Areas under Management of APIIC

441. The GOAP has transferred some powers and functions of the Local Bodies to the APIIC in select industrial areas. The energy consumption for street lighting in these areas is being billed under LT Category II: Non-Domestic instead under LT Category VI: Street Lighting. The representative of APIIC requested that the energy consumption on account of street lighting in these areas shall be billed under LT Category VI: street lighting tariff.

Though the energy is used for street lighting, the industrial areas are not for common public purpose at large as is the case with other local bodies that maintain civic amenities. To examine the issue further, the Licensees are directed;

To file the billing procedure adopted for billing the street lighting in the industrial areas run by APIIC. The Licensees shall also file the consumption for FY 2008-09 from these industrial areas on account of street lighting in consultation with APIIC. Further, the Licensees shall file the information with regard to notifications, if any, conferring the powers on these industrial areas under the relevant provisions of AP Gram Panchayats Act / AP Municipalities Act. The Licensees shall file the information by September 30, 2009.

Tariff for Hoardings

442. Some suggestions have been received to bring hoardings and malls under a separate tariff category as they consume power only during peak hour period when the power purchase cost is very high.

Since the suggestion made by the objectors can be examined based only on the consumption profile of identified consumers, the Licensees are directed;

To examine the consumption profile of the hoardings and shopping malls across the time and seasons and file a summary report on this issue by October 30, 2009 along with any suggestions on the tariff for future years.

Waiver of Fixed Charges for fruit processing industry

443. Some objectors have expressed the view that the fruit processing industry, though classified as seasonal industry, often the units are run throughout the year. The objectors' request is to charge only the energy charges under LT III: Category for fruit processing industry.

At present, the fruit processing industry is given the benefit of declaring themselves as seasonal industry as per the existing tariff orders. In case the units are run during the off season, the benefits of seasonal industry are not available. When a plant is run during off season, the distinction between seasonal and regular will not exist and the consumers shall have to pay the tariff as applicable for regular consumers. A consumer cannot expect the concessions available to the seasonal industries and at the same time ask for concessions during “Non-season” period. Accordingly, the request for charging only the energy charges is not accepted.

GHIAL (GMR- Hyderabad International Airport)

444. The consumer requested for;

- a) A new category should be created for Infrastructure Industry (Greenfield project) such as GHIAL airport for application of more favorable tariff without cross subsidization, i.e. cost reflective tariff, in view of;

The airports are core infrastructure projects of national importance and if a separate category cannot be made for them, they should be considered as industrial establishments. The entire GHIAL Airport should be considered as Greenfield project for supply of electricity.

- b) In the absence of such separate category, the GHIAL shall be billed only under HT-I: Industry instead of under HT-II:Non-Industrial in view of;

The primary nature of business is to provide infrastructure facility which is not commercial activity. The Airport operations are similar to factories established under Factories Act. The Electricity Act, 2003 do not specify the establishment needs to be registered under Factories Act to be eligible under the tariff for Large Industrial Power.

- c) Even if the supply to airport is treated as commercial, application of tariff shall be done as per the end use of electricity such as Commercial and Airport Operations in view of;

Only 15 percent of consumption is on account of commercial activities in the Airport and the balance 85 percent is on account of Airport Operations.

With regard to categorization of consumers and billing as per end use (commercial or airport operations), whether under HT-I:Industrial or HT-II:Non-Industrial, the existing classification needs to be followed. As GHIAL does not meet the criteria to be classified under HT Category I:Industrial and thus the request for inclusion of GHIAL in HT-I: Industrial Category for tariff purposes is not accepted. With regard to request for mixed billing, there is no separate category for mixed billing as per existing tariff classification.

Time of Day (TOD) Tariff

445. Some objectors have pointed out that the power purchase cost in markets, i.e. from sources such as power exchange, direct injectors (CPPs), traders and UI, has become very expensive at more than Rs.7.00/unit and the Licensees are buying costly power to meet the peak requirement and incurring huge cost on additional power purchases. They suggested that suitable mechanisms such as “Time of Day billing” should be evolved to compensate the Licensees for higher power purchase costs during peak periods. In this context the Licensees are directed;

To prepare an approach paper on Time of Day tariffs duly considering such tariffs in other states and file the same by September 30, 2009. The Licensees are further directed to file the TOD tariffs in the next retail supply tariff filings based on the approach paper filed in this regard.

PART-B:SALES RELATED ISSUES

Agricultural Consumption Estimates

446. Several objectors raised concerns with regard to estimates of volume of sales for agriculture being projected by the Licensees. They expressed that in the absence of methodologies for accurate measurement of such volumes, the estimates appear to be on the high side. They pointed out that almost all agricultural pump sets connected to low tension network are not metered.

In this context, the GoAP has already constituted a Committee with CMD, APTRANSCO and CMDs of DISCOMS to suggest alternative methodology for accurate assessment of agricultural consumption. It is hoped that the Committee will expedite the submission of its report to enable more accurate assessment of the agricultural consumption. Meanwhile, the Licensees are directed to;

File the monthly agricultural consumption estimate by 25th of every month for the previous month, based on existing guidelines.

Category changes

447. Rural Horticulture Nurseries and Salt farming units have been classified into LT V(A): Agriculture in this tariff order. And a new sub category LT-VII(b):Religious places has been introduced. In view of limited information available from Licensees, the revenue impact of these changes could not be quantified for FY2009-10. The Licensees are directed to;

Furnish the sales to these categories of consumers for the six months period from 01-04-09 to 30-09-09 by October 30, 2009 to enable the quantification of revenue for FY2009-10.

Curbing misuse of Electricity

448. It is observed that some consumers who have taken electrical connection under domestic category are utilizing the electricity for operating applications which are commercial in nature. Such use of electricity, even though actually being used as “Commercial”, continues to get billed under “Domestic” category. Such practices by consumers are clearly in contravention of the provisions of the Electricity Act / Regulations/ Tariff Order and lead to loss of revenue to the Discoms.

To curb such tendencies of unauthorized/ clandestine use of electricity by consumers and to protect the revenues provided to the Licensees in the Tariff Order, the Licensees are directed;

To conduct intensive verification of Domestic consumer connections, particularly in areas prone for such malpractices. The Licensees should launch the verification campaign in a systematic manner so that all such services are covered in a reasonable time frame.

PART-C:ISSUES RELATED TO CONSUMER SERVICE

Payment of Compensations in case of fatal accidents

449. During the public hearings, it has been brought to the notice that ;

- a) The Licensees are not paying the compensations properly in the event of the electrical accidents which take place due to the failure on the part of the Licensees.
- b) The present amounts of compensations for animals of economic importance and humans are very meager and the same need to be increased.
- c) Licensees are not responding properly for payment of compensations in the event of;
 - i. electronic equipment of the households of a village/street got burnt due to electric short circuits
 - ii. the animals of economic importance/humans of the village got electrocuted due to snapped live wire/falling of High Tension wire on Low Tension wire etc.,

The Licensees need to act quickly with a ‘human face’ when such incidents take place. The Licensees have to chalk out a cogent and viable plan of action to adhere to the appropriate safety standards and to work out a transparent procedure for determination and payment of compensations in the event of electrical accidents.

The Licensees are directed;

- a) ***To post the month wise details of the ex-gratia/compensations paid to the persons affected in the accidents, on official website.***
- b) ***To file the detailed reports within seven days (duly posting the same on official website) on the incidents;***

- i. *where the electronic equipment of the house holds of a village/street got burnt due to high voltages.*
 - ii. *Where the animals of economic importance/humans of the village got electrocuted due to snapped live wire/falling of High Tension wire on Low Tension wire etc,*
- c) *The Licensees shall examine the requests of the objectors for increasing the amounts of ex-gratia for loss of animals of economic importance and humans and submit a report with the details of possible increases in the amounts by September 30, 2009.*

Supply to Rural households

450. Some objectors brought to the notice that the power supply in the rural areas is often not continuous and are subject to frequent interruptions. They even objected for collection of minimum charges without proper supply to rural areas. The Licensees should take necessary steps to ensure reliable power supply to rural households.

Availability of Documents in Telugu

451. Some objectors have stated that some of the important documents like agreements, General Terms and Conditions of Supply (GTCS) etc., are not available in Telugu. They further stated that these documents, even in English, are not available at some of the Divisional Offices. In this context, the Licensees are directed;

To make available all the important documents like agreements, General Terms and Conditions of Supply (GTCS) etc., in Telugu immediately and to make available copies of these documents both in English and Telugu at all the section offices/Customer Service Centers. The copies shall also be posted on their websites. The compliance report shall be submitted by September 30, 2009.

Replacement of failed Distribution Transformers (DTRs)

452. Some objectors expressed that in many occasions, farmers are making all the arrangements (including the transportation), for replacement of failed DTRs that serve the agricultural loads. They further expressed that Licensees are not maintaining sufficient stock of DTRs, sufficient number of vehicles for transportation of DTRs and allotting the DTRs in an arbitrary manner. In this context, the Licensees are directed:

To 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.

PART-D:ISSUES RELATED TO LICENSEE FINANCES

Fuel Surcharge Adjustment

453. To enable the Licensees to compute the FSA amounts, the adopted sales and station wise power purchases are given at Annexure H(i) to H(v) and Annexure E(iii)

respectively. The details of Fixed Charges, Variable Charges, Incentives, Income Tax and other charges are provided at Annexure G to G(iv). The state wide weighted average figures have been provided (month wise/quarter wise) for the FY 2009-10 at Annexure G (v). To monitor the fuel cost variations, and to calculate FSA adjustments at a future date, in the context of the costs adopted in this tariff order as referred to in Para 300 to 306, the Licensees are directed:

To file category wise actual sales and station wise actual power purchases for all sources including details of Fixed Charges, Variable Charges, Incentives, Income Tax and other charges, if any, within 21 days from the close of every month.

Notice Period for Temporary Reduction of Contracted Demand

454. Some consumers have requested for reducing the notice period for temporary reduction in the contracted demand with the Licensees. The issue is related to terms and conditions of supply that affects all HT consumers and revenues of the Licensees and accordingly it is decided to examine this as a general issue outside the current tariff order. The Licensees are directed:

To file the views on the issue relating to notice period for temporary reduction of Contracted Demand along with other conditions that govern the aspect of temporary reduction of Contracted Demand, by July 30, 2009.

Funds from Central Schemes

455. The Licensees are utilizing funds from different schemes operated by Government of India and the Commission expects the Licensees to utilize such funds to the fullest extent. To enable the Commission to periodically review such utilization, the Licensees are directed to;

Submit half-yearly reports by 31st of October and by 30th of April, for the six month periods ending 30th September and 31st March respectively with the details of scheme wise utilization of such funds.

Connection Charges for LT Category II: Non-Domestic

456. Some consumers and objectors expressed that the amounts to be paid in the form of development charges by new consumers with a demands of less than 1 kW, under LT II:Non-Domestic category, are very high and are acting as a disincentive for applying electrical connection. To facilitate the small establishments to have the electrical connection, the Licensees are directed:

To extend the facility to pay the development charges, on request of the consumers, in four equal quarterly installments by commercial establishments with loads below 500 Watts.

PART-E:ISSUES RELATED TO DISTRIBUTION OF ELECTRICITY

Safety Aspects in Distribution Networks

457. Some objectors and consumers expressed concern that people are losing lives in electrical accidents due to laying of stay wires without guy insulators, laying of lines across the roads without guarding, HT/LT lines without maintaining required clearances, loose and drooping or snapping wires, absence of adequate ground clearances, etc,. Some objectors have suggested the checking the ground clearance whenever a new layer of road is laid as ground clearance is reduced due to formation of new layers that cause accidents. To address these numerous issues related to safety aspects in distribution network, the Licensees are directed:

To designate an Officer not below the rank of Divisional Engineer at each circle as 'Safety Officer' and shall be made responsible for implementing all safety standards as per I.E Rules/Safety standards as specified by CEA. The Safety Officer shall inspect all electrical installations to prepare a detailed proposal to rectify any short comings noticed or brought to his notice to ensure that the electrical accidents do not take place.

Single Phase HVDS transformers

458. The following issues related to safety aspects have been noted during the field inspections of HVDS implemented by Licensees.
- a) Most of the fatal accidents are happening due to sub-standard construction practices. Mostly these accidents are occurring in the single phase HVDS distribution network.
 - b) The Licensees have not provided neutral wire (return conductor) from 33/11 kV sub-station for all single-phase transformers. The Licensees are not laying HT neutral wire from sub-station along the line route, but instead the neutral is being provided locally by means of a local earth pit. Technically, it means, the earth is being used as return conductor.
 - c) The Licensees are not following the Construction Standard practices which they are obliged to follow as per the IE Rules, which contemplate providing of 3 separate earth pits for distribution transformer installations.
 - d) The Licensees are providing only one earth pit to connect the neutral of Single phase transformer, that too without providing HV neutral from 33/11 kV SS. This is not only in violation of the IE Rules, but also blatant deviation of the overall scope of the scheme as approved.

After critical examination of important safety issues brought out above, the Commission would like to reiterate that utmost importance should be given to safety related issues by the Licensees and that the Licensees should never compromise on the standards to be followed in their construction/operational practices, as these are not only statutory requirements but also involve safety of human lives. The Licensees are directed;

To run neutral wire from 33/11 kV SS to all single phase transformers both existing and new installations without resorting to use of earth as a return conductor. Further the Licensees are directed to strictly implement earthing practices as per 61(1)(a), 67(1A) and 92 of IE Rules, 1956 and provide three earth pits as per the prescribed construction standards. The Licensees shall file half yearly reports by 31st October and 30th April for periods ending 30th September and 31st March respectively.

Energy Audits

459. The loss reduction trajectory fixed in this order is applicable for 5 years period from FY2009-10 to 2013-14. The Licensees are expected to achieve the loss reduction specified and are directed:

To conduct circle wise energy audit and make full scale efforts to achieve the approved loss reduction trajectory.

PART-F: OTHER ISSUES

Implementation of Energy Conservation Act

460. The Government of India (GOI) passed Energy Conservation Act, 2001 (No. 52 of 2001) to promote Energy Conservation and use of energy efficiently. The Energy Conservation Act has to be implemented from April 2007 and makes it mandatory for power utilities sector to have energy audits and employ energy managers in industries and commercial establishments.

The National Electricity Policy (NEP) clause 5.9 mentioned about energy conservation and states that periodic energy audits are compulsory for power intensive industries. It also stated that other industries may also be encouraged to adopt energy audit and energy conservation measures. The clause 5.9.6 of NEP states that the Regulatory Commissions should ensure adherence to energy efficiency standards by utilities. In this context, the Licensees are directed;

- a) To designate Energy Managers and Energy auditors for efficient use of energy and its conservation. The Energy managers and Energy auditors shall conduct periodic energy audit and submit a report. The report shall include the reasons for inefficient use of energy and recommendations to conserve and improve energy efficiency. The report shall also furnish the the present status and proposed action plan.*
- b) To take up publicity campaigns, at minimum possible costs, to 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 at the end of each quarter.*

Consumer Choice to buy Meters

461. At present, the Licensees are procuring and arranging the meters for consumers at the time of releasing supply and also when the need arises to replace the existing

meter. The technology for meters is well established with several domestic and international manufacturers making their meters available in the retail market. In these circumstances, it is desirable that the consumers shall be able to procure the meters of their choice from the market. The process involves the following steps;

- a) Licensees may prepare a list of meters with technical specifications for direct purchase by consumers.
- b) Licensees may also prepare a list of approved manufacturers who supply the specified meters for the convenience of consumers.
- c) Licensees may arrange the testing of the meter procured by consumers in their laboratories before installing the same on consumer premises.

To introduce the facility for consumers to procure the meters of their choice, the Licensees are directed;

To study the practices in other states and evolve a procedure for consumers to procure the meters fulfilling the prescribed technical specifications from a list of approved manufacturers.

Entry into Other Businesses

462. Several consumers and objectors have stated that the Licensees may enter into other businesses so that they can get additional revenue that leads to minimize the tariff burden on consumers. The Licensees may examine the following sources, and any other avenues, for additional revenue;

- a. Entry into cable network business
- b. Hoardings in their spaces
- c. Leasing of lines for telecom operations
- d. Leasing of vacant land

The Licensees are directed:

To file feasibility report on scope for generation of additional revenue by entering into other businesses using its incumbent status by December 30, 2009.

Measures to Control Power Theft

463. The issue of theft of power was brought to the notice of the Commission by several objectors during the public hearings. They emphasized the need to take deterrent action for tackling the problem of power theft, which is all the more necessary in the present context due to the chronic shortage of availability of power.

The Electricity Act, 2003 provides legal authority to the Licensees to take measures for controlling power theft. The Commission desires that the DISCOMs should step up vigilance and enforcement measures so as to control power theft and reduce the ATC losses as envisaged in the tariff policy so that more power is available to essential sectors of the economy. Licensees should also explore alternative strategies like franchising to improve the situation.

**CHAPTER-XVI
WHEELING AND RETAIL SUPPLY TARIFFS**

ALL DISTRIBUTION AND RETAIL SUPPLY LICENSEES

A:WHEELING TARIFF SCHEDULE

464. In conclusion, the Commission directs the four distribution Licensees to levy wheeling tariff for each year of the Control Period from FY2009-10 to 2013-14 as indicated in Annexure-C respectively.

B:RETAIL SUPPLY TARIFF SCHEDULE

465. Similarly, the Commission directs the four distribution Licensees to levy Retail Supply Tariff on the respective categories of consumers for FY 2009-10 as indicated in Annexure-D.
466. These tariffs take effect from 01st April, 2009.

This Order is signed on the 20th day of March, 2009

Sd/-
C.R. SEKHAR REDDY
MEMBER

Sd/-
R. RADHA KISHEN
MEMBER

Sd/-
A. RAGHOTHAM RAO
CHAIRMAN

ANNEXURE-A LIST OF DIRECTIVES

1. Safety Improvement Plan

To prepare a Safety Improvement Plan for five years relating to distribution network with a budget of Rs.25 Cr. and file the same with the Commission for approval by 31st August 2009. Upon approval of such safety improvement plan by the Commission, Licensee may commensurate the project. Non compliance of this directive may lead to claw back of the amounts provided with carrying cost(Para 223,244,264,284).

2. Subsidy Administration

File the actual sales to subsidized categories of consumers for whom the GoAP agreed to pay the subsidy every month and the Commission will monitor the units actually sold by the Licensee vis-à-vis the subsidy provided. At the end of the year, subsidy adjustments will be made based on the consumption of units in respect of various subsidized categories (Para 351,379,407,435).

3. Charitable Trusts

File the billing procedure followed, concept used and the method followed to identify charitable institutions by October 30, 2009, in order to evolve uniform foolproof mechanisms to ensure that this facility becomes available only to genuine charitable institutions, that too only for those activities of these organizations which are genuinely charitable in nature. The Licensees shall also provide the list and details of all the consumers along with consumption details for FY 2008-09 to whom this tariff is being applied(Para 437).

4. Religious Places

- a. All the managements of the religious places, especially in rural areas, should be informed of the change in tariff and persuade others to obtain regular connections.
- b. Completion of load survey of all religious places to identify the consumers with connected load up to 1 kW by July 30, 2009.
- c. Reclassification of the eligible consumers under LT VII(B) and the adjustment of bills already issued for the months of FY2009-10. The Licensees shall file the compliance report on these directives by the August 30, 2009(Para 438).

5. Tariff Slabs in LT-I: Domestic Category

File the approach paper on these slabs in the context of operation of single bulb supply scheme and tariff policy with regard to BPL consumers by November 30,2009(Para 439).

6. Approach Paper on LT II: Non-Domestic Tariff

File an approach paper on tariffs for LT Category II: Non Domestic consumers duly indicating the number of slabs, charges by September 30, 2009 (Para 440).

7. Street Lighting Billing-APIIC Industrial Areas

To file the billing procedure adopted for billing the street lighting in the industrial areas run by APIIC. The Licensees shall also file the consumption for FY 2008-09 from these industrial areas on account of street lighting in consultation with APIIC. Further, the Licensees shall file the information with regard to notifications, if any, conferring the powers on these industrial areas under the relevant provisions of AP Gram Panchayats Act / AP Municipalities Act. The Licensees shall file the information by September 30, 2009 (Para 441).

8. Consumption Profile of Hoardings and Malls

To examine the consumption profile of the hoardings and shopping malls across the time and seasons and file a summary report on this issue by October 30, 2009 along with any suggestions on the tariff for future years (Para 442).

9. Approach Paper on Time of Day Tariffs

To prepare an approach paper on Time of Day tariffs duly considering such tariffs in other states and file the same by September 30, 2009. The Licensees are further directed to file the TOD tariffs in the next retail supply tariff filings based on the approach paper filed in this regard (Para 445).

10. Agricultural Consumption Estimate

File the monthly agricultural consumption estimate by 25th of every month for the previous month, based on existing guidelines (Para 446).

11. Revenue Impact Tariff Changes

Furnish the sales to these categories of consumers for the six months period from 01-04-09 to 30-09-09 by October 30, 2009 to enable the quantification of revenue for FY2009-10 (Para 447).

12. Curbing Misuse of Electricity

To conduct intensive verification of Domestic consumer connections, particularly in areas prone for such malpractices. The Licensees should launch the verification campaign in a systematic manner so that all such services are covered in a reasonable time frame(Para 448).

13. Compensation to the Victims of Accidents

- a) To post the month wise details of the ex-gratia/compensations paid to the persons affected in the accidents, on official website.
- b) To file the detailed reports within seven days (duly posting the same on official website) on the incidents;
 - i. where the electronic equipment of the house holds of a village/street got burnt due to high voltages.
 - ii. Where the animals of economic importance/humans of the village got electrocuted due to snapped live wire/falling of High Tension wire on Low Tension wire etc,

- c) The Licensees shall examine the requests of the objectors for increasing the amounts of ex-gratia for loss of animals of economic importance and humans and submit a report with the details of possible increases in the amounts by September 30, 2009(Para 449).

14. Documents Availability in Telugu

To make available all the important documents like agreements, General Terms and Conditions of Supply (GTCS) etc., in Telugu immediately and to make available copies of these documents both in English and Telugu at all the section offices/Customer Service Centers. The copies shall also be posted on their websites. The compliance report shall be submitted by September 30, 2009 (Para 451).

15. Sales and Power Purchase Information

To file category wise actual sales and station wise actual power purchases for all sources including details of Fixed Charges, Variable Charges, Incentives, Income Tax and other charges, if any, within 21 days from the close of every month (Para 453).

16. Status Paper on CMD Deration

To file the views on the issue relating to notice period for temporary reduction of Contracted Demand along with other conditions that govern the aspect of temporary reduction of Contracted Demand, by July 30, 2009 (Para 454).

17. Utilization of Funds from Central Schemes

Submit half-yearly reports by 31st of October and by 30th of April, for the six month periods ending 30th September and 31st March respectively with the details of scheme wise utilization of such funds (Para 455).

18. Small Commercial Establishments: Installment Facility

To extend the facility to pay the development charges, on request of the consumers, in four equal quarterly installments by commercial establishments with loads below 500 Watts(Para 456).

19. DTR Stock Display

To 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 (Para 452).

20. Safety Officer

To designate an Officer not below the rank of Divisional Engineer at each circle as 'Safety Officer' and shall be made responsible for implementing all safety standards as per I.E Rules/Safety standards as specified by CEA. The Safety Officer shall inspect all electrical installations to prepare a detailed proposal to rectify any short comings noticed or brought to his notice to ensure that the electrical accidents do not take place (Para 457).

21. Neutral Wire-HVDS Areas

To run neutral wire from 33/11 kV SS to all single phase transformers both existing and new installations without resorting to use of earth as a return conductor. Further the

Licensees are directed to strictly implement earthing practices as per 61(1)(a), 67(1A) and 92 of IE Rules, 1956 and provide three earth pits as per the prescribed construction standards. The Licensees shall file half yearly reports by 31st October and 30th April for periods ending 30th September and 31st March respectively (Para 458).

22. Energy Conservation

- a. To designate Energy Managers and Energy auditors for efficient use of energy and its conservation. The Energy managers and Energy auditors shall conduct periodic energy audit and submit a report. The report shall include the reasons for inefficient use of energy and recommendations to conserve and improve energy efficiency. The report shall also furnish the the present status and proposed action plan.
- b. To take up publicity campaigns, at minimum possible costs, to 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 at the end of each quarter (Para 460).

23. Circle Wise Energy Audit

To conduct circle wise energy audit and make full scale efforts to achieve the approved loss reduction trajectory(Para 459).

24. Consumer Choice to Buy Meters

To study the practices in other states and evolve a procedure for consumers to procure the meters fulfilling the prescribed technical specifications from a list of approved manufacturers (Para 461).

25. Entry into Other Businesses

To file the feasibility report on additional revenue through entering into other business using its incumbent status by December 30 (Para 462).

ANNEXURE-B
LIST OF OBJECTORS

Sl. No.	Name and Address of the Objector	Objection Related to
1	C.H.Subrahmanya Sastry, 3rd lane, D.No.17-18 cross road, Brodipeta, Guntur- 522 002	SPDCL
2	D.V.Laxmi Narayana, Editor, Viniyoga Hakku, 4/14, Brodipeta, Guntur- 522 002	SPDCL
3	K.S.Ramaiah, Advocate, H.No.1-6-174 -5/18, Aruna Co-op.Society, Mushirabad Area, Hyderabad - 20	CPDCL
4	Er.Ch.Venkateswarlu, President, A.P.Electricity consumer's Forum, Penuganchiprolu - 521 190, Krishna Dist.	SPDCL
5	R.H.N.Sarma, 6-9, Santhoshnagar, Simhachalam, Visakhapatnam-28	EPDCL
6	Katuri Hari kishore Kumar Reddy, S/o Ramakrishna Reddy, Paturu(P.O.), Kovvur(M), Nellore dist	SPDCL
7	Kavali.Veerappa, President, Zilla Padi Pantala Raitu Samakhya, Chittoor dist, Bangarupalyam(M)	SPDCL
8	Santharam J. Pawar,S/o Jayaram Rao Pawar, Executive Member, Zilla Raithu Samakhya, D.No.1/354, Jayaramrao Street, Srikalahasti - 517644, Chittoor Dist.	SPDCL
9	S.Mohan Rao, S/o Subba Rao, President, Zilla Raithu Samakhya, D.No.3/57, K.N.Street, Srikalahasti - 517644, Chittoor dist.	SPDCL
10	D.Ramaswami Reddy, B.E., F.I.E., Retd.SE, 21/72, Trunk Road, Opp.Collector's Office, Cuddapah - 516001	SPDCL
11	Sheikh Bade Basha, S/o Baba Saheb, D.No.7-223, Kotha Peta, Srikalahasti - 517 644	SPDCL
12	P.Vijaya Chandra Naidu, S/o Late P. Krishna Swami Naidu, Project Co-Ordinator, Federation of Farmers Association, Chittoor	SPDCL
13	G.V.Jayachandra Chowdary, President, District Committee, Federation of Farmers' Assocations, Chittoor, A.P.	SPDCL
14	M.Krishnama Naidu, S/o Muna Swamy Naidu, D.No.6/570, Gandhi Road, Nagula Gunta, Srikalahasti - 517644	SPDCL
15	R.V.Ram Mohan, Centre for World Solidarity (CWS), 12-13-438, St No: 1, Tarnaka, Secunderabad-500017	ALL DISCOMs
16	Er. A.Punna Rao, Chartered Engineer, 59-2-1, 1st line Ashok Nagar, Vijayawada - 520 010	ALL DISCOMs
17	Mandala Subrahmanyam, D.No.7-798, IIInd floor, Big Masqst, Srikalahasti - 517644	SPDCL
18	R.Siva Kumar, S/o Raghavulu, D.No.3/741, II Floor, Nehru Street, Srikalahasti - 517644	SPDCL
19	P.Chalapati, S/o Subbarayudu, D.No.9/142, Bhadur Peta, Aaruvela Veedhi, Srikalahasti - 517644	SPDCL
20	C.Madana Gopal, S/o. C.Narasimhulu, D.No.2/52, Jayaramrao Street, Srikalahasti - 517644	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
21	Pasupuleti Chandra Mohan, S/o. P.Raghavayya, H.No.5, III Street, Bangaramma Colony, Pichuturu Road, Thottam Bedu(V), Thottam Bedu(M), Chittoor Dist	SPDCL
22	B.Nagaraju, S/o.Mallaiah, Vutavanka, Domal Cheruvu (P),Pakala Mandal, Chittoor Dist.	SPDCL
23	V.Bhaskar Naidu, S/o Venkatrao Naidu, Abba Naidu Indlu, Uppara palli panachayat, Pakala mandal, Chittoor Dist	SPDCL
24	V.Gopala Naidu, S/o V.Gurappa Naidu, Mallela Cheruvu palle, Uppara Palle panchayat, Pakala Mandal, Chittoor Dist	SPDCL
25	S.Narayanaswamy Naidu, S/o Krishnayya Naidu, Mutthuneni Vari Palle, PeddaGorpadu Panchayat, Pakala Mandal, Chittoor Dist.	SPDCL
26	S.Rajendra Naidu, S/o Narasimhulu Naidu, Utlavari palle, Uppara Palle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
27	V.Subrahmanyam Naidu, S/o Krishnayya Naidu, Nalla Gutta Indlu, Pedda gorpadu(P), Uppara Palle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
28	K.Doraswamy Naidu, S/o K.Venkatraya Naidu, Kundetivari Palle, Panta Palle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
29	P.Rajeswara Reddy, S/o Srinivasulu reddy, Samireddy Palle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
30	P.Umamahaswara Reddy, S/o. Narasimha Reddy, Pedaravuru Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
31	D.Seshadri Naidu,S/o. Chinnaba Naidu, Kundetivaripalle, Pantapalle Panchayat,Pakala Mandal, Chittoor Dist	SPDCL
32	Balaji Venkat Kumar, Samireddy Palle Panchayat, Pakala Manndal, Chittoor Dist	SPDCL
33	J.Lakshmipathi Reddy, S/o.J. Ramachandra Reddy, Samireddy Palle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
34	A.Sudhakar Naidu, S/o. A.Ramachandra Naidu, Adusupalle, Iramgaripalle Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
35	R.Reddaiah Chowdary, Chinnagorpadu, Pakala Mandal, Chittoor Dist	SPDCL
36	P.Rangaiah, S/o.P.Mallaiah, Vutuvanka, Damacheru Post, Pakala Mandal, Chittoor Dist	SPDCL
37	N.Balakrishna Reddy, S/o. Sidda Reddy, Thowtapalle, Samireddy Palli Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
38	G.Balaji, S/o. G.V.Kumar, Peddaramapuram Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
39	G.Madhava Reddy, Bandarla Palle (V), Pakala Mandal, Chittoor Dist	SPDCL
40	S.Naveen, S/o. Tyagaraju Naidu, Bharatha Mitta, Pakala Mandal, Chittoor Dist	SPDCL
41	D.Subbaiah, S/o. Munuswamy, Lakshmipuram, Ganugapenta Panchayat, Pakala Mandal, Chittoor Dist	SPDCL
42	C.Raghunadaiah, S/o. Subbarayudu, Desireddy Palli, Pantapalli Panchayat, Pakala Mandal, Chittoor Dist	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
43	K.Balakrishna Reddy, S/o. K.Muniswami Reddy, Presdient, Chittoor District Fruit Processors Fideration, 15-2294, Suvera House,Balaji Nagar Colony, Chittoor - 517 002	SPDCL
44	C.Harihara Reddy, President, Chittoor Mandal Mango Growers, M.A.C.Society, Mapakshi Post, Chittoor Dist-517002	SPDCL
45	V.Raghava Reddy, S/o. Narasimha Reddy, President, Bharatiya Kisansangh, H.No.1-9-295/32/4, Lakshmi Apartment, Flat No: 202, Vidyanagar, Hyderabad - 44	CPDCL
46	G.Nadamuni Naidu, S/o.Varadappa Naidu, M.A.Rajula Kandriga, M.A.Rajula Kandriga Post, K.V.B.Puram Mandalam, Srikalahasti - 517 644	SPDCL
47	M.Baskara Rao, S/o.Krishna Murthy, Room.No.5, Murugan Xerox, Town Policestation, Babu Agraharam, Srikalahasti - 517 644	SPDCL
48	M. Krishna Murthy, SAO (Retd), SRT-302, Sanath Nagar Colony, Hyderabad-500018	ALL DISCOMs
49	K.Vijaya Kumar Reddy, Pedda Kannali (Village & Post), Thottam Bedu(M)- 517642, Chittoor Dist	SPDCL
50	Vayyala Krishna Reddy, S/o Lakhmana Reddy, Dist.Secretary, Federation of Farmers Association, 16-755, Sriram Nagar Colony, Srikalahasti-517112	SPDCL
51	T.Venkateswara Chowdary, S/o Ankaiah Naidu, D.No.8/693, Harahara Bavi, Kotha Peta, Srikalahasti - 517644	SPDCL
52	A.K.Haribabu Chowdary & K. Ramakrishnama Naidu, Thellagundla Valasa, Thalam Bedu Post, Chittoor Dist - 517419	SPDCL
53	B.Peera reddy, B.E.(Elcl.), M.P.Sri Venkateswara Rice & Floor Mill, D.No.7-612/3, Back side of HP Petrol bunk, Piduguralla - 522413, Guntur Dist	SPDCL
54	Vangala Subba Rao & Sameneni Rama Rao, A.P.Raithu Sangham, 1-1-9/10, Jawahar Nagar, RTC X Road, Hyderabad - 20	ALL DISCOMs
55	Ch.S.Reddy, IRSEE, Dy Chief Electrical Engineer (TRD), South Central Railway Headquarters Office, Electiricial Branch/Traction Rail Nilayam, 4th Floor, "C" Block, Rail Nilayam, Secunderabad - 500 071	ALL DISCOMs
56	Kota Venkata Subba Rao, Secretary, The Piduguralla Pulverising Millers Association, Guntur Road, Piduguralla - 522413, Guntur Dist	SPDCL
57	A.Bhujagasayanam, B.N.Kandriga Mandal, Vijaya Gopalapuram, Chittoor Dist	SPDCL
58	C.A.Prasad, State Vice President, Janavignana Vedica, Opp: Lane. P.N.C.A., Degree College, Somaraju Palle, S.C. Colony, Singarayakonda, Prakasam District-523101	SPDCL
59	Sri. Bitra Srinivasa Rao, H.No.20-7-25(1), Muntavari Centre, Chirala - 523 155	SPDCL
60	D.Venkateswarlu, H.No.15-54/2, Padmavati Nagar, Tirupati, Chittoor District - 517 502	SPDCL
61	G.Malyadri, D.No.8-1-6, 1st Stage, Balajirao Pet, Tenali - 522 201	SPDCL
62	Jala Rao, Farmer, D.No.7-28-36, Anjaneya Pantuluvari Street, Tenali - 522 201	SPDCL
63	Ch. Chalama Reddy, Chagarla Post, Nakarikallu Mandal, Guntur District - 522 615	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
64	T.Satish Kumar, H.No.6-93-2, PSR Street, Chellapalli, Krishna District - 521 126	SPDCL
65	M.Ravi Babu, Bhramaramba Puram, Krishnalanka Mandal, Vijayawada, Krishna District - 520 013	SPDCL
66	C.Venkatanarayana, Near Ramalayam, Velama Peta, Kaikaluru, Krishna District	SPDCL
67	G.V.Nageswara Rao, H.No.41-20/5-32, Kalpana Frunts Road, Krishnalanka, Vijayawada	SPDCL
68	A.Bhaskara Rao, 21-10-38, 2nd Street, Srinagar Colony, Satyanarayana Puram, Vijayawada - 520 011	SPDCL
69	M.T.M. Prasada Rao, D.No.1/210, Kalekhan Peta, Machilipatnam, Krishna District	SPDCL
70	P.Amareswara Rao, 21-574, Paraspeta, Machilipatnam, Krishna District	SPDCL
71	K.Venkateswarlu, 32-4247/1, G.M.Nagar, Machavaram, Vijayawada, Krishna District - 520 003	SPDCL
72	A.S.S.Ram Prasad, Peddabotla Vari Street, Governor Pet, Vijayawada, Krishna District	SPDCL
73	M.Jitendra Nath, Anandavihar (Post), Ayodya Nagar, Vijayawada, Krishna District	SPDCL
74	L.V.Ayyappa Swamy, H.No.41-16-33, Krishna Lanka, Vijayawada, Krishna District - 520 013	SPDCL
75	M.A.Gafar, Anandavihar Post, New Ayodyanagar, Vijayawada - 3, Krishna District	SPDCL
76	S.V.V.Nagaraju, Sagandika, H.No.24-14-42, Durgapuram, Vijayawada, Krishna District - 520 003	SPDCL
77	G.Venugopal, Kalpana Printers Road, Krishna Lanka, Vijayawada, Krishna District - 520 013	SPDCL
78	Dastagiri, Roshan Medical Shop, Kadapa Road, Mydukuru, Kadapa - 516 172	SPDCL
79	A.V.Subba Rao, Z.P.Hs., Potladurti Post, Yerraguntla, Kadapa	SPDCL
80	Dr.S.A.S.Farooq, Doctor, 21/111, Kadapa Poly Clinc, R.S.Raod, Kadapa	SPDCL
81	M.Muniramaiah, Sreerama Medical Store, Badvel Road, Mydukuru, Kadapa	SPDCL
82	B.Viswanath, Teacher, H.No.13/128, Sainandha Puram Vedhi, Mydukur, Kadapa	SPDCL
83	N.Devadattu, Teacher, H.No.14-57/2, Backside of Z.P.H.S., Mydukuru Post, Kadapa - 516 172	SPDCL
84	A.V.Ramanaiah, Teacher, H.No.14/422-3, K.C. Nagar Street, Mydukuru, Kadapa-516172	SPDCL
85	P.Venkateswarlu, Kasumurru Post, Venkatachalam Mandal, Nellore District	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
86	Ch.Srinivasa Rao, Nandavaram Post, D.C.Palli, Nellore District	SPDCL
87	Dr.G.Vijayakumar, Nellore Hospital, Aravinda Nagar, Nellore District	SPDCL
88	B.Chanchaiah, Madamanuru Post, Manubolu Mandal, Nellore district	SPDCL
89	C.V.Ratnam, Advocate, B.S.N.L.Office, Near Lelamahal, Nellore District	SPDCL
90	S.K.Rajib, Surapu Agraharam, Kallur Post, D.V.Satram Mandal, Nellore District	SPDCL
91	K.Venkatrao, 6-12-5/14, Pichireddy Tota Post, Naidupeta, Nellore District	SPDCL
92	CH.Balakrishna Murhty, 2/197, Nallayarao Peta, Guduru Mandalam, Nellore District - 2	SPDCL
93	A.Chenchaiah, Naidupeta (Village & Post), Nellore District	SPDCL
94	K.Krishnaiah, Naidupeta (Village & Post), Nellore District	SPDCL
95	T.Sukumar Reddy, Papulla Street, Park Road, Sten House Peta, Nellore District	SPDCL
96	N.Narayana, 17/69, Dronam Raju Street, Nellore District	SPDCL
97	P.Chinnaiah, Nellatore Post, Muttukur Mandal, Nellore District	SPDCL
98	K.Srinivasulu, Kothapali, Gudinarva Post, Varikuntapadu Mandal, Nellore District - 524 236	SPDCL
99	Madusudhan Sastry, Sadhana Degree Colege, Markapur Mandal, Markapur, Prakasam District	SPDCL
100	M.Raghava Rao, Chimakurthi(V), Chimakurthi(P), Chimakurthi(M), Prakasam Dist.	SPDCL
101	K.Madhava Rao, Chandamama Public School, Opp.C.V.N.Reading Room, Ongole, Prakasam Dist.	SPDCL
102	K.Venkateswarlu, Roots Public School, Tanguturu(V), Tanguturu(P), Tanguturu(M), Prakasam Dist.	SPDCL
103	S.Venkatewarlu, Sri Prasanthi High School, Darsi(P), Darsi(M), Prakasam Dist.	SPDCL
104	K.Pullaiah, C/o Bharathi Narsing Home, Ongole, Prakasam Dist.	SPDCL
105	B.Sneha Koti, Somaraju Palle, SC Colony, S.Konda(P), S.Konda(M), Prakasam Dist.	SPDCL
106	P.Naga Murthi, Dornala(V), Dornala(P), Dornala(M), Prakasam Dist.	SPDCL
107	Jayaramaiah, Ponduru(V), Ponduru(P), Ponduru(M), Prakaam Dist.	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
108	N.John, J.Panguluru(V), J.Panuguluru(P), J.Panuguluru(M), Prakasam Dist.	SPDCL
109	M.Balakrishna Reddy, Netaji Junior College, Kanigiri, Kanigiri(P), Kanigiri(M), Prakasam Dist.	SPDCL
110	P.Bheemanna, C/o Jhansi Public School, Darsi(V), Darsi(P), Darsi(M), Prakasam Dist.	SPDCL
111	B.Jawahar, Cheemakurhti(V), Cheemakurhti(P), Cheemakurhti(M), Prakasam Dist.	SPDCL
112	P.Prasad, Somaraju Palle(V), Somaraju Palle(P), Singarayakonda(M), Prakasam Dist.	SPDCL
113	N.Subbarami Reddy, C/o Chanakya Visionary School, Annarappadu(V), Annarappadu(P), Annarappadu(M), Prakasam Dist.	SPDCL
114	G.Venkateswar Rao, Pothavaram(V), Neerudupalle(P), P.C.Palle(M), Prakasam Dist.	SPDCL
115	P.Vijaya Kumar, Z.P.H.S.Veligandla, Veligandla(P), Veligandla(M), Prakasam Dist.	SPDCL
116	M.Srinivas Reddy, Diet, Myanam Padu(V), Mynam Padu(P), S.N.Padu(M), Prakasam Dist.	SPDCL
117	Dr.B.Koti Reddy, Jhansi Nursing Home, Darsi(V), Darsi(P), Darsi(M), Prakasam Dist.	SPDCL
118	J.Ch.Venkateswarlu, Karavadi(V), Karavadi(P), Ongole Rural(M), Prakasam Dist.	SPDCL
119	K.Pavan Kumar, C/o Sadhana Degree College, Markapur(V), Markapur(P), Markapur(M), Prakasam Dist.	SPDCL
120	P.Venkateswarlu, Pothavaram(V), Neerudu Palle(P), P.C.Palle(M), Prakasam Dist.	SPDCL
121	V.Venkateswara Naidu, S/o V.Chinnaswamy Naidu, Munnurpalli, P.Kotha Kodu Post, Puthalapattu Mandal, Chittoor Dist.	SPDCL
122	N.Raja Reddy, S/o N.Sidda Reddy, Papparaju Palle, P.Kothakodu(P), Puthalapattu(M), Chittoor Dist.	SPDCL
123	C.V.Mohan Rao, Secretary, Repalle Pattanabhivrudhi Sangham, Repalle - 522 265.	SPDCL
124	S.Changalraya Reddy, S/o S.Ananda Reddy, Cherlo Palle (V), P.Kothakota Post, Puthala Pattu Mandal, Chittoor Dist.	SPDCL
125	Mohammed Silar, Retd. Thasildar, President, Jana Vignana Vedica, D.No.20/620, Lakshmanaraopuram, Chilakalapudi, Machilipatnam - 521002	SPDCL
126	M.R.Prasad, Secretary General, A.P.Ferro Alloys Producers Association, 3rd Floor, Progressive Towers, Khairatabad, Hyderabad-4,	EPDCL
127	APR Rao, For Chief Electricial Engineer, O/o Chief Electricial Engineer, Rail Kunj, NwGM Building, Chandrasekharapur, East Coast Railway, Bhubaneswar-751023 (Orissa State)	EPDCL
128	M.Satyanarayana, K.L.Puram(V), K.L.Puram(P), Vijayanagaram(M), Vizayanagaram Dist.	EPDCL
129	G.Appala Naidu, Metada(V), Metada(P), Metada(M), Vizianagarm Dist	EPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
130	G.Srinivasulu, Gowrayya English Medium School, Phool bag(P), Vizianagarm Dist.Pin- 535 002	EPDCL
131	Laxmana Rao, Chittivalasa(V), Chittivalasa(P), Gajapathi Nagarm(M), Vizianagaram Dist	EPDCL
132	M.V.N.Venkata Rao, Gurajada Public School, Phool Bag(P), Vizianagarm Dist. Pin-535003	EPDCL
133	Siva Varma, Ring Road(P), Vizianagaram Dist	EPDCL
134	K.Satyanarayana, Gangalay Peta(V), Gangalay Pet(P), Gajapathi Nagaram(M), Vizianagarm Dist.	EPDCL
135	P.Murali, Metada(V), Metada(P), Metada(M), Vizianagarm Dist.	EPDCL
136	B.L.N.Murthy, H.No.MIG 3/204, Phase III, Contonment Vuda Colony, Vizianagaram	EPDCL
137	M.V.R.Krishnaji, MIG 168, Veda Colony, Contonment, Vizianagaram	EPDCL
138	K.Prabhakara Rao, Advocate, H.No.11-3-125, Nehru Nagar, Near Registrar Office, Khammam	NPDCL
139	M.Verranna Yadav, Corrspondent, Vignan Junior College, Husnabad, Karimnagar - 505467	NPDCL
140	A.Sankaraiah, H.No.4-6-47, Ambedkar Nagar, Siricilla, Karimnagar - 505301	NPDCL
141	P.Pavan Kumar, Saibaba Medical Hall, Navi pet(V), Navi Pet(M), Nizamabad Dist	NPDCL
142	T.Bhumaiah, H.No.2-5, Sabdapur(V), Kama Reddy(M), Nizamabad Dist, Pin-503111	NPDCL
143	N.Rama Rao, H.No.6-88/615, Arsan Nagar, (PO) Boregun, Nizamabad Dist. Pin-503230	NPDCL
144	Sanjeev, Nandigama(V), Nandigam(P), Navi pet(M), Nizamabad	NPDCL
145	G.Madhava Rao, H.No.5-11-736, Yellamma Gutta, Nizamabad	NPDCL
146	K.Gangadhar, Kamalapur(V), Kamalapur(P), Dichpally(M), Nizamabad Dist	NPDCL
147	K.Asanna, Kamalapur(V), Kamalapur(P), Dichpally(M), Nizamabad Dist	NPDCL
148	M.Koteswar, Nagan Pally(V), Raithu Nagar(P), Bhodhan(M), Nizamabad Dist. Pin - 503 185	NPDCL
149	A.Vignesh,H.No.6/88/6/8/5, Arya Nagar, (PO) Boregun, Nizamabad Dist	NPDCL
150	M.Linga Rao, H.No.6/88/29/20, Arya nagar, (PO) Boregun, Nizamabad	NPDCL
151	N.Anja Goud, Lingay Palle(V), Ammaakka Palli(P), Kamareddy(M), Nizamabad - 503111	NPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
152	Dr.P.Ram Mohan Rao, 5-7-43, Sanjeev Narsing Home, Khaleel Vadi(P), Nizamabad Dist., Pin-503003	NPDCCL
153	M.R.Prasad, Secretary General, A.P.Ferro Alloys Producers Association, 3rd Floor, Progressive Towers, Khairatabad, Hyderabad-4	CPDCL
154	Alivelu, H.No.34-96/1, Bandaru nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist., Pin:509103	CPDCL
155	K.Bhagya Lakshmi, H.No.34-79, Bandaru nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
156	J.Rahupathi Reddy, H.No.42-219/1,RTC Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
157	G.S.S.Prakash, H.No.41-231,Teachers Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
158	A.Gali Reddy, H.No.45-106, Basavanna Gadda, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
159	G.Venkateswaralu, Sai nagar Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
160	S.Srinivasulu, H.No.34-96, Bandaru Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
161	K.Santha Kumari, H.No.37-27, Vallabha Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
162	Jameer Ahmed Khan, H.No.16-37, Srinivasa Colony, Atmakur(P), Atmakur(M), Mahaboobnagar Dist. Pin:509131	CPDCL
163	Y.Madan Mohan Reddy, New Town Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
164	K.Bhargavi, H.No.16-54/6A, Opp.R.R.Complex, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
165	Triveni, H.No.34-96/2, Banderam Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
166	N.V.Subba Rao, New Town Colony, Nandi Hills, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
167	A.Venkatesh, KDR Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
168	B.Bhasker, Kalvarala(V), Kalvarala(P), Panagal(M), Mahaboobnagar Dist.	CPDCL
169	A.Phani Bhusan, H.No.41-251, Teachers Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
170	K.Gopala Krishna, NTR Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
171	A.Bala Krishna, H.No.42-236/1, RTC Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
172	K.V.R.Mohan, H.No.36-82, Vallabh Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
173	E.Vinod Kumar, H.No.16-121/2, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
174	C.Suresh, Srirangapur(V), Srirangapur(P), Pebberu(M), Mahaboobnagar Dist. Pin:509104	CPDCL
175	Shabani, Bandaru Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
176	K.Manjula, H.No.39-21, Bandaru Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
177	V.Chandra Sekhar, Kesam Pet(V), Kesam Pur(P), Gopal Pet(M), Mahaboobnagar Dist.	CPDCL
178	B.Srinivasulu, Gopal Per(V), Gopal Per(P), Gopal pet(M), Mahaboobnagar Dist.	CPDCL
179	S.V.Ramana, H.No.34-97/1, Bandaru Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
180	P.Soma Sundaram, H.No.44-68, KDR Nagar(V), KDR Nagar(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
181	G.Kurmayi, Pangal(V), Pangal(P), Pangal(M), Mahaboob Nagar Dist.	CPDCL
182	J.Srinivasulu, Vallabh Nagar, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
183	N.Narender Reddy, Saketa Junior College, Miryalaguda, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist. Pin:508207	CPDCL
184	A.Kotaiah, Salkanur(V), Salkanur(P), Vemulapalli(M), Nalgonda Dist. Pin:508374	CPDCL
185	M.Ravindra Naik, Gummodam Tanda(V), Gummodam(P), Pebberu(M), Mahaboobnagar Dist.	CPDCL
186	C.Murali Mohan, Pathakota Veedhi, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
187	S.Raman Goud, China Tandra Padu(V), China Tandra padu(P), Ija(M), Mahaboobnagar Dist.	CPDCL
188	V.Sriramulu, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
189	A.Ramu, H.No.42-851, Hitech Colony, Wanaparthy, Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
190	MD.Jani, Rai Gadapa(V), Rai Gadapa(P), Tripuraram(M), Nalgonda Dist.	CPDCL
191	R.Saidulu, C/o Saisri Junior College, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist. Pin:508207	CPDCL
192	B.Srinu, Salkanur(V), Salkanur(P), Vemula palli(M), Nalgonda Dist. Pin:508374	CPDCL
193	R.Edukondalu, Rai Gadapa(V), Rai Gadapa(P), Tripuraram (M), Nalgonda Dist.	CPDCL
194	R.Sridhar, H.No.7-1401, Bangaru Gadda, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist.	CPDCL
195	K.Saidulu, C/o Sneha Chiken Centre, Opp.Vigneswar estate, APHB Colony, Miryalaguda(V), Miryalaguda(P), Miryalaguda(M), Nalgonda Dist.	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
196	Dhanushradh Reddy, C/o Saisri Junior College, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist. Pin:508207	CPDCL
197	R.V.Pratap, Rai Gadapa(V), Rai Gadapa(P), Tripuraram (M), Nalgonda Dist.	CPDCL
198	Desiram Naik, Prakash Nagar, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist. Pin:508207	CPDCL
199	N.Ravi Kumar, Amangal(V), Amangal(P), Vemulapalli(M), Nalgonda Dist.	CPDCL
200	G.N.Raju, H.No.14-110/1, Sitarama Puram, Miryalaguda(M), Nalgonda Dist.	CPDCL
201	S.K.Faqrudin, Rai Gadapa(V), Rai Gadapa(P), Tripuraram (M), Nalgonda Dist.	CPDCL
202	Vijay Kumar, C/O Jyothi Concept School, Reddy Colony, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist. Pin:508207	CPDCL
203	R.Ravi, MPTC, Alsayipalem(V), Alsayipalem(P), Damercherla(M), Nalgonda Dist.	CPDCL
204	SK.Maderbegum, Jyothi School of Nursing, Jyothi Hospital, Miryalaguda, Nalgonda Dist.	CPDCL
205	V.Pandu Ranga Rao, Alla Gadapa(V), Alla Gadapa(P), Miryalaguda (M), Nalgonda Dist.	CPDCL
206	Md.Inayat Khan, H.No.21-187, Eslam Puram, Miryalaguda, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist.	CPDCL
207	Md.Iqbal, C/o Jyothi Hospital, Miryalaguda, Nalgonda Dist.	CPDCL
208	N.Kiran Kuamr, Salkanur(V), Salkanur(P), Vemulapalli(M), Nalgonda Dist.	CPDCL
209	D.Venkat Reddy, C/o.Vasavi Junior College, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist.	CPDCL
210	R.Kamala Basan, Salkanur(V), Salkanur(P), Vemulapalli(M), Nalgonda Dist.	CPDCL
211	J.Kondala Reddy, H.No.5-109, M.P.Quarters, Miryalaguda, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist-508207	CPDCL
212	Shaik Baba, Nilayigudem(V), Nilayigudem(P), Tripuraram(M), Nalgonda Dist.	CPDCL
213	Y.Madhu Babu, Dhupahad(V), Lingala(P), Garidipalli(M), Nalgonda Dist.	CPDCL
214	K.Sudersan, H.No.7-1401, Bangarugadda, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist., Pin:508207	CPDCL
215	R.Anjaiah, H.No.19-119, Reddy Colony, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist., Pin:508207	CPDCL
216	Dr.M.Rama Rao, C/o Jyothi Hospital, Miryalaguda, Nalgonda Dist Pin:508207	CPDCL
217	K.Rambabu, Netapuram(V), Netapuram(P), Netapuram(M), Nalgonda Dist.	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
218	R.Srinivasulu, Tungapadu(V), Tungapadu(P), Miryalaguda(M), Nalgonda Dist.	CPDCL
219	R.Venkateswarlu, Rai Gadapa(V), Rai Gadapa(P), Tripuraram (M), Nalgonda Dist.	CPDCL
220	Dr.Ramesh Kuamr, C/o Jyothi Hospital, Miryalaguda, Nalgonda Dist Pin:508207	CPDCL
221	Dr.Manohar, Miryalaguda(V), Miryalaguda(P),Miryalaguda(M), Nalgonda Dist Pin:508207	CPDCL
222	Ch.Yadaiah, Govt.Junior College, Miryalaguda(V), Miryalaguda(P),Miryalaguda(M), Nalgonda Dist Pin:508207	CPDCL
223	A.Ramesh, Salkanur(V), Salkanur(P), Vemulapalle(M), Nalgonda Dist.	CPDCL
224	M.N.Reddy, Prakash Nagar, Miryalaguda(V),Miryalaguda(P), Miryalaguda(M), Nalgonda Dist Pin:508207	CPDCL
225	M.Ananda Kumar, M.P.Office, Vemulapalli(V), Vemulapalli(P), Vemulapalle(M), Nalgonda Dist.	CPDCL
226	P.Mattaiah, Saketha Junior College,Miryalaguda(V), Miryalaguda(P),Miryalaguda(M), Nalgonda Dist.Pin:508207	CPDCL
227	K.Sankar, C/o. Jyothi Pharmacy, Miryalaguda(V), Miryalaguda(P), Miryalaguda(M), Nalgonda Dist Pin:508207	CPDCL
228	K.Venkateswarlu, Netapuram(V), Netapuram(P), Nidamanur(M), Nalgonda Dist.	CPDCL
229	K.N.Ramdass, Advocate, Samatha Vidyalaya, Prem Nagar, Hyderabad - 500004	CPDCL
230	Shaik Kasim Saheb, Advocate, R.No.135, Kasya Complex, M.G.Road, Hyderabad - 03	CPDCL
231	Subba Rangaiah, Veda I.I.T., H.No.333, Flat NO.42, B.N.Reddy Colony, Banjara Hills, Hyderabad	CPDCL
232	I.V.Priya Kumar, 6-3-609/107, Anand Villa, Anand Nagar, Khairtabad, Hyderabad	CPDCL
233	Ch.Ramachandra Raju, H.No.17-1-391/S/407, Ist Floor, Saraswathi Nagar, Saidabad, Hyderabad	CPDCL
234	P.V.Janaki Ram, H.No.314, HMT Hills, Opp.JNTU, Kukatpally, Hyderabad - 72	CPDCL
235	M.Veranna, F-9, Dollar Chambers, 6-2-40, AC Guards, Saidabad, Hyderabad - 04	CPDCL
236	M.Vijayalakshmi, Plot No.45/A, D.No.5-575/A, Venkataramana Colony, Hyderabad	CPDCL
237	P.Abraham, Erravulapadu(V), Yadgara Palle (P), Miryalaguda(M), Nalgonda Dist.	CPDCL
238	Dr.V.Brahama Reddy, Praja Vaidyasala, Dupadu, Lakshmi Puram, Kurnool	CPDCL
239	K.Eswaraiah, Plot No.22, HNo.28-3-304, Sarada Nagar, Ill main, Anantapur(P), Anantapur(M), Anantapur Dist. Pin:515001	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
240	B.V.Radhakrishna Murthy, 1-4-134, Ganga Nagar, Anantapur, Anantapur Dist.	CPDCL
241	G.Akulappa, D.No.1-81, Brahamana Palli(V), Brahamana palli(P), Puttaparthi(M), Anantapur Dist.	CPDCL
242	S.Md.Miya, Laxmipuram(V), Doopadu(P), Kurnool Dist., Pin:518218	CPDCL
243	S.Suresh, Pogula Ageen Nagar, Miyapur, Ranga Reddy Dist - 50	CPDCL
244	D.Hanumantha Rao, H.No.3-67, Shamirpet(V), NISA(P), Ranga Reddy Dist., Pin: 500078	CPDCL
245	C.V.Subba rao, MIG-18, Siddartha Nilayam, Medchel, Ranga Reddy Dist., Pin:501401	CPDCL
246	B.Maddeleti Reddy, Palkunur(V), Palkunur(P), Banganpalle(M), Kurnool Dist.	CPDCL
247	K.Mallikarjun, Surya Visions, opp.Gandhi Nager, Kurnool Dist	CPDCL
248	J.Sambhu Prasad, Dubaguntla(V), Dubaguntla(P), Gospadu(M), Kurnool Dist.	CPDCL
249	K.Sekhar, H.o.26/60, Near ABM Church, Chigurumanupet(V), Done(P), Done(M), Kurnool Dist.	CPDCL
250	G.Venkata Subbaiah, Rudravaram(V), Rudravaram(P), Rudravaram(M), Kurnool Dist.	CPDCL
251	T.J.Jayaseela, H.No.49/50,A/551, Sriram Nagar, Kurnool	CPDCL
252	Dr.Dasthagiri, Praja Clinic, Sanghi Peta, Sanghi peta, Nandyal(P), Nandyal(M), Kurnool Dist.	CPDCL
253	J.Nagamani, H.No.1-350, Medam Veedhi, One Town, Kurnool	CPDCL
254	G.V.Sudersan Reddy, R.S.Rangapuram(V), R.S.Rangapuram(P), Bethamcherla(M), Kurnool Dist.	CPDCL
255	B.Murali Mohan, Vidya Nagar(V), Vidya nagar(P), Kurnool(M), Kurnool Dist.	CPDCL
256	B.Prem Latha, F.Type-89, Cement nagar(P), Bethamcherla(M), Kurnool Dist.	CPDCL
257	K.Mallikarjun, Praja Vidyasdala, Done, Done(P), Done(M), Kurnool Dist.	CPDCL
258	V.Gopal, Siddartha labs, Kodumuru(P), Kodumuru(M), Kurnool Dist.	CPDCL
259	M.Yagantayya, H.No.4/334, Kothapet(V), Kothapet(P), Bethemcherla(M), Kurnool Dist.	CPDCL
260	S.Manhoar, Flat No.307, Sivasai Residency, Prakash Nagar, Kurnool Dist	CPDCL
261	A.C.Pulla Reddy, R.S.Rangapuram(V), R.S.Rangapuram(P), Bethemcherla(M), Kurnool Dist.	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
262	A.Prasad, Ullandakonda(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
263	D.Praveen Kumar, Gani(V), Gani(P), Gadivemula(M), Kurnool Dist.	CPDCL
264	C.Harikrishna, Lingapuram(V), Lingapuram(P), Nandyal(M), Kurnool Dist.	CPDCL
265	A.Dilip Kumar, Ullandakonda(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
266	K.Usman, Ullandakonda(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
267	S.Ahmed Rasool, Ullandakonda(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
268	K.Manikyam, Lakshmipuram(V), Doopadu(P), Kalluru(M), Kurnool Dist.	CPDCL
269	B.Maddaiah, Done(V), Done(P), Done(M), Kurnool Dist.	CPDCL
270	M.Sadananda Reddy, H.No.6/23, R.S.Road, Done(P), Done(M), Kurnool Dist.	CPDCL
271	A.B.Narayana,MLO, Mandal Parishad, Pattikonda(P), Pattikonda(M), Kurnool Dist.	CPDCL
272	Dr.Mahaboob Pasha, Panyam(V), Panyam(P), Panyam(M), Kurnool Dist.	CPDCL
273	P.Surappa, Govt.I.T.I.College, Done(P), Done(M), Kurnool dist.	CPDCL
274	P.Sankar, 5/21, Near Post office, R.S.Rangapuram(V), Kurnool Dist.	CPDCL
275	S.Mallika, H.No.49/50/87-B1, Lakshmi Nagar, Kurnool, Kurnool Dist.	CPDCL
276	V.Ramudu, Gonegandla(V), Gonegandla(P),Gonegandla(M), Kurnool Dist.	CPDCL
277	M.Manohar, Manohar enterprises, Bethamcherla, Bethamcherla(P), Bethemcherla(M), Kurnool Dist.	CPDCL
278	S.Usman Basha, H.Khervadi(V), H.Khervadi(P), Gonegandla(M), Kurnool Dist.	CPDCL
279	Dasgiri, M.P.Elementary School, Rudravaram(V), Rudravaram(P), Rudravaram(M), Kurnol Dist.	CPDCL
280	G.Thimmappa, MPPS B.C.Colony, Tugli(V), Tugli(P), Tugli(M), Kurnool Dist.	CPDCL
281	G.Prasad, MPUP School(B.S.), Gonegandla(P), Gonegandla(M), Kurnool Dist.	CPDCL
282	Damoder reddy, Yaparlapadeu(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
283	T.Laxmi Reddy, Kothakota(V), Kothakota(P), Done(M), Kurnool Dist.	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
284	T.Sarvothama Reddy, Nakkalavagu palli(V), Kothakota(P), Done(M), Kurnool Dist.	CPDCL
285	T.Pulla Reddy, Kotha Kota(V), Kothakota(P), Done(M), Kurnool Dist.	CPDCL
286	K.Siva Reddy, N.Rangapuram(V), N.Rangapuram(P), Papili(M), Kurnool Dist.	CPDCL
287	Maheswar Reddy, Yaparkapadu(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
288	S.Lalbasha, Ullandakonda(V), Ullandakonda(P), Kalluru(M), Kurnool Dist.	CPDCL
289	Ch.Ravi Kumar, Kondapal(V), Kondapal(P), Damaercherla(M), Nalgonda Dist.	CPDCL
290	R.Balu Naik, Alsayipalem(V), Alsayipalem(P), Damaercherla(M), Nalgonda Dist.	CPDCL
291	B.Parvathi, H.No.37-30, Vallabh Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
292	Y.Sanathi, H.No.37-30, Vallabh Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
293	P.Vanitha, H.No.39-63, Bandaru Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
294	Sudha, New Town Colony, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
295	K.Sunanda, H.No.33-60/1, Bandaru Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
296	V.Viond, H.No.33-92/1, Bandaru Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
297	G.P.Madan Gopal, H.No.77/187-B6, A.P.S.Police Colony, Kalluru Estate, Kalluru Mandal, Kurnool Dist.	CPDCL
298	B.Rajasekhar, MPUP School, Gospadu(V), Gospadu(P), Gospadu(M), Kurnool Dist.	CPDCL
299	S.M.Khallel, MP Elementary School, Kovelguntla(V), Kovelguntla(P),Kovelaguntla(M), Kunrool Dist.	CPDCL
300	Ramu, Photo Studio, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist., Pin:509103	CPDCL
301	Abdul Khali, Teacher, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist.	CPDCL
302	Afzal, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist.	CPDCL
303	K.Bhasker, Bonayipalem(V), Bonayipalem(P), Tripuraram(M), Nalgonda Dist.	CPDCL
304	K.Sivalingam,New Town Colony, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist.	CPDCL
305	K.Rammohan, Tadiparthi(V), Tadiparthi(P), Gopalpet(M), Mahaboobnagar Dist.	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
306	G.Srinivasulu, H.No.10-33-108, Bandaru Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
307	C.Venkat Reddy, Savayigudem(V), Savayigudem(P),Wanaparthy(M), Mahaboobnagar Dist	CPDCL
308	B.Arumallesh, Brahmamgari Veedhi, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist	CPDCL
309	P.Santhi Priya, H.No.42-122/2, Vengalarao nagar Colony, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
310	M.Upender,H.No.14-29/1, Hanuman Tekedi, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin:509103	CPDCL
311	V.Abraham, Amnagal(V), Amangal(P), Amangal(M), Nalgonda Dist.	CPDCL
312	C.Ashok, Reddy Colony, Miryalaguda(P), Miryalaguda(M), Nalgonda Dist.	CPDCL
313	V.Ravi Kumar, Bandaru Nagar, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
314	C.Thimma Reddy,Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
315	K.Janardhan, Amara Chinta(V), Amarachinta(P), Atmakur(M), Mahaboobnagar Dist.	CPDCL
316	Sreekar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
317	Vijay Kumar, Gopala Denne(V), Gopala Denne(P), Panagal(M), Mahaboobnagar Dist.	CPDCL
318	R.Vekataswamygoud, Veligonda(V), Veligonda(P), Veepanagandla(M), Mahaboobnagar Dist.	CPDCL
319	K.Madhusudhan, Sugur(V), Sugur(P), Pebberu(M), Mahaboobnagar Dist. Pin:509104	CPDCL
320	Sekhar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
321	Anjaneyulu, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
322	Ramangoud, Veligonda(V), Veligonda(P), Veepanagandla(M), Mahaboobnagar Dist.	CPDCL
323	Venkatesh, Madanapuram(V), Madanapuram(P), Kothakota(M), Mahaboobnagar Dist.	CPDCL
324	Ramaswamy, Maistry, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
325	K.R.Ravisagar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
326	Dr.L.Muralidhar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
327	Narasimha, Cycletaxi, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
328	Chandrasekhar, Teacher, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
329	B.Venkataram Reddy, H.No.46-9/2, KDR Nagar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
330	V.Madhavi Latha, H.No.42-238/2, RTC Colony, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
331	P.Kavitha, Sai Nagar Colony, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
332	K.Nageswara Rao, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
333	A.Vinod Kumar, H.No.1-3-12, Kollapur(V), Kollapur(P), Kollapur(M), Mahaboobnagar Dist.	CPDCL
334	K.Verayya, Bandaru Nagar, Wanaparthy, Wanaparthy(P), Wanaparthy(M), Mahaboobnagar Dist. Pin: 509103	CPDCL
335	Venkatesh, Sarpanch, Nagarala(Village), Nagarala(Post), Pebberu(Mandal), Mahaboobnagar Dist.	CPDCL
336	Venkatesh, Nagavaram(V), Nagavaram(P), Wanaparthy(M), Mahaboobnagar Dist.	CPDCL
337	Srinivasulu, Jagath Palle (V), Jagath Palle (P), Peddamanthadi(M), Mahaboobnagar Dist.	CPDCL
338	Venkatanna, Yaparlla(V), Yaparlla(P), Pebberu(M), Mahaboobnagar Dist.	CPDCL
339	GMR International Airport Ltd., 2nd Floor, "Aparna Crest", Road No.2, Banjara Hills, Hyderabad-500034	CPDCL
340	Sarampalli Malla Reddy, H.No.1-1-60/2, RTC X Roads, Musheerabad, Hyderabad-20.	ALL DISCOMs
341	Dr.L.Muralidhar, State President, Jana Vignana Vedika(A.P.), H.No.42-242, Praja Vaidyasala, Wanaparthy - 509103, Mahabubnagar Dist	ALL DISCOMs
342	Ch.Diwakar Babu, Secretary, Consumers Guidance Society, D.No.56-11-13/1, 1st floor, Sri Devi Complex, Y.V.R.Street, Opp.Donka Road, patamata, Vijayawada - 520010	ALL DISCOMs
343	CE/Commercial, APGenco, Vidyut Soudha, Hyderabad - 500 082	ALL DISCOMs
344	A.Vikram Reddy, S/o A.Vivekananda Reddy, Aragonda(village &Post), Tavanampalli(M), Chittoor Dist. Pin:517129	SPDCL
345	P.Venkateswara rao, D.No.5-60-78/1, 5th line, Cobadpet, Guntur	SPDCL
346	S.Raja Reddy, S/o Muni Reddy, Karina Palle, P.Kothakota(P), Pakala(S.O.), Chittoor Dist. Pin:517112	SPDCL
347	Gunda Narayana Swamy, S/o Gunda Narayana, D.No.6-69, Kesav Nagar, Dharmavaram, Ananthapur Dist. Pin:515671	SPDCL
348	Dussa Krishna, S/o Dussa Pedda Rajappa, D.No.30-637, Kothapet, Dhamavaram, Ananthapur Dist, Pin:515672	SPDCL
349	Madana Ramanjaneyulu, S/o Kondanna, D.No.8-155, Gandhi Nagar, Dharmavaram, Ananthapur Dist., Pin: 515671	SPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
350	A.Bhasker Reddy, C/o A.C.Bontha Reddy, Karinapalli, P.Kothakota(P), Pakala(S.O.), Chittoor Dist. Pin:517112	SPDCL
351	Kakarla Vanadrinaidu, S/o Kakarla Ramayya Naidu, Surinenivari Palle (V), Pakala(P), Pakala(S.O), Chittoor Dist. Pin: 517112	SPDCL
352	Y.Siddiah Naidu, S/o. Varadayyaih Naidu, Diguvamagam(V), Diguvamagam(P), Tavanampalli(M), Chittoor Dist., Pin:517129	SPDCL
353	W.Raja Naidu, S/o W.Ramanaidu, Secretary, Thavanam Palle Mandala Raithu Samaakhya, Diguvamagam (Village & Post), Tavanampalle(M), Chittoor Dist. Pin:517129	SPDCL
354	K.Muniratnam Naidu, S/o K.Munappa naidu, Veerlagudipalli(V), Diguvamagam, Thavanam Palle (M), Chittoor Dist., Pin:517129	SPDCL
355	Anubham Venkateswarlu, S/o Radhakrishna Murthy, Bhavana Rushipet, Epurupaelm (P), Chirala(M), Prakasam Dist., Pin:523166	SPDCL
356	K.Sankar Reddy, Advocate, D.No.24-9, Lakshmi Nagar Colony, Chittoor - 517001	SPDCL
357	K.Rajender Reddy, President, Rashtriya Raithu Seva Samathi, P.Kotha Kota, Via Pakala, Chittoor Dist., Pin:517112	SPDCL
358	Yellapu Suryanarayana, State Secretary, Bhartiya Kisan Sangh, Chinnapet(V), Siripuram(P), Pattipadu(S.O.), East Godavari Dist., Pin:533432	EPDCL
359	V.S.Krishna, 54-11-59/2, Gazetted Officer's Colony, Visakhapatnam - 530 022	EPDCL
360	R.Kuppa Naidu, 1-1-9/10, Jawahar Nagar, RTC X Roads, Hyderabad - 20	NPDCL
361	Rice Millers Association, Jammikunta, Karimnagar Dist	NPDCL
362	Katkam Yadagiri, Advocate, 7-1- 173, Sainagar, Hanmakonda, Warangal Dist.	NPDCL
363	Burra Ramulu, President, Human Rights Forum, H No: 5-11-668, University Colony, Opp.K.U.Campus First Gate, Hanmakonda, Warangal - 506009	NPDCL
364	B.Venkat Reddy, President, 1st Executive Committee, Sanskruti Township, APHB-Pocharam, Ghatkesar Mandal, R.R.Dist - 500088	CPDCL
365	RAOG Prabhakar, Co-ordinator, 221, Jalavayu Vihar, Near Siva Parvathi Theatre, Kukatpally, Hyderabad - 72	CPDCL
366	V.Sanjeeva Reddy, Pamanagandla(V), Kattamguru(M), Nalgonda dist Pin:508205,	CPDCL
367	T.Ramakrishna, S/o T.Venkata Swamy, C/o 1-7-507/15, Hari Nagar, Jamistanpur, Musheerabad, Hyderabad - 500020	CPDCL
368	Paramesh, Raithu Sangham, Peddakadabaru(P), Peddakadabaru(M), Kurnool dist	CPDCL
369	Chandrasekhar Reddy, Raithu Sangham, Emmigannur(P), Emmigannur(M), Kurnool Dist.	CPDCL
370	Talari Nagesh, Santhram Kudluru(V), Adoni(M), Kurnool Dist.	CPDCL
371	A.Srinivasulu, S/o Narasappa, Arigeri(V), Arigeri(P), Kethalam(M), Kurnool Dist	CPDCL

Sl. No.	Name and Address of the Objector	Objection Related to
372	V.Eranna, S/o Hanumanthappa, Doddanagari(V&P), Adoni(M), Kurnool Dist	CPDCL
373	B.Ayyappa, S/o Eranna, Arekallu(V&P), Adoni(M), Kurnool Dist.	CPDCL
374	K.Mallaiah, CPM Secretary, Kowtalam(M)	CPDCL
375	K.Venkatesulu, S/o Late Mukaiah, Pandavagallu(V), Kuppagallu(P), Adoni(M), Kurnool Dist.	CPDCL
376	S.Venkatewarlu,s/o Roganna, Lingadahalh(V&P), Holagunda(M), Alur(T.Q.), Kurnool Dist.	CPDCL
377	E.Sanjeevaiah, S/o Late Pedda Ranganna, C/o Aluru Akula Tamappa, Aluru(M &P), Kurnool Dist.	CPDCL
378	A.Venkateswarlu, CPM Party Office, Patthikonda(P&M), Kurnool dist.	CPDCL
379	U.G.Srinivasulu, Advocate, 21/2/15/10B, S.K.D.Colony, Adoni - 518301, Kurnool Dist.	CPDCL
380	R.K.Agarwal, All India Induction Furnance Association, South Central Region, D.No.5-5-103 to 105/6, Meher Complex, 1st Floor, Rani Gunj, Secunderabad - 500 003	CPDCL
381	Bonthala Chandra reddy, H.No.1-1-60/2, RTC X Roads, Musheerabad, Hyderabad -20.	CPDCL
382	V.Amereswar, Dist Secretary, A.P.Raithu Sangham, Flat No.130, Vivekananda nagar, Tukuguda (V), Mankhal (P), Maheswaram (M), Ranga Reddy Dist. Pin:501359	CPDCL
383	M. Anantha Reddy, President, Indian Nurserymen Association Andhra Pradesh Chapter, No.6-3-1104, Somajiguda, Raj Bhawan Road, Hyderabad - 500 082	CPDCL
384	S.Suryanarayana, H.No.12-5-149/4/4, Sri sai Apartments, Vijayapuri Colony, South Lallaguda, Secunderabad - 500 017	CPDCL
385	G.Kishan Reddy, MLA, No: 205, MS-II, Old MLA Qrts, Hyderguda, Hyderabad-500029	ALL DISCOMs
386	K.Raghu, H.No.3-6-27/2, Opp.Pension office, Near Skyline Theatre, Bhasheer Bagh, Hyderabad - 29	ALL DISCOMs
387	Kommidi Narsimha Reddy, Ex-MLA, Convenor, Praja Chaitnya Vedika, AB2#205, Singapur Township, Pocharam - 500088, RR Dist	ALL DISCOMs
388	Rachamalla Punnamacharyulu, Akhila Bharatheeya Viswakarma Parishat, Thilak Bhavan, T.R.T.141, Street No.9, Jawahar Nagar, Hyderabad - 560020	ALL DISCOMs
389	M.Venugopal Rao S/o M. Venkat Rayudu, Special Correspondent, Prajasakti,Telugu daily, H.No.7-1-408 to 413, Flat.No.203, Sai Darsan Residency, Balkampet Road, Ameerpet, Hyd-16	ALL DISCOMs
390	B.V.Raghavulu, State Secretary, CPI (M), H.No.1-1-60/2, M.B.Bhavan, RTC X Roads, Musheerabad, Hyderabad - 500 020	ALL DISCOMs
391	B.N.Prabhakar, 16-11-405/10, SBI Officers Colony, Moosarambagh, Hyderabad - 500036	ALL DISCOMs
392	B.Subhasini, 16-11-405/10, SBI Officers Colony, Moosarambagh, Hyderabad - 36	ALL DISCOMs

Sl. No.	Name and Address of the Objector	Objection Related to
393	D.Kavitha, 6-3-609/24/1, Ananda nagar colony, Khairatabad, Hyderabad -4	ALL DISCOMs
394	M.Venkateswarlu, 16-93, Flat No.102, Shanmayi Residency, Road No.3, Sri Krishna Nagar Colony, Hyderabad - 60	ALL DISCOMs
395	P.S.Chiranjeevi, 1-1-336/95, Vivek Nagar, Chikkadpally, Hyderabad - 20	ALL DISCOMs
396	K.Dharmarjuna Reddy,1-6-141/8/1/1/1, Vidya Nagar Colony, Suryapet - 508213	ALL DISCOMs
397	Gade Diwakar, Secretary, All India Kisan Mazdoor Sabha(AP), Marx Bhavan, H.No.658, Vidya Nagar, 7th Lane, Hyderabad - 44	ALL DISCOMs
398	M.Thimma Reddy, People's Monitoring group on Electricity Regulation, c/o Centre for environment concerns, 3-4-142/6, Barkatpura, Hyderabad - 500 027	ALL DISCOMs
399	P.Pandu, H.No.5-52/9, RTC Colony, Kuda Kuda (Village & Post), Suryapet - 508220, Nalgonda Dist.	ALL DISCOMs
400	N.Gangadhar, H.No.3-5-430, Nutan Nahar, Maisamma Veedhi, Kotagally, Nizamabad - 503001	ALL DISCOMs
401	M.Kalavathi, H.No.10-5-458/1, Tukaramgate, North Lalaguda, Secunderabad - 17	ALL DISCOMs
402	M.Sreelatha, H.No.10-5-458/1, Tukaramgate, North Lalaguda, Secunderabad - 17	ALL DISCOMs
403	J.P.V,Raju, F-506, Block-C, Siddam Setty Towers, Jawahar Nagar, Hyderabad - 500 020	ALL DISCOMs
404	Kandarapu Murali, Communist Party Of India(Marxist), Chittoor district Committee, M.B.Bhavan, Yasoda nagar, Tirupathi - 517507	ALL DISCOMs

ANNEXURE-C
WHEELING TARIFF SCHEDULE 2009-10 to 2013-14

PART-A

APPLICABLE TO ALL LICENSEES

Applicability

Applicable for use of distribution system for wheeling of electricity of a licensee by other licensees, generating companies, captive power plants and consumers who are permitted open access as per terms and conditions of Open Access Regulation, (2 of 2005) and any other person(s).

Terms and Conditions

The Distribution licensee shall deliver the quantum of energy and capacity given to it for wheeling, reduced by the distribution losses.

The wheeling charges and losses in kind shall be up to the respective voltage level at which the wheeled electricity's delivered or injected whichever voltage is lower;

Wheeling charges / losses are payable for the contracted demand of the open-access user at the entry point of the consumer.

If the wheeling involves transmission of electricity through transmission system of a Transmission Licensee, the consumer or the supplier as the case may be, has to pay the applicable transmission charges and transmission losses in kind also. Transmission system is considered to be involved in the wheeling of electricity in the following cases:

Entry/Exit point is connected to the EHT system.

The entry and exit points are connected to the networks of more than one DISCOM.

If the wheeling of electricity is through the distribution system of more than one distribution licensee, the wheeling charges shall be payable to the distribution licensee of the area where the electricity is delivered.

The levy of wheeling tariff is subject to the terms and conditions approved by the Commission from time to time.

PART-B

CPDCL: WHEELING TARIFF SCHEDULE FOR FY2009-10 TO 2013-14

A: CHARGES/RATES							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV (Rs./kVA/Month)	27.12	30.38	32.39	32.66	33.43		
11 kV (Rs./kVA/Month)	185.94	192.55	206.56	207.47	204.79		
LOW TENSION (Rs./kVA/Month)	671.71	634.57	669.17	658.76	649.23		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.07%	8.87%	16.16%	33 kV	4.04%	8.60%	15.00%
11 kV	8.87%	5.00%	12.60%	11 kV	8.60%	4.75%	11.42%
LT	16.16%	12.60%	8.00%	LT	15.00%	11.42%	7.00%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.02%	8.34%	13.84%	33 kV	3.99%	8.07%	13.36%
11 kV	8.34%	4.50%	10.23%	11 kV	8.07%	4.25%	9.76%
LT	13.84%	10.23%	6.00%	LT	13.36%	9.76%	5.75%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.96%	7.80%	12.50%				
11 kV	7.80%	4.00%	8.90%				
LT	12.50%	8.90%	5.10%				

PART-C

EPDCL: WHEELING TARIFF SCHEDULE FOR FY2009-10 TO 2013-14

A: CHARGES/RATES							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV (Rs./kVA/Month)	19.40	19.81	20.56	21.07	21.85		
11 kV (Rs./kVA/Month)	177.21	182.81	188.49	192.89	198.12		
LOW TENSION (Rs./kVA/Month)	581.41	606.96	625.10	641.32	656.89		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.62%	7.79%	12.72%	33 kV	3.56%	7.73%	12.63%
11 kV	7.79%	4.33%	9.45%	11 kV	7.73%	4.32%	9.40%
LT	12.72%	9.45%	5.35%	LT	12.63%	9.40%	5.31%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.51%	7.67%	12.48%	33 kV	3.47%	7.59%	12.33%
11 kV	7.67%	4.31%	9.30%	11 kV	7.59%	4.27%	9.18%
LT	12.48%	9.30%	5.21%	LT	12.33%	9.18%	5.13%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.39%	7.47%	12.10%				
11 kV	7.47%	4.22%	9.02%				
LT	12.10%	9.02%	5.01%				

PART-D

NPDC: WHEELING TARIFF SCHEDULE FOR FY2009-10 TO 2013-14

A: CHARGES/RATES							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV (Rs./kVA/Month)	11.56	12.29	12.73	12.7	12.45		
11 kV (Rs./kVA/Month)	124.08	133.14	141.26	143.73	140.69		
LOW TENSION (Rs./kVA/Month)	324.23	338.19	353.72	357.51	345.92		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.50%	9.28%	15.63%	33 kV	4.25%	8.85%	14.41%
11 kV	9.28%	5.00%	11.65%	11 kV	8.85%	4.80%	10.61%
LT	15.63%	11.65%	7.00%	LT	14.41%	10.61%	6.10%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.10%	8.51%	13.91%	33 kV	4.00%	8.32%	13.59%
11 kV	8.51%	4.60%	10.23%	11 kV	8.32%	4.50%	9.99%
LT	13.91%	10.23%	5.90%	LT	13.59%	9.99%	5.75%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.90%	8.08%	13.14%				
11 kV	8.08%	4.35%	9.61%				
LT	13.14%	9.61%	5.50%				

PART-E

SPDCL: WHEELING TARIFF SCHEDULE FOR FY2009-10 TO 2013-14

A: CHARGES/RATES							
Voltage/Year	2009-10	2010-11	2011-12	2012-13	2013-14		
33 kV (Rs./kVA/Month)	25.61	28.21	28.49	29.6	27.38		
11 kV (Rs./kVA/Month)	169.76	183.03	184.48	191.22	180.53		
LOW TENSION (Rs./kVA/Month)	364.98	380.81	375.27	384.88	363.66		
B: WHEELING LOSSES							
2009-10	Supply Point			2010-11	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	4.00%	8.65%	14.13%	33 kV	3.75%	8.18%	13.32%
11 kV	8.65%	4.84%	10.55%	11 kV	8.18%	4.60%	9.94%
LT	14.13%	10.55%	6.00%	LT	13.32%	9.94%	5.60%
2011-12	Supply Point			2012-13	Supply Point		
Drawn At	33 kV	11 kV	LT	Drawn At	33 kV	11 kV	LT
33 kV	3.60%	7.84%	12.82%	33 kV	3.50%	7.65%	12.45%
11 kV	7.84%	4.40%	9.56%	11 kV	7.65%	4.30%	9.28%
LT	12.82%	9.56%	5.40%	LT	12.45%	9.28%	5.20%
2013-14	Supply Point						
Drawn At	33 kV	11 kV	LT				
33 kV	3.40%	7.51%	12.22%				
11 kV	7.51%	4.25%	9.13%				
LT	12.22%	9.13%	5.10%				

ANNEXURE-D
SCHEDULE OF RETAIL TARIFF RATES AND TERMS AND
CONDITIONS IN RESPECT OF THE FOUR DISTRIBUTION
COMPANIES FOR FY2009-10

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 H.P/56 kW excepting the LT III (B) industrial category.

H.T. CATEGORY - I

This tariff is applicable for supply to all H.T. Industrial Consumers. 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 and other similar premises notwithstanding any manufacturing, processing or preserving goods for sale. 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 come under this category. The Information Technology units identified and approved by the Consultative Committee on IT industry (CCITI) constituted by Govt. of AP also fall under this category.

A) INDUSTRY - GENERAL

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges Rs/kVA/month of Billing Demand	Energy Charges Paise/unit
132kV and above	250	270
33Kv	230	295
11kV	195	320

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 units per kVA of billing demand whichever is higher.

FSA will be extra as applicable

B) FERRO ALLOY UNITS

DEMAND CHARGES & ENERGY CHARGES		
	Demand Charges Rs/kVA/month of Billing Demand	Energy Charges Paise/unit
Ferro Alloys	Nil	240

Conditions

- i. Guaranteed energy off-take at 6701 units per kVA per annum (at 85% annual Load Factor) on Average Contracted Maximum Demand or Average Actual Demand whichever is higher. The energy falling short of 6701 units per kVA per annum will be billed as deemed consumption.
- ii. The consumer shall draw his entire power requirement from DISCOMs only.
- iii. Not eligible for HT-I(A) Load Factor incentive.

FSA will be extra as applicable

Notes:

1) Incentive

- a) The following incentives are applicable for HT-category-I (A) consumers:

<u>Load Factor (LF)</u>	<u>Discount applicable on the energy rates</u>
More than 50% up to 70%	25% on the energy above 50% LF
More than 70%	25% on the energy above 40% LF

- b) The incentive scheme is applicable for the consumption with the above mentioned load factors. This scheme will be effective till 31 March 2010.
- c) The procedure for computing the load factor incentive shall be as per the methodology to be communicated separately by the Commission.

2) Consumption of energy for lights and fans in factory

The consumption of energy for lights and fans in the factory premises in excess of 10% of total consumption shall be billed at 440 paise per unit provided lights and fans consumption in the Unit is separately metered.

3) 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 440 paise per unit and the balance units shall be charged at the corresponding energy tariff under HT category -I(A).

4) 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 400 paise per unit.
- b) In case segregation of colony consumption has not been done, 15% of the total energy consumption shall be billed at 400 paise per unit and the balance units 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.

5) 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 year and his main plant is regularly closed down during certain months of the 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 under H.T. Category-II rates.

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand ChargesRs/kVA /month of Billing Demand#	Energy Charges Paise/unit
132kV and above	250	360
33Kv	230	380
11kV	195	430
# Based on the Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher		

FSA will be extra as applicable

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 seasonal tariffs will also be permitted to opt for seasonal tariff on the basis of application to the concerned Superintending Engineer of the Licensee.
- iv. The seasonal period once declared cannot be changed, during the Tariff year in which it is declared.
- v. The off-season tariff is not available to composite units having seasonal and other categories of loads.
- vi. 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.
- vii. Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that year.
- viii. Development charges @ Rs.500/- per kVA, shall be paid by the consumer in advance 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 as specified here.

H.T. CATEGORY-II (Non - Industrial)

This tariff is applicable to all H.T. Consumers other than those covered under other H.T. Categories:

DEMAND CHARGES & ENERGY CHARGES		
Voltage of Supply	Demand Charges Rs/kVA/ month of Billing Demand	Energy Charges Paise/unit
132kV and above	250	360
33Kv	230	380
11kV	195	430

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 units** per kVA of Billing Demand, whichever is higher.

FSA will be extra as applicable

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 unit 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 units consumed during the month .. **236 paise/unit**

FSA will be extra as applicable if it is for purposes other than agriculture

H.T. CATEGORY -IV(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/unit

NOTE:

- i. If the consumer does not maintain the capacitors of requisite capacity as indicated in PART-‘D’ of this Annexure, the consumer attracts the penal provisions as per the General Terms and Conditions of Supply notified by the licensees from time to time, as also indicated in Note 4 in Part ‘D’ of this Annexure.

- 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.
- iv. The Low Power Factor surcharge condition mentioned in General conditions of HT Supply under part 'A' HT - Tariffs shall be applicable for Govt. lift irrigation schemes.

H.T. CATEGORY-V - RAILWAY TRACTION

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

NO DEMAND CHARGES

ENERGY CHARGES

For all units consumed 395 paise per unit

IMPORTANT

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

FSA will be extra as applicable

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
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Non-domestic/Commercial & General purpose put together	10% of total connected load
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NO DEMAND CHARGES

ENERGY CHARGES

For all units consumed	...	400 paise per unit
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IMPORTANT

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

FSA will be extra as applicable

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.

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/Unit

Detailed Terms and Conditions of consumption Green Power shall follow but essentially;

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

COMPOSITE PUBLIC 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 35/Unit
Minimum Charges Rs.300/HP/Year

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	11000 Volts
1501 kVA to 5000 kVA	33000 Volts
Above 5000 kVA	132000 Volts or 220000 Volts 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	11000 Volts
2501 kVA to 10,000 kVA	33000 Volts
Above 10000 kVA	132000 Volts or 220000 Volts

The relaxations are subject to the fulfillment of following conditions:

- i. The consumer should have an exclusive dedicated feeder from the substation where transformation to required voltage takes place.
- ii. The consumer shall pay full cost of the service line as per standards specified by APTRANSCO/DISCOM including take off arrangements at substation;

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: The FSA will be extra as applicable					

(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) SURCHARGE FOR LOW POWER FACTOR

The power factor for the month shall be the ratio of Kilo-Watt hours to the Kilo-Volt-Ampere Hours supplied to the consumer during the month. The power factor shall be calculated upto two decimal places. The power factor of the consumer's installation shall not be less than 0.95. If the power factor falls below 0.95 during any month, the consumer shall pay a surcharge as detailed below:

Sl. No	Power Factor Range	Surcharge
1	Below 0.95 & upto 0.90	0.5% of energy charges on actual energy consumed in that month for every 0.01 fall in Power Factor from 0.95
2	Below 0.90 & upto 0.85	1% of energy charges on actual energy consumed in that month for every 0.01 fall in Power Factor from 0.90
3	Below 0.85 & upto 0.80	1.5% of energy charges on actual energy consumed in that month for every 0.01 fall in Power Factor from 0.85
4	Below 0.80 & upto 0.75	2% of energy charges on actual energy consumed in that month for every 0.01 fall in Power Factor from 0.80
5	Below 0.75	3% of energy charges on actual energy consumed in that month for every 0.01 fall in Power Factor from 0.75

The surcharge for low power factor will be effective from 1st April 2009. The necessary amendments to General Terms and Conditions of Supply shall be carried out with regard to surcharge for low power factor.

Should the power factor drop below 0.75 and so remain for a period of 2 consecutive months it must be brought up to 0.95 within a period of 6 months by methods approved by the Licensee failing which, without prejudice to the right of the Licensee to collect surcharge and 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.

(6) 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.

Excess RMD over CMD	Demand Charges on Excess Demand	Energy Charges on Excess Energy
100 to 120 %	2 times of normal charge	Normal
Above 120 % and up to 200 %	2 times of normal charge	1.5 times of normal charge
More than 200%	2 times of normal charge	2 times of normal charge
<i>Excess demand and energy shall be computed as follows;</i>		
Excess Demand	=(RMD-CMD) if RMD is more than CMD with Licensee.	
Excess Energy	=(Excess Demand/RMD) x Recorded Energy	

(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. 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 installments at 18% per annum 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 to all categories except agriculture. FSA is applicable as notified by the Commission from time to time as per the regulations made by the Commission in this behalf.

- (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
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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.

Rates

Consumers shall pay electricity charges as shown below:

0-50 units per month	145 paise per unit
51-100 Units/month	280 paise per unit
101-200 Units/month	305 paise per unit
201-300 Units/month	475 paise per unit
Above 300 Units/month	550 paise per unit

Subject to monthly minimum charges of:

Single Phase:

Upto 250 W	Rs.25/ Month
Above 250 W	Rs.50/ Month
Three Phase	Rs.150/ Month

FSA will be extra as applicable

Notes:

1. For loads less than 3KW 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, 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 Rs.20 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 - NON-DOMESTIC AND COMMERCIAL

Applicability

Applicable for supply of energy for lights and fans for non-domestic and commercial purposes excluding loads falling under L.T. Categories I; III to VII and shall include supply of energy for lighting, fans, heating and power appliances in Commercial and Non-Domestic premises such as shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theaters, cinema halls, railway stations, Timber Depots, Photo Studios and other similar premises.

The Educational Institutions run by individuals, Non-Government Organisations or Private Trusts and their student hostels are also classified under this category. Exclusions for this would be those that qualify to be under Category LT-VII.

Consumers shall pay electricity charges as shown below:

First 50 Units /month	385 Paise per Unit
Above 50 Units/ month	620 Paise per Unit
Monthly Minimum Charges	Rs. 65 per month for Single Phase Rs.200 per month for Three Phase

FSA will be extra as applicable

Notes:

1. For Loads less than 3 kW single phase supply only will be given.
2. For loads 10 kW and above, a LT trivector meter shall be provided.
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. The consumers provided with metering capable of measuring active and reactive power as per the provision 2 above shall be required to pay LPF surcharge as applicable for HT consumers for the low power factor during billing month subject to ceiling of the level of capacitor surcharge specified for LT consumers under Part-D herein.

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. 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.
- iv. Floriculture in Green Houses.
- v. Sugar cane crushing.

Rates:**Industrial - Normal**

	Fixed Charges/ Demand Charges	Energy Charges Paise/unit
(i) Industry(Normal)	Rs37/HP/month of connected load	375
(ii) Industry (Optional)	Rs.100/kVA/month	375
(iii) Tariff for Pisciculture and Prawn culture units with Contracted Load below 10 HP	-----	90
(iv) Sugar cane crushing	-----	50
(v) Poultry Farms with more than 1000 birds.	Rs37/HP/month of connected load	375
(vi) Mushroom production Farms, Rabbit Farms	Rs37/HP/month of connected load	375
(vii) Floriculture in Green-Houses	Rs37/HP/month of connected load	375

Note:

Consumers with connected load between 50 and 75 HP can opt for a two part optional tariff

IMPORTANT FOR LT III(A) INDUSTRIAL-OPTIONAL Demand Tariff Consumers

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

ii)Energy charges will be billed on the basis of actual Energy consumption or **50 units** per kVA of billing demand whichever is higher

FSA will be extra as applicable

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 20HP to below 50HP.
- v. For loads 50 HP to 75 HP the metering will be provided on HT side of the Distribution Transformer.
- vi. The consumers provided with metering capable of measuring active and reactive power as per the provisions in (v) and (vi) above shall be required to pay LPF surcharge as applicable for HT consumers for the power factor obtaining during billing month subject to ceiling of the level of capacitor surcharge specified for LT consumers under Part-D herein.
- vii. The Low Power Factor (LPF) surcharge is applicable as in the case of HT consumers for LT Category III (A) Industrial (ii) - Optional demand tariff category.

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

This tariff is applicable to Small Scale Industrial Units which have been licenced by the Industries Department as bonafide 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. 100/kVA/month	375 paise/unit
IMPORTANT		
<ul style="list-style-type: none"> i. The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher. ii. Energy charges will be billed on the basis of actual Energy consumption or 50 units per kVA of billing demand whichever is higher 		
FSA will be extra as applicable.		

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 50kVA and shall also be specified in the Agreement.
- ii. If the recorded demand exceeds the Contracted Demand mentioned in (i) above, such excess demand shall be billed at the rates prescribed for HT Category - I (11 kV supply).
 - iii. The consumer should erect his own Distribution Transformer and structure initially along with necessary switchgear. The transformer will be maintained by the Licensee.
 - 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 Trivector Meter together with MD indicator. The energy recorded in the meter will be billed at the energy charge mentioned above.
 - vi. The Low Power Factor (LPF) surcharge is applicable as in the case of HT consumers for LT III (B) Category.
 - vii. Customer charges shall be as applicable for HT consumers.
 - viii. 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 redrying 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 year and his main plant is regularly closed down during certain months of the 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.37/HP/Month
ENERGY CHARGES	
For all units of energy consumed	Rs.440 ps/unit
FSA will be extra as applicable	

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

DEMAND CHARGES	
Based on the Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher	Rs. 100 per kVA/Month.
PLUS	
ENERGY CHARGES	
For all the units of energy consumed	440 Paise / unit.
FSA will be extra as applicable	

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 Superintending Engineer of the Licensee.
- iv) *The seasonal period once notified cannot be changed, during one Tariff year.*
- v) The off-season tariff is not available to composite units having seasonal and other categories of loads.
- vi) 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.
- vii) Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that year.
- viii) Development charges @ Rs. 500/- per kVA shall be paid by the consumer in advance 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 as specified here.

L.T. CATEGORY-IV: COTTAGE INDUSTRIES AND DHOBIGHATS

Applicable for supply of energy to Dhobighats & bonafide small Cottage Industries specifically power looms, Carpentry, blacksmithy, Kanchari, Gold smithy, shilpi and pottery having connected load not exceeding 5 H.P. including incidental lighting in the premises. Poultry farming units upto 1000 birds strength subject to certification from concerned DE(Operations) come under this category. If the bird strength 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.

Rates	
For all units consumed	.. 180 Paise per unit
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	

Notes

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

L.T. CATEGORY - V(A) - AGRICULTURAL

Category	Purpose	Fixed charges	Energy Charge Ps/Unit
With DSM measures	Dry Land Farmers (Connections<= 3 Nos.)		0
	Wet Land Farmers (Holdings<=2.5 Acres)		0
	Dry Land Farmers (Connections > 3 Nos.)	*Rs.210/HP/Year	20
	Wet Land Farmers (Holdings >2.5 Acres)	*Rs.210/HP/Year	20
	Corporate Farmers & IT Assesses		100
Without DSM measures	Dry Land Farmers (Connections<= 3 Nos.)	*Rs.210/HP/Year	20
	Wet Land Farmers (Holdings<=2.5 Acres)	*Rs.210/HP/Year	20
	Dry Land Farmers (Connections > 3 Nos.)	*Rs.525/HP/Year	50
	Wet Land Farmers (Holdings >2.5 Acres)	*Rs.525/HP/Year	50
	Corporate Farmers & IT Assesses		200
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

Out of Turn Allotment - Tatkal scheme : Energy Charge
with DSM measures 20paise/unit

Note:

1. Agricultural consumers are permitted to use 1 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.20/- 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

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 units consumed	
Minor Panchayats	: 156 Paise per unit
Major Panchayats	: 208 Paise per unit
Nagarpalikas & Municipalities Gr.3	: 274 Paise per unit
Municipalities Gr. 1 & 2	: 326 Paise per unit
Municipalities Selection / Spl. Gr.	: 353 Paise per unit
Corporations	: 379 Paise per unit
Minimum charges	
Panchayats	: Rs.2 per point per month
Municipalities/Corporations	: Rs.6 per point per month
FSA will be extra as applicable	

B). PWS Schemes:

Minor / Major Panchayats	
Up to 2500 units/year	: 20 paise per unit
Above 2500 units	: 50 paise per unit

All Nagarpalikas & Municipalities

	Energy charges	Fixed charges
Upto 1000 Units	: 375 Paise/Unit	Rs.20/HP/month of contracted load subject to a minimum of Rs.100/-
Balance Units	: 405 Paise/Unit	

Municipal Corporations:

Up to 1000 Units	: 405 Paise/Unit	Rs.20/HP/month of contracted load subject to a minimum of Rs.100/-
Balance Units	: 460Paise/Unit	

FSA will be extra as applicable

Notes (Street Lighting):

- 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.
- 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 W Single Fixture	7.00	4.00
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.

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 units consumed : 400 paise per unit
Minimum charges : Rs.50 per month for single phase supply
: Rs.150 per month for three phase supply
FSA will be extra as applicable

L.T. CATEGORY-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 units : 200 paise per unit
Balance units : 400 paise per unit
Minimum charges shall not be levied on LT-VII(B):Religious Places consumers.
FSA will be extra as applicable

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 units consumed : 620 paise per unit
:Rs.125 per KW or part thereof of contracted load for
Minimum charges 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

Temporary supply for Agriculture Purpose:**Rates**

For all the units consumed : 230 paise per unit
:Rs.100 per HP of contracted load
Minimum charges 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 separately notified 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 to all categories except agriculture. FSA is applicable as notified by the Commission from time to time as per the regulations made by the Commission in this behalf.

5. The Tariffs are exclusive of Electricity duty payable as per the provisions of AP Electricity Duty Act.

6. 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.

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 consumer as per the standards prescribed by the licensee from time to time. 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.	
i) Overhead Services	Rs. 50
ii) U.G. Services	Rs.100
(b)High Tension Services	
i) 11 KV.	Rs.300
ii) 33 KV	Rs.500
iii) 132/220 KV	Rs.1000

III. TESTING

(a) Installations	LT	HT
i) The first test and inspection of a new installation or of an extension to an existing installation.	Nil	Nil
ii) Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply.	Rs.20	Rs.200
(b) Meters	LT	HT
i) A.C. Single Phase Energy meter	Rs. 10	
ii) A.C. Three Phase Energy meter	Rs .30	
iii) Demand or special type meter	Rs.150	Rs.500
(c) Transformer Oils		
i) First sample of oil	Rs.150/-per sample	
ii) 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.		
<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>		
Rs. 20		
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 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		
For all LT Categories inclusive of Agricultural services		Rs.20/- per month*
* Domestic Consumer in the first slab		Rs. 15/- per month
H.T. Categories		
a) 66 KV and below		Rs.750/- per month
b) 132/220 K.V..		Rs.1500/-per month
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		
i) For LT Agricultural & Domestic		Rs. 50
ii) For all other LT Categories		Rs.150
iii) For all HT Categories		Rs.300

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.

(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 labour and material plus 25% on cost of labour and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

PART `D`

POWER FACTOR APPARATUS AND CAPACITOR SURCHARGE

- (1) Every H.T. Agricultural Consumer and every LT consumer using induction motors and/or welding transformers shall install L.T. Shunt capacitors of the rating specified by the Licensees in the General Terms and Conditions of supply 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) New connections under HT Category IV(A),(B), LT Category III(A),(B), LT Category IV and LT Category V shall not be given unless the capacitors of required ratings are installed.
- (3) 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 terms and conditions of supply.
- (4) In the case of consumers not covered by Low Power Factor (LPF) surcharge as per note VII and VIII under LT category III(A), note LT category III(B) and note 4 under LT Category-II, if during inspection, no capacitor is found, or the capacitors already installed are found to be damaged or having defect or ceased to function, such consumer shall be liable to pay surcharge @ 25% of the monthly bill amount, as per the terms and conditions of supply notified by the licensee.
- (5) The LT Category II and LT category III(A) consumers who are provided with metering capable of measuring active and reactive power under the orders of the Commission, shall be required to pay low power factor surcharge as per the rates applicable for HT consumers for the power factor obtaining during the month subject to the ceiling of the level of capacitor surcharge mentioned in item 4 herein.
- (6) Low Power factor surcharge is to be levied for the consumers falling under LT Category III(A)(ii)-Industrial (Optional) and LT III (B) Industrial categories as applicable to HT consumers.

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)													Net Energy Availability (MU)
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
APGENCO															
Thermal															
VTPS I	1.57	260.71	269.40	246.84	255.19	189.30	246.84	189.30	246.84	269.40	269.40	252.01	269.40	2964.64	2964.64
VTPS II	1.57	260.71	269.40	246.84	255.19	80.48	246.84	127.59	185.13	269.40	269.40	252.01	269.40	2732.39	2732.39
VTPS III	1.57	260.71	269.40	246.84	255.19	0.00	132.88	255.19	246.84	196.41	269.40	252.01	269.40	2654.27	2654.27
VTPS IV	1.40	249.84	249.84	249.84	80.45	0.00	0.00	249.84	249.84	249.84	249.84	249.84	249.84	2329.04	2329.04
RTPP I	1.74	259.99	167.44	206.55	0.00	0.00	0.00	0.00	0.00	255.14	229.97	251.32	268.66	1639.06	1639.06
RTPP Stage-II	1.74	261.42	270.14	247.52	0.00	0.00	0.00	30.96	108.44	170.53	270.14	252.71	270.14	1882.02	1882.02
RTPP Stage-III	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.07	113.74	113.74	102.74	113.74	554.04	554.04
KTPS A	1.28	140.43	145.09	132.56	136.89	119.20	82.81	136.89	115.95	145.09	145.09	131.12	145.09	1576.22	1576.22
KTPS B	1.28	140.43	145.02	132.74	137.26	68.63	121.72	137.26	99.33	145.02	145.02	131.06	145.02	1548.52	1548.52
KTPS C	1.28	140.43	145.02	132.74	137.26	101.59	132.74	137.26	99.33	145.02	145.02	131.06	145.02	1592.49	1592.49
KTPS D	1.16	309.51	319.83	293.22	302.99	302.99	219.92	302.99	219.92	238.11	319.83	288.88	319.83	3438.00	3438.00
KTPS Stage VI	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	0.00
RTS B	1.36	36.86	38.04	34.76	35.95	17.38	34.76	35.95	34.76	38.04	38.04	34.40	38.04	416.96	416.96
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	0.00
Kakatiya Thermal Power Plant Stage I	1.16	0.00	0.00	0.00	0.00	245.78	245.78	245.78	245.78	245.78	245.78	245.78	245.78	1966.21	1966.21
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	0.00
TOTAL THERMAL	1.44	2321.04	2288.63	2170.46	1596.37	1125.35	1464.28	1849.01	1962.22	2481.53	2710.68	2574.93	2749.37	25293.86	25293.86
		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
MACHKUND PH AP Share	0.00	24.26	10.30	-0.53	14.41	26.89	26.97	30.35	8.48	6.07	27.96	20.90	23.88	219.93	219.93
TUNGBHADRA PH AP Share	0.00	0.70	-0.85	-0.64	11.86	25.62	26.42	26.30	20.53	17.67	16.34	12.91	13.77	170.62	170.62
USL	0.00	42.83	42.13	25.74	36.10	29.67	12.72	31.04	43.36	48.55	51.29	49.03	68.34	480.80	480.80
LSR	0.00	104.34	103.72	59.63	90.41	98.26	29.59	102.88	104.25	115.17	121.24	113.24	113.17	1155.91	1155.91

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)													Net Energy Availability (MU)
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
DONKARAYI	0.00	11.42	11.22	2.24	6.86	10.54	2.26	11.09	11.59	14.09	14.78	13.59	12.75	122.41	122.41
SSLM	0.00	38.30	26.62	81.02	388.02	397.00	392.97	200.10	64.84	66.25	80.57	128.84	141.71	2006.22	2006.22
NSPH	0.00	9.77	-0.18	3.77	403.91	544.33	541.83	278.03	34.98	31.81	55.54	13.92	34.96	1952.67	1952.67
NSRCPH	0.00	-0.02	-0.03	-0.02	2.80	32.97	45.94	46.48	33.41	22.64	7.46	-0.02	-0.02	191.59	191.59
NSLCPH	0.00	-0.03	-0.05	-0.03	3.03	17.39	21.67	25.84	13.97	6.40	0.16	-0.02	0.02	88.35	88.35
POCHAMPAD PH	0.00	4.12	-0.01	-0.01	0.00	1.53	5.51	13.72	4.74	9.34	8.58	7.23	3.94	58.69	58.69
NIZAMSAGAR PH	0.00	1.88	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	0.39	0.87	1.77	1.59	1.11	7.37	7.37
PABM	0.00	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	1.14	1.08	-0.02	-0.02	-0.02	-0.03	1.99	1.99
MINI HYDRO&OTHERS	0.00	1.52	-0.02	0.07	0.45	1.02	1.50	1.90	0.62	2.12	1.58	1.39	0.91	13.07	13.07
SINGUR	0.00	0.78	-0.03	-0.02	0.19	-0.03	-0.03	-0.02	-0.02	1.47	-0.02	-0.02	-0.02	2.23	2.23
SSLM LCPH	0.86	44.97	18.24	14.63	545.10	490.03	538.41	249.89	49.93	56.89	89.21	149.37	104.30	2350.97	2350.97
Nagarjunasagar Tail Pond Dam Power House	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	0.00
Priyadarshini Jurala Hydro Electric Project- AP Share	0.00	0.00	0.00	1.78	20.85	26.63	41.68	41.68	7.43	5.84	0.00	0.00	0.00	145.89	145.89
Lower Jurala Hydro Electric Project	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	0.00
TOTAL HYDRO	0.22	284.83	211.00	187.56	1523.94	1701.78	1687.38	1060.36	399.56	405.15	476.44	511.93	518.78	8968.70	8968.70
TOTAL APGENCO	1.12	2605.88	2499.63	2358.01	3120.30	2827.13	3151.66	2909.37	2361.79	2886.68	3187.11	3086.86	3268.14	34262.56	34262.56
		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
Central Generating Stations		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NTPC		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 (SR)		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

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)												Net Energy Availability (MU)	
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March		Total
NTPC (SR)	1.34	488.46	505.91	481.48	408.21	488.46	436.13	404.72	488.46	509.39	509.39	457.06	509.39	5687.06	5687.06
NTPC (SR) Stage III	1.28	124.61	128.28	124.61	120.95	73.30	73.30	124.61	124.61	124.61	124.61	120.95	124.61	1389.05	1389.05
Total NTPC(SR)	1.33	613.07	634.19	606.09	529.16	561.76	509.43	529.33	613.07	634.00	634.00	578.01	634.00	7076.11	7076.11
		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 (ER)		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
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	0.00
Kahalgaoon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
Talcher Stage 2	0.76	268.85	277.58	230.56	254.56	276.79	268.06	276.39	267.46	207.34	265.67	249.21	275.59	3118.06	3118.06
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	0.00
Total NTPC(ER)	0.76	268.85	277.58	230.56	254.56	276.79	268.06	276.39	267.46	207.34	265.67	249.21	275.59	3118.06	3118.06
		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	1.16	881.92	911.77	836.65	783.72	838.55	777.49	805.72	880.53	841.34	899.67	827.22	909.59	10194.17	10194.17
		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
NLC TS-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
Stage-I	1.46	52.91	64.60	36.15	70.40	52.66	49.51	49.51	34.62	43.27	62.80	62.59	69.44	648.46	648.46
Stage-II	1.37	96.38	116.07	81.35	84.99	74.01	83.77	83.77	105.17	90.56	113.78	102.56	113.78	1146.19	1146.19
Total NLC	1.41	149.28	180.67	117.50	155.40	126.67	133.28	133.28	139.79	133.83	176.58	165.15	183.22	1794.65	1794.65
		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
NPC		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
NPC-MAPS	1.18	22.26	22.90	11.13	22.90	22.90	22.26	22.90	22.26	22.90	22.90	21.40	22.90	259.58	259.58
NPC-Kaiga unit I	0.99	70.11	72.14	70.11	36.07	72.14	70.11	72.14	70.11	72.14	72.14	67.42	72.14	816.75	816.75
NPC-Kaiga unit II	0.99	78.61	80.93	78.61	80.93	80.93	80.93	78.61	80.93	78.61	80.93	77.29	80.93	958.28	958.28
Total NPC	1.02	170.98	175.97	159.85	139.90	175.97	173.30	173.65	173.30	173.65	175.97	166.10	175.97	2034.62	2034.62
		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 - Simhadri		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 Simhadri	1.15	640.00	663.00	640.00	350.00	663.00	562.00	663.00	640.00	663.00	663.00	596.00	663.00	7406.00	7406.00

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)													Net Energy Availability (MU)
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
Stage I															
NTPC Simhadri 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	0.00
Total NTPC-Simhadri	1.15	640.00	663.00	640.00	350.00	663.00	562.00	663.00	640.00	663.00	663.00	596.00	663.00	7406.00	7406.00
		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	0.00
CGS - New		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
		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 CGS	1.16	1842.18	1931.40	1754.01	1429.02	1804.19	1646.08	1775.65	1833.62	1811.81	1915.22	1754.48	1931.78	21429.43	21429.43
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL I - Allocated capacity	1.18	5.33	5.51	5.33	5.51	5.51	5.33	5.51	5.33	5.51	5.51	4.97	5.51	64.82	64.82
APGPCL I - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL II - Allocated capacity	0.88	22.40	23.14	22.40	23.14	19.41	22.40	23.14	22.40	23.14	23.14	20.90	23.14	268.74	268.74
APGPCL II - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total APGPCL	0.93	27.72	28.65	27.72	28.65	24.91	27.72	28.65	27.72	28.65	28.65	25.88	28.65	333.57	333.57
		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
IPPS		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
GVK	1.28	105.56	140.83	136.29	140.83	140.83	133.17	133.32	136.29	137.74	108.09	127.20	140.83	1580.96	1580.96
Spectrum	1.24	137.56	139.36	135.23	138.94	141.59	132.74	78.98	141.33	146.13	146.82	125.71	143.74	1608.13	1608.13
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	0.00
Kondapalli (Gas)	1.34	257.11	253.01	183.24	265.68	265.68	257.11	265.68	257.11	265.68	265.68	239.97	265.68	3041.65	3041.65
BSES	1.21	154.44	159.59	149.29	159.59	72.07	61.78	159.59	154.44	154.44	159.59	144.15	154.44	1683.41	1683.41
GVK Extension	1.78	98.33	101.61	98.33	101.61	101.61	98.33	101.61	98.33	101.61	101.61	91.78	101.61	1196.41	1196.41
Vemagiri	1.78	165.38	170.89	165.38	170.89	170.89	165.38	170.89	165.38	170.89	170.89	154.36	170.89	2012.14	2012.14

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)												Net Energy Availability (MU)	
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March		Total
Gautami	1.78	207.40	214.31	207.40	214.31	214.31	207.40	214.31	207.40	214.31	214.31	193.57	214.31	2523.33	2523.33
Konaseema	1.78	0.00	205.53	198.90	205.53	205.53	198.90	205.53	198.90	205.53	205.53	185.64	205.53	2221.10	2221.10
TOTAL IPPS	1.53	1125.78	1385.14	1274.07	1397.39	1312.53	1254.82	1329.91	1359.19	1396.34	1372.53	1262.38	1397.04	15867.11	15867.11
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE - Bio-Mass	3.16	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	1229.22
NCE - Bagasse	2.92	67.14	64.97	67.14	64.97	67.14	67.14	64.97	70.12	67.85	70.12	70.12	63.33	804.99	804.99
NCE - Municipal Waste to Energy	3.80	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	71.11
NCE - Industrial Waste based power project	3.12	9.75	9.43	9.75	12.58	16.25	16.25	15.72	16.25	15.72	18.23	18.23	16.47	174.64	174.64
NCE - Wind Power	3.36	10.89	10.54	10.89	10.54	10.89	37.40	36.20	37.40	36.20	37.40	37.40	33.78	309.52	309.52
NCE - Mini Hydel	2.56	13.01	12.61	13.01	12.61	13.01	13.01	12.91	13.32	12.91	13.32	13.32	12.10	155.13	155.13
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	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	0.00	0.00
TOTAL NCE	3.10	212.94	206.09	212.94	209.24	219.44	245.95	238.34	249.24	241.23	251.22	251.22	226.98	2764.84	2764.84
		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
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
Srivathsa	0.00	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	110.60
LVS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vishakapatnam Steel Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NB Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OTHERS	0.00	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	110.60
		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
MARKET		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
PTC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ANNEXURE-E(i)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability - As filed

FY 2009-10 Generating Station	Variable Cost (Rs. / kWh)	Gross Energy Availability (MU)													Net Energy Availability (MU)
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
RCL and Short-Term Sources(IG Wells,Kesoram)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Short Term Sources	8.00	75.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.70	240.51	377.58	377.58
Pool purchases	2.41	175.84	199.41	245.58	282.34	308.40	186.85	180.40	134.29	213.49	273.45	262.33	277.61	2740.00	2740.00
	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	0.00	0.00
Bi-lateral Sales(PTC etc.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UI Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pool Transaction (Sales)	0.00	-175.84	-199.41	-245.58	-282.34	-308.40	-186.85	-180.40	-134.29	-213.49	-273.45	-262.33	-277.61	-2740.00	-2740.00
	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	0.00	0.00
TOTAL MARKET	-0.66	75.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.70	240.51	377.58	377.58
		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 (From All Sources)	1.50	5901.51	6062.56	5638.39	6196.23	6198.87	6334.48	6290.17	5839.32	6372.47	6762.49	6450.28	7098.93	75145.69	75145.69

ANNEXURE-E(ii)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability – APERC

FY 2009-10		Gross Energy Availability (MU)													Net Energy Availability (MU)
Generating Station	Variable Cost (Rs. / kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
APGENCO															
Thermal															
VTPS I	1.57	260.71	269.40	246.84	255.19	189.30	246.84	189.30	246.84	269.40	269.40	252.01	269.40	2964.64	2964.64
VTPS II	1.57	260.71	269.40	246.84	255.19	80.48	246.84	127.59	185.13	269.40	269.40	252.01	269.40	2732.39	2732.39
VTPS III	1.57	260.71	269.40	246.84	255.19	0.00	132.88	255.19	246.84	196.41	269.40	252.01	269.40	2654.27	2654.27
VTPS IV	1.40	62.54	149.84	249.84	80.45	0.00	0.00	249.84	249.84	249.84	249.84	249.84	249.84	2041.74	2041.74
RTPP I	1.74	259.99	167.44	206.55	0.00	0.00	0.00	0.00	0.00	255.14	229.97	251.32	268.66	1639.06	1639.06
RTPP Stage-II	1.74	261.42	270.14	247.52	0.00	0.00	0.00	30.96	108.44	170.53	270.14	252.71	270.14	1882.02	1882.02
RTPP Stage-III	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.07	113.74	113.74	102.74	113.74	554.04	554.04
KTPS A	1.28	140.43	145.09	132.56	136.89	119.20	82.81	136.89	115.95	145.09	145.09	131.12	145.09	1576.22	1576.22
KTPS B	1.28	140.43	145.02	132.74	137.26	68.63	121.72	137.26	99.33	145.02	145.02	131.06	145.02	1548.52	1548.52
KTPS C	1.28	140.43	145.02	132.74	137.26	101.59	132.74	137.26	99.33	145.02	145.02	131.06	145.02	1592.49	1592.49
KTPS D	1.16	309.51	319.83	293.22	302.99	302.99	219.92	302.99	219.92	238.11	319.83	288.88	319.83	3438.00	3438.00
KTPS Stage VI	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	0.00
RTS B	1.36	36.86	38.04	34.76	35.95	17.38	34.76	35.95	34.76	38.04	38.04	34.40	38.04	416.96	416.96
Kakatiya Thermal Power Plant Stage I	1.16	0.00	0.00	0.00	0.00	245.78	245.78	245.78	245.78	245.78	245.78	245.78	245.78	1966.21	1966.21
TOTAL THERMAL	1.44	2133.74	2188.63	2170.46	1596.37	1125.35	1464.28	1849.01	1962.22	2481.53	2710.68	2574.93	2749.37	25006.56	25006.56
MACHKUND PH AP Share	0.00	24.26	10.30	-0.53	14.41	26.89	26.97	30.35	8.48	6.07	27.96	20.90	23.88	219.93	219.93
TUNGBHADRA PH AP Share	0.00	0.70	-0.85	-0.64	11.86	25.62	26.42	26.30	20.53	17.67	16.34	12.91	13.77	170.62	170.62
USL	0.00	42.83	42.13	25.74	36.10	29.67	12.72	31.04	43.36	48.55	51.29	49.03	68.34	480.80	480.80
LSR	0.00	104.34	103.72	59.63	90.41	98.26	29.59	102.88	104.25	115.17	121.24	113.24	113.17	1155.91	1155.91
DONKARAYI	0.00	11.42	11.22	2.24	6.86	10.54	2.26	11.09	11.59	14.09	14.78	13.59	12.75	122.41	122.41
SSLM	0.00	38.30	26.62	81.02	388.02	397.00	392.97	200.10	64.84	66.25	80.57	128.84	141.71	2006.22	2006.22
NSPH	0.00	9.77	-0.18	3.77	403.91	544.33	541.83	278.03	34.98	31.81	55.54	13.92	34.96	1952.67	1952.67

ANNEXURE-E(ii)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability – APERC

FY 2009-10		Gross Energy Availability (MU)													Net Energy Availability (MU)
Generating Station	Variable Cost (Rs. / kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
NSRCPH	0.00	-0.02	-0.03	-0.02	2.80	32.97	45.94	46.48	33.41	22.64	7.46	-0.02	-0.02	191.59	191.59
NSLCPH	0.00	-0.03	-0.05	-0.03	3.03	17.39	21.67	25.84	13.97	6.40	0.16	-0.02	0.02	88.35	88.35
POCHAMPAD PH	0.00	4.12	-0.01	-0.01	0.00	1.53	5.51	13.72	4.74	9.34	8.58	7.23	3.94	58.69	58.69
NIZAMSAGAR PH	0.00	1.88	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	0.39	0.87	1.77	1.59	1.11	7.37	7.37
PABM	0.00	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	1.14	1.08	-0.02	-0.02	-0.02	-0.03	1.99	1.99
MINI HYDRO&OTHERS	0.00	1.52	-0.02	0.07	0.45	1.02	1.50	1.90	0.62	2.12	1.58	1.39	0.91	13.07	13.07
SINGUR	0.00	0.78	-0.03	-0.02	0.19	-0.03	-0.03	-0.02	-0.02	1.47	-0.02	-0.02	-0.02	2.23	2.23
SSLM LCPH	0.86	44.97	18.24	14.63	545.10	490.03	538.41	249.89	49.93	56.89	89.21	149.37	104.30	2350.97	2350.97
Nagarjunasagar Tail Pond Dam Power House	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	0.00
Priyadarshini Jurala Hydro Electric Project- AP Share	0.00	0.00	0.00	1.78	20.85	26.63	41.68	41.68	7.43	5.84	0.00	0.00	0.00	145.89	145.89
Lower Jurala Hydro Electric Project	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	0.00
TOTAL HYDRO	0.22	284.83	211.00	187.56	1523.94	1701.78	1687.38	1060.36	399.56	405.15	476.44	511.93	518.78	8968.70	8968.70
TOTAL APGENCO	1.12	2605.88	2499.63	2358.01	3120.30	2827.13	3151.66	2909.37	2361.79	2886.68	3187.11	3086.86	3268.14	34262.56	34262.56
		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
Central Generating Stations		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NTPC		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 (SR)		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 (SR)	1.34	488.46	505.91	481.48	408.21	488.46	436.13	404.72	488.46	509.39	509.39	457.06	509.39	5687.06	5687.06
NTPC (SR) Stage III	1.28	124.61	128.28	124.61	120.95	73.30	73.30	124.61	124.61	124.61	124.61	120.95	124.61	1389.05	1389.05
Total NTPC(SR)	1.33	613.07	634.19	606.09	529.16	561.76	509.43	529.33	613.07	634.00	634.00	578.01	634.00	7076.11	7076.11

ANNEXURE-E(ii)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability – APERC

FY 2009-10		Gross Energy Availability (MU)													Net Energy Availability (MU)
Generating Station	Variable Cost (Rs. / kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
		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 (ER)		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
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	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	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	0.00
Talcher Stage 2	0.76	268.85	277.58	230.56	254.56	276.79	268.06	276.39	267.46	207.34	265.67	249.21	275.59	3118.06	3118.06
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	0.00
Total NTPC(ER)	0.76	268.85	277.58	230.56	254.56	276.79	268.06	276.39	267.46	207.34	265.67	249.21	275.59	3118.06	3118.06
		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	1.16	881.92	911.77	836.65	783.72	838.55	777.49	805.72	880.53	841.34	899.67	827.22	909.59	10194.17	10194.17
		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
NLC TS-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
Stage-I	1.46	52.91	64.60	36.15	70.40	52.66	49.51	49.51	34.62	43.27	62.80	62.59	69.44	648.46	648.46
Stage-II	1.37	96.38	116.07	81.35	84.99	74.01	83.77	83.77	105.17	90.56	113.78	102.56	113.78	1146.19	1146.19
Total NLC	1.41	149.28	180.67	117.50	155.40	126.67	133.28	133.28	139.79	133.83	176.58	165.15	183.22	1794.65	1794.65
		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
NPC		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
NPC-MAPS	1.18	22.26	22.90	11.13	22.90	22.90	22.26	22.90	22.26	22.90	22.90	21.40	22.90	259.58	259.58
NPC-Kaiga unit I	0.99	70.11	72.14	70.11	36.07	72.14	70.11	72.14	70.11	72.14	72.14	67.42	72.14	816.75	816.75
NPC-Kaiga unit II	0.99	78.61	80.93	78.61	80.93	80.93	80.93	78.61	80.93	78.61	80.93	77.29	80.93	958.28	958.28
Total NPC	1.02	170.98	175.97	159.85	139.90	175.97	173.30	173.65	173.30	173.65	175.97	166.10	175.97	2034.62	2034.62
		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 - Simhadri		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 Simhadri Stage I	1.15	640.00	663.00	640.00	350.00	663.00	562.00	663.00	640.00	663.00	663.00	596.00	663.00	7406.00	7406.00
NTPC Simhadri 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	0.00
Total NTPC-	1.15	640.00	663.00	640.00	350.00	663.00	562.00	663.00	640.00	663.00	663.00	596.00	663.00	7406.00	7406.00

ANNEXURE-E(ii)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability – APERC

FY 2009-10		Gross Energy Availability (MU)													Net Energy Availability (MU)
Generating Station	Variable Cost (Rs. / kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
Simhadri															
		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
CGS - New		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
		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 CGS	1.16	1842.18	1931.40	1754.01	1429.02	1804.19	1646.08	1775.65	1833.62	1811.81	1915.22	1754.48	1931.78	21429.43	21429.43
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL I - Allocated capacity	1.18	5.33	5.51	5.33	5.51	5.51	5.33	5.51	5.33	5.51	5.51	4.97	5.51	64.82	64.82
APGPCL I - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
APGPCL II - Allocated capacity	0.88	22.40	23.14	22.40	23.14	19.41	22.40	23.14	22.40	23.14	23.14	20.90	23.14	268.74	268.74
APGPCL II - Unutilised capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total APGPCL	0.93	27.72	28.65	27.72	28.65	24.91	27.72	28.65	27.72	28.65	28.65	25.88	28.65	333.57	333.57
		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
IPPS		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
GVK	1.28	105.56	140.83	136.29	140.83	140.83	133.17	133.32	136.29	137.74	108.09	127.20	140.83	1580.96	1580.96
Spectrum	1.24	137.56	139.36	135.23	138.94	141.59	132.74	78.98	141.33	146.13	146.82	125.71	143.74	1608.13	1608.13
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	0.00
Kondapalli (Gas)	1.34	257.11	253.01	183.24	265.68	265.68	257.11	265.68	257.11	265.68	265.68	239.97	265.68	3041.65	3041.65
BSES	1.21	154.44	159.59	149.29	159.59	72.07	61.78	159.59	154.44	154.44	159.59	144.15	154.44	1683.41	1683.41
GVK Extension	1.78	98.33	101.61	98.33	101.61	101.61	98.33	101.61	98.33	101.61	101.61	91.78	101.61	1196.41	1196.41
Vemagiri	1.78	165.38	170.89	165.38	170.89	170.89	165.38	170.89	165.38	170.89	170.89	154.36	170.89	2012.14	2012.14
Gautami	1.78	207.40	214.31	207.40	214.31	214.31	207.40	214.31	207.40	214.31	214.31	193.57	214.31	2523.33	2523.33
Konaseema	1.78	0.00	205.23	198.90	205.53	205.53	198.90	205.53	198.90	205.53	205.53	185.94	205.53	2221.10	2221.10

ANNEXURE-E(ii)
STATION-WISE AND MONTH-WISE AVAILABILITY OF ENERGY

Energy Availability – APERC

FY 2009-10		Gross Energy Availability (MU)													Net Energy Availability (MU)
Generating Station	Variable Cost (Rs. / kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total	
TOTAL IPPS	1.53	1125.78	1385.14	1274.07	1397.39	1312.53	1254.82	1329.91	1359.19	1396.34	1372.53	1262.68	1397.04	15867.41	15867.41
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCE - Bio-Mass	3.16	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	1229.22
NCE - Bagasse	2.92	67.14	64.97	67.14	64.97	67.14	67.14	64.97	70.12	67.85	70.12	70.12	63.33	804.99	804.99
NCE - Municipal Waste to Energy	3.80	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	71.11
NCE - Industrial Waste based power project	3.12	9.75	9.43	9.75	12.58	16.25	16.25	15.72	16.25	15.72	18.23	18.23	16.47	174.64	174.64
NCE - Wind Power	3.36	10.89	10.54	10.89	10.54	10.89	37.40	36.20	37.40	36.20	37.40	37.40	33.78	309.52	309.52
NCE - Mini Hydel	2.56	13.01	12.61	13.01	12.61	13.01	13.01	12.91	13.32	12.91	13.32	13.32	12.10	155.13	155.13
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	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	0.00	0.00
TOTAL NCE	3.10	212.94	206.09	212.94	209.24	219.44	245.95	238.34	249.24	241.23	251.22	251.22	226.98	2764.84	2764.84
		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
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
Srivathsa	0.00	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	110.60
LVS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vishakapatnam Steel Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NB Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OTHERS	0.00	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	110.60
Grand Total		5638.84	5962.26	5638.39	6196.23	6198.87	6334.48	6290.17	5839.32	6372.47	6762.49	6388.88	6858.42	74480.81	74480.81

ANNEXURE-E(iii)
STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY

Energy Despatch – APERC

FY 2009-10		Energy Despatch (in MUs)												Total
Station Name	Variable Cost (Rs./kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	
NCE - Bio-Mass	3.16	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	2.92	67.14	64.97	67.14	64.97	67.14	67.14	64.97	70.12	67.85	70.12	70.12	63.33	804.99
NCE - Municipal Waste to Energy	3.80	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	3.12	9.75	9.43	9.75	12.58	16.25	16.25	15.72	16.25	15.72	18.23	18.23	16.47	174.64
NCE - Wind Power	3.36	10.89	10.54	10.89	10.54	10.89	37.40	36.20	37.40	36.20	37.40	37.40	33.78	309.52
NCE - Mini Hydel	2.56	13.01	12.61	13.01	12.61	13.01	13.01	12.91	13.32	12.91	13.32	13.32	12.10	155.13
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
NPC-MAPS	1.18	22.26	22.90	11.13	22.90	22.90	22.26	22.90	22.26	22.90	22.90	21.40	22.90	259.58
NPC-Kaiga unit I	0.99	70.11	72.14	70.11	36.07	72.14	70.11	72.14	70.11	72.14	72.14	67.42	72.14	816.75
NPC-Kaiga unit II	0.99	78.61	80.93	78.61	80.93	80.93	80.93	78.61	80.93	78.61	80.93	77.29	80.93	958.28
		383.92	382.06	372.79	349.14	395.41	419.26	411.99	422.55	414.87	427.19	417.33	402.95	4799.45
	0.00													
	0.00													
MACHKUND PH AP Share	0.00	24.26	10.30	-0.53	14.41	26.89	26.97	30.35	8.48	6.07	27.96	20.90	23.88	219.93
TUNGBHADRA PH AP Share	0.00	0.70	-0.85	-0.64	11.86	25.62	26.42	26.30	20.53	17.67	16.34	12.91	13.77	170.62
USL	0.00	42.83	42.13	25.74	36.10	29.67	12.72	31.04	43.36	48.55	51.29	49.03	68.34	480.80
LSR	0.00	104.34	103.72	59.63	90.41	98.26	29.59	102.88	104.25	115.17	121.24	113.24	113.17	1155.91
DONKARAYI	0.00	11.42	11.22	2.24	6.86	10.54	2.26	11.09	11.59	14.09	14.78	13.59	12.75	122.41
SSLM	0.00	38.30	26.62	81.02	388.02	397.00	392.97	200.10	64.84	66.25	80.57	128.84	141.71	2006.22
NSPH	0.00	9.77	-0.18	3.77	403.91	544.33	541.83	278.03	34.98	31.81	55.54	13.92	34.96	1952.67
NSRCPH	0.00	-0.02	-0.03	-0.02	2.80	32.97	45.94	46.48	33.41	22.64	7.46	-0.02	-0.02	191.59
NSLCPH	0.00	-0.03	-0.05	-0.03	3.03	17.39	21.67	25.84	13.97	6.40	0.16	-0.02	0.02	88.35
POCHAMPAD PH	0.00	4.12	-0.01	-0.01	0.00	1.53	5.51	13.72	4.74	9.34	8.58	7.23	3.94	58.69
NIZAMSAGAR PH	0.00	1.88	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	0.39	0.87	1.77	1.59	1.11	7.37

ANNEXURE-E(iii)
STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY

Energy Despatch – APERC

FY 2009-10		Energy Despatch (in MUs)												Total
Station Name	Variable Cost (Rs./kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	
PABM	0.00	-0.02	-0.02	-0.02	-0.02	-0.02	-0.03	1.14	1.08	-0.02	-0.02	-0.02	-0.03	1.99
MINI HYDRO&OTHERS	0.00	1.52	-0.02	0.07	0.45	1.02	1.50	1.90	0.62	2.12	1.58	1.39	0.91	13.07
SINGUR	0.00	0.78	-0.03	-0.02	0.19	-0.03	-0.03	-0.02	-0.02	1.47	-0.02	-0.02	-0.02	2.23
Nagarjunasagar Tail Pond Dam Power House	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
Priyadarshini Jurala Hydro Electric Project- AP Share	0.00	0.00	0.00	1.78	20.85	26.63	41.68	41.68	7.43	5.84	0.00	0.00	0.00	145.89
Lower Jurala Hydro Electric Project	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
SSLM LCPH	0.00	44.97	18.24	14.63	545.10	490.03	538.41	249.89	49.93	56.89	89.21	149.37	104.30	2350.97
Talcher - Stage 2	0.76	268.85	277.58	230.56	254.56	276.79	268.06	276.39	267.46	207.34	265.67	249.21	275.59	3118.06
APGPCL II - Allocated capacity	0.88	22.40	23.14	22.40	23.14	19.41	22.40	23.14	22.40	23.14	23.14	20.90	23.14	268.74
NTPC- Simhadri	1.15	640.00	663.00	640.00	350.00	663.00	562.00	663.00	640.00	663.00	663.00	596.00	663.00	7406.00
KTPS D	1.16	309.51	319.83	293.22	302.99	302.99	219.92	302.99	219.92	238.11	319.83	288.88	319.83	3438.00
Kakatiya Thermal Power Plant Stage I	1.16	0.00	0.00	0.00	0.00	245.78	245.78	245.78	245.78	245.78	245.78	245.78	245.78	1966.21
APGPCL I - Allocated capacity	1.18	5.33	5.51	5.33	5.51	5.51	5.33	5.51	5.33	5.51	5.51	4.97	5.51	64.82
Srivathsa	1.20	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
BSES	1.21	154.44	159.59	149.29	159.59	72.07	61.78	159.59	154.44	154.44	159.59	144.15	154.44	1683.41
Spectrum	1.24	137.56	139.36	135.23	138.94	141.59	132.74	78.98	141.33	146.13	146.82	125.71	143.74	1608.13
GVK	1.28	105.56	140.83	136.29	140.83	140.83	133.17	133.32	136.29	137.74	108.09	127.20	140.83	1580.96
KTPS Stage VI	1.28	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
KTPS C	1.28	140.43	145.02	132.74	137.26	101.59	132.74	137.26	99.33	145.02	145.02	131.06	145.02	1592.49
KTPS A	1.28	140.43	145.09	132.56	136.89	119.20	82.81	136.89	115.95	145.09	145.09	131.12	145.09	1576.22

ANNEXURE-E(iii)
STATION-WISE AND MONTH-WISE DESPATCH OF ENERGY

Energy Despatch – APERC

FY 2009-10		Energy Despatch (in MUs)												Total
Station Name	Variable Cost (Rs./kWh)	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	
KTPS B	1.28	140.43	145.02	132.74	137.26	68.63	121.72	137.26	99.33	145.02	145.02	131.06	145.02	1548.52
NTPC (SR) Stage III	1.28	124.61	128.28	124.61	120.95	73.30	73.30	124.61	124.61	124.61	124.61	120.95	124.61	1389.05
Kondapalli (Gas)	1.34	257.11	253.01	183.24	265.68	265.68	257.11	265.68	257.11	265.68	265.68	239.97	265.68	3041.65
NTPC (SR)	1.34	488.46	505.91	481.48	408.21	488.46	436.13	404.72	488.46	509.39	509.39	457.06	509.39	5687.06
RTS B	1.36	36.86	38.04	34.76	35.95	17.38	34.76	35.95	34.76	38.04	38.04	34.40	38.04	416.96
NLC Stage-II	1.37	96.38	116.07	81.35	84.99	74.01	83.77	83.77	105.17	90.56	113.78	102.56	113.78	1146.19
VTPS IV	1.40	62.54	149.84	249.84	80.45	0.00	0.00	249.84	249.84	249.84	249.84	249.84	249.84	2041.74
NLC Stage-I	1.46	52.91	64.60	36.15	70.40	52.66	49.51	49.51	34.62	43.27	62.80	62.59	69.44	648.46
VTPS I	1.57	260.71	269.40	246.84	255.19	189.30	246.84	189.30	246.84	269.40	269.40	252.01	269.40	2964.64
VTPS II	1.57	260.71	269.40	246.84	163.36	80.48	246.84	127.59	185.13	269.40	269.40	252.01	269.40	2640.56
VTPS III	1.57	260.71	269.40	246.84	0.00	0.00	37.16	255.19	246.84	196.41	269.40	252.01	269.40	2303.36
RTPP Stage-II	1.74	261.42	270.14	247.52	0.00	0.00	0.00	30.96	108.44	170.53	270.14	252.71	270.14	1882.02
RTPP I	1.74	259.99	167.44	206.55	0.00	0.00	0.00	0.00	0.00	255.14	229.97	251.32	268.66	1639.06
RTPP Stage-III	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.07	104.55	113.74	102.74	113.74	544.85
GVK Extension	1.78	98.33	101.61	98.33	0.00	19.67	0.00	101.61	98.33	0.00	39.56	91.78	101.61	750.85
Vemagiri	1.78	134.72	156.00	165.38	0.00	0.00	0.00	48.27	45.61	0.00	0.00	154.36	99.24	803.57
Gautami	1.78	0.00	0.00	89.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193.57	0.00	283.52
Konaseema	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	185.88	0.00	185.88
		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
LVS		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		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	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		5400.78	5527.81	5322.04	5156.86	5526.19	5568.74	5747.70	5313.25	5670.93	6109.70	6388.82	6366.91	68099.73

ANNEXURE-F POWER PURCHASE (IN MU) WITH SALES AND LOSSES

FY 2009-10

DISCOM	Voltage	FY2010	Voltage	Sales	LT	11kV	33kV	132kV
EPDCL	L.T.	5.35	L.T.	5343.18	5645.1963	5900.6965	6122.325	6388.0683
CGS Share	11kV	4.33	11kV	1295.33		1353.9536	1404.808	1465.7843
15.80%	33kV	3.62	33kV	645.81			670.0625	699.14702
CGS (MU)	132kV	4.16	132kV	2157.40				2251.0452
3385.85	PGCIL	4.17	TOTAL	9441.71		7254.6501	8197.19	10804.04
							% Loss up to said voltage :	8.49% 11.14% 12.61%
						D. Loss:	912.88	
						T. Loss	449.45	
						PGC Loss	141.19	10945.23
						Loss(MU) & % Loss incl.PGCIL :	TOTAL	1503.52 13.74%
DISCOM	Voltage	FY2010	Voltage	Sales	LT	11kV	33kV	132kV
CPDCL	L.T.	8.00	L.T.	15099.90	16412.93	17276.77	18009.77	18791.49
CGS Share	11kV	5.00	11kV	3531.25		3717.11	3874.81	4043.00
46.06%	33kV	4.07	33kV	4287.96			4469.89	4663.91
CGS (MU)	132kV	4.16	132kV	3502.36				3654.38
9870.40	PGCIL	4.17	TOTAL	26421.47		20993.88	26354.47	31152.78
							% Loss up to said voltage :	11.25% 13.04% 15.19%
						D. Loss:	3435.36	
						T. Loss	1295.96	
						PGC Loss	411.60	31564.37
						Loss(MU) & % Loss incl.PGCIL :	TOTAL	5142.91 16.29%
DISCOM	Voltage	FY2010	Voltage	Sales	LT	11kV	33kV	132kV
NPDCL	L.T.	7.00	L.T.	5706.71	6136.2508	6459.2114	6763.572	7057.1495
CGS Share	11kV	5.00	11kV	890.62		937.49328	981.6684	1024.2783
15.87%	33kV	4.50	33kV	222.09			232.5564	242.65066
CGS (MU)	132kV	4.16	132kV	1496.88				1561.8582
3400.85	PGCIL	4.17	TOTAL	8316.31		7396.7046	7977.80	9885.94
							% Loss up to said voltage :	10.81% 14.52% 15.88%
						D. Loss:	1158.37	
						T. Loss	411.25	
						PGC Loss	141.82	10027.75
						Loss(MU) & % Loss incl.PGCIL :	TOTAL	1711.44 17.07%
DISCOM	Voltage	FY2010	Voltage	Sales	LT	11kV	33kV	132kV
SPDCL	L.T.	6.00	L.T.	9216.43	9804.7118	10303.396	10732.7	11198.565
CGS Share	11kV	4.84	11kV	1398.00		1469.1012	1530.314	1596.7381
22.27%	33kV	4.00	33kV	1282.75			1336.198	1394.1968
CGS (MU)	132kV	4.16	132kV	1125.03				1173.8635
4772.33	PGCIL	4.17	TOTAL	13022.21		11772.497	13599.22	15363.36
							% Loss up to said voltage :	9.84% 12.52% 15.24%
						D. Loss:	1702.04	
						T. Loss	639.12	
						PGC Loss	199.01	15562.37
						Loss(MU) & % Loss incl.PGCIL :	TOTAL	2540.16 16.32%
All Discoms	Voltage	FY2010	Voltage	Sales	LT	11kV	33kV	132kV
			L.T.	35366.22	37999.09	39940.07	41628.37	43435.27
CGS Share			11kV	7115.20		7477.66	7791.60	8129.80
100.00%			33kV	6438.61			6708.70	6999.90
CGS (MU)	132kV	4.16	132kV	8281.67				8641.14
21429.43	PGCIL	4.17	TOTAL	57201.70		47417.73	56128.67	67206.12
							% Loss up to said voltage :	10.41% 12.84% 14.89%
						D. Loss:	7208.65	
						T. Loss	2795.77	
						PGC Loss	893.61	68099.73
						Loss(MU) & % Loss incl.PGCIL :	TOTAL	10898.03 16.00%

ANNEXURE-G
APGENCO'S STATION-WISE FIXED CHARGES FOR FY 2009-10
AS APPROVED BY APERC

(RS. CRS.)

S.No	Station	RoCE	Depreciation	O&M	Total Fixed charges
1	Dr. NTPPS	250.61	93.70	162.61	506.92
2	Dr.NTPPS stage IV *	245.27	127.22	42.69	415.18
3	RTPP stage-I	123.38	39.20	62.07	224.65
4	RTPP stage -II	271.93	146.30	53.13	471.36
5	KTPS	127.61	67.50	147.22	342.33
6	KTPS-V	118.19	32.00	61.94	212.13
7	RTS-B	19.73	2.62	22.55	44.90
8	KTPP *	108.28	56.98	14.23	179.49
9	Sileru	66.31	20.27	42.39	128.97
10	Nagarjuna Sagar	109.74	38.50	24.41	172.65
11	SRBPH	92.75	32.00	35.94	160.69
12	Small Hydel	18.55	5.75	8.17	32.47
13	Mini Hydel	3.48	1.00	3.25	7.73
14	Ramagir	0.38	0.16	0.06	0.60
15	SLBPH	294.87	78.92	18.61	392.40
16	Jurala * #	58.47	14.12	6.23	78.82
17	Pochampad *	1.36	0.33	0.15	1.84
18	Interstate power				19.51
	Grand Total	1910.90	756.57	705.65	3392.63

Note: The fixed cost computed in the above table is subject to corrections to be carried out upon the determination of Generation Tariff for APGENCO stations.

*The fixed charges for new stations are in proportion to the availability of units during 2009-10.

100% Energy & Fixed charges to AP till finalization of agreement with Karnataka.

ANNEXURE-G(i)
CPDCL: POWER PURCHASE COSTS FOR FY 2009-10

as filed by DISCOM						
Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/ unit (Rs/ unit)
APGENCO	15781.34	1433.44	1765.86	28.42	3227.72	2.05
Thermal	11650.35	1433.44	1673.17	28.42	3135.03	2.69
Hydel	4130.98	0.00	92.69	0.00	92.69	0.22
CGS-SR	6459.20	398.60	753.89	74.49	1226.98	1.90
NTPC Simhadri Stage I	3411.20	213.16	392.56	10.64	616.36	1.81
APGPCL I & II	153.64	2.34	14.34	0.00	16.68	1.09
IPPs	7308.39	678.45	1117.61	27.59	1823.65	2.50
NCE & Others	688.25	0.00	217.90	0.00	217.90	3.17
Total of allocated sources	33802.02	2725.99	4262.16	141.14	7129.29	2.11
Other short term sources	2155.27	0.00	616.45	0.00	616.45	2.86
Sale to other DISCOMs	-18.80	0.00	-4.53	0.00	-4.53	2.41
Grand Total	35938.49	2725.99	4874.08	141.14	7741.21	2.15

as approved by APERC

APGENCO	15440.85	1562.65	1621.95	28.41	3213.01	2.08
Thermal	11309.86	1144.58	1621.95	28.41	2794.94	2.47
Hydel	4130.98	418.07	0.00	0.00	418.07	1.01
CGS	6459.19	402.13	753.89	36.82	1192.84	1.85
NTPC Simhadri Stage I	3411.20	213.16	392.56	11.16	616.88	1.81
APGPCL	153.64	2.32	14.34	0.00	16.66	1.08
IPPs	4577.42	668.55	631.50	27.59	1327.64	2.90
NCE & OTHERS	688.25	0.00	217.90	0.00	217.90	3.17
TOTAL	30730.56	2848.80	3632.14	103.98	6584.92	2.14
D-to-D (Pool) Purchase	833.81	76.24	148.42	0.00	224.66	2.69
NCE Cost Adjustment(Deficit)	593.33	0.00	21.41	0.00	21.41	0.36
GRAND TOTAL	31564.37	2925.04	3801.97	103.98	6831.00	2.16

ANNEXURE-G(ii)
EPDCL: POWER PURCHASE COSTS FOR FY 2009-10

as filed by DISCOM

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/ unit (Rs/ unit)
APGENCO	5413.48	491.71	605.75	9.75	1107.21	2.05
Thermal	3996.43	491.71	573.95	9.75	1075.41	2.69
Hydel	1417.05	0.00	31.80	0.00	31.80	0.22
CGS-SR	2215.70	136.73	258.61	25.55	420.89	1.90
NTPC Simhadri Stage I	1170.15	73.12	134.66	3.65	211.43	1.81
APGPCL I & II	52.70	0.80	4.92	0.00	5.72	1.09
IPPs	2507.00	232.73	383.38	9.47	625.58	2.50
NCE & Others	603.41	41.40	164.60	0.70	206.70	3.43
NCE	492.81	0.00	151.33	0.00	151.33	3.07
Others - Srivathsa	110.60	11.63	13.27	0.70	25.60	2.31
LVS	0.00	29.77	0.00	0.00	29.77	0.00
Total of allocated sources	11962.44	976.49	1551.92	49.12	2577.53	2.15
Other short term sources	59.66	0.00	47.73	0.00	47.73	8.00
Purchase from other DISCOMs	58.18		14.02		14.02	2.41
Sale to other DISCOMs	-833.08	0.00	-200.75	0.00	-200.75	2.41
Grand Total	11247.20	976.49	1412.92	49.12	2438.53	2.17

as approved by APERC

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/ unit (Rs/ unit)
APGENCO	5296.69	536.04	556.38	9.75	1102.16	2.08
Thermal	3879.63	392.63	556.38	9.75	958.75	2.47
Hydel	1417.05	143.41	0.00	0.00	143.41	1.01
CGS	2215.70	137.94	258.61	12.63	409.18	1.85
NTPC Simhadri Stage I	1170.15	73.12	134.66	3.83	211.61	1.81
APGPCL	52.70	0.80	4.92	0.00	5.72	1.09
IPPs	1570.20	229.33	216.62	9.46	455.42	2.90
NCE & OTHERS	603.41	41.46	164.60	0.70	206.76	3.43
TOTAL	10908.85	1018.69	1335.79	36.37	2390.85	2.19
D-to-D (Pool) Purchase	36.39	0.00	9.80	0.00	9.80	2.69
NCE Cost Adjustment(Surplus)	48.37	0.00	1.75	0.00	1.75	0.36
GRAND TOTAL	10945.24	1018.69	1343.84	36.37	2398.90	2.19

ANNEXURE-G(iii)
NPDCCL: POWER PURCHASE COSTS FOR FY 2009-10
as filed by DISCOM

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/ unit (Rs/ unit)
APGENCO	5437.47	493.89	608.43	9.79	1112.11	2.05
Thermal	4014.14	493.89	576.49	9.79	1080.17	2.69
Hydel	1423.33	0.00	31.94	0.00	31.94	0.22
CGS-SR	2225.52	137.34	259.75	25.67	422.76	1.90
NTPC Simhadri Stage I	1175.33	73.44	135.26	3.66	212.36	1.81
APGPCL I & II	52.94	0.81	4.94	0.00	5.75	1.09
IPPs	2518.11	233.76	385.07	9.50	628.33	2.50
NCE & Others	430.08	0.00	126.01	0.00	126.01	2.93
Total of allocated sources	11839.45	939.24	1519.46	48.62	2507.32	2.12
Other short term sources	59.92	0.00	47.94		47.94	8.00
Purchase from Other Discom	641.14	0.00	154.45	0.00	154.45	2.41
Total	12540.51	939.24	1721.85	48.62	2709.71	2.16
Sale to other DISCOMs	-514.10	0.00	-123.85	0.00	-123.85	2.41
Grand Total	12026.41	939.24	1598.00	48.62	2585.86	2.15

as approved by APERC

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/ unit (Rs/ unit)
APGENCO	5320.15	538.41	558.84	9.79	1107.04	2.08
Thermal	3896.82	394.37	558.84	9.79	963.00	2.47
Hydel	1423.33	144.04	0.00	0.00	144.04	1.01
CGS	2225.52	138.55	259.75	12.69	410.99	1.85
NTPC Simhadri Stage I	1175.33	73.44	135.26	3.84	212.54	1.81
APGPCL	52.94	0.80	4.94	0.00	5.74	1.08
IPPs	1577.15	230.35	217.58	9.50	457.44	2.90
NCE & OTHERS	430.08	0.00	126.01	0.00	126.01	2.93
TOTAL	10781.17	981.56	1302.38	35.82	2319.76	2.15
D-to-D (Pool) Sale	-753.42	-68.89	-134.11	0.00	-203.00	2.69
NCE Cost Adjustment(Surplus)	23.24	0.00	0.84	0.00	0.84	0.36
GRAND TOTAL	10027.75	912.67	1167.44	35.82	2115.93	2.11

ANNEXURE-G(iv)
SPDCL: POWER PURCHASE COSTS FOR FY 2009-10
as filed by DISCOM

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/unit (Rs/unit)
APGENCO	7630.27	693.07	853.80	13.74	1560.61	2.05
Thermal	5632.94	693.07	808.98	13.74	1515.79	2.69
Hydel	1997.33	0.00	44.82	0.00	44.82	0.22
CGS-SR	3123.01	192.73	364.51	36.02	593.26	1.90
NTPC Simhadri Stage I	1649.32	103.06	189.80	5.14	298.00	1.81
APGPCL I & II	74.29	1.12	6.93	0.00	8.05	1.08
IPPs	3533.61	328.03	540.37	13.33	881.73	2.50
NCE & Others	1153.70	0.00	357.19	0.00	357.19	3.10
Total of allocated sources	17164.20	1318.01	2312.60	68.23	3698.84	2.15
Other short term sources	84.09	0.00	67.27	0.00	67.27	8.00
Purchase from Other DISCOMs	59.32	0.00	14.29	0.00	14.29	2.41
Sale to other DISCOMs	-1374.03	0.00	-331.00	0.00	-331.00	2.41
Grand Total	15933.58	1318.01	2063.16	68.23	3449.40	2.16

as approved by APERC

Source of Power	Load Dispatch (MUs)	Fixed Cost (Rs crores)	Total Variable Cost (Rs crores)	Incentive, Income Tax & Others (Rs crores)	Total Cost (Rs crores)	Avg. Cost/unit (Rs/unit)
APGENCO	7465.65	755.54	784.21	13.74	1553.48	2.08
Thermal	5468.32	553.41	784.21	13.74	1351.35	2.47
Hydel	1997.33	202.13	0.00	0.00	202.13	1.01
CGS	3123.02	194.43	364.51	17.80	576.74	1.85
NTPC Simhadri Stage I	1649.32	103.06	189.80	5.39	298.25	1.81
APGPCL	74.29	1.12	6.93	0.00	8.05	1.08
IPPs	2213.18	323.24	305.33	13.34	641.91	2.90
NCE & OTHERS	1153.70	0.00	357.19	0.00	357.19	3.10
TOTAL	15679.16	1377.39	2007.97	50.27	3435.62	2.19
D-to-D (Pool) Sale	-116.78	-10.68	-20.79	0.00	-31.46	2.69
NCE Cost Adjustment(Surplus)	521.72	0.00	18.83	0.00	18.83	0.36
GRAND TOTAL	15562.38	1366.71	1968.35	50.27	3385.33	2.18

ANNEXURE-G(v)
SUMMARY OF VARIABLE COST FOR FSA CALCULATIONS

Month/ Quarter	Purchase requirement as EHT input (MUs)	Total despatch for DISCOM sales only (MUs)	Total Variable Cost (Rs.Crs.)	Variable Cost (Rs. per kWh)
Apr-09	5400.78	5400.78	725.16	1.3427
May-09	5527.81	5527.81	748.20	1.3535
Jun-09	5322.04	5322.04	732.89	1.3771
QRT 1	16250.63	16250.63	2206.26	1.3576
Jul-09	5156.86	5156.86	493.96	0.9579
Aug-09	5526.19	5526.19	507.52	0.9184
Sep-09	5568.74	5568.74	529.50	0.9509
QRT 2	16251.78	16251.78	1530.98	0.9420
Oct-09	5747.70	5747.70	641.00	1.1152
Nov-09	5313.25	5313.25	685.22	1.2896
Dec-09	5670.93	5670.93	740.40	1.3056
QRT 3	16731.88	16731.88	2066.63	1.2351
Jan-10	6109.70	6109.70	793.66	1.2990
Feb-10	6388.82	6388.82	854.34	1.3372
Mar-10	6366.91	6366.91	826.27	1.2977
QRT 4	18865.43	18865.43	2474.26	1.3115
Total	68099.73	68099.73	8278.12	1.2156

ANNEXURE-H (i)
CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10
ALL DISCOMs

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
LT Category	2867.79	2947.01	2675.33	2612.79	2868.84	2818.81	3018.09	2656.55	2936.96	3274.47	3215.07	3474.52	35366.22
Category I Domestic	1118.27	1214.41	1150.58	1068.52	1057.98	1097.14	1127.74	1044.94	1000.70	991.31	1060.93	1114.63	13047.16
Category II - Non-domestic/Commercial	298.81	315.02	290.13	274.45	280.81	278.97	285.49	272.59	264.15	262.21	290.88	296.96	3410.47
Category III (A & B) - Industrial	218.21	247.19	223.73	211.21	196.79	208.12	218.64	228.36	258.15	279.93	279.56	264.94	2834.83
Category IV - Cottage Industries & Dhobighats	4.52	4.36	4.09	4.02	4.10	4.32	4.57	4.60	4.83	5.33	4.42	5.00	54.17
Category V - Irrigation and Agriculture	1077.37	1018.84	866.95	910.12	1177.29	1079.46	1237.98	959.61	1264.23	1572.59	1409.32	1629.92	14203.66
Category VI - Local Bodies, St. Lighting & PWS	131.83	135.27	128.54	131.53	137.12	136.57	128.92	132.29	130.64	149.51	154.10	148.00	1644.32
Category VII - General Purpose	18.14	11.65	10.95	12.69	14.36	13.83	13.72	13.32	13.38	12.81	14.93	14.41	164.16
Category VIII-Temporary Supply	0.63	0.27	0.36	0.27	0.39	0.40	1.04	0.84	0.89	0.78	0.92	0.65	7.44
HT Category at 11 KV	569.44	582.14	601.68	552.38	538.95	577.14	582.01	574.71	588.46	617.82	707.66	622.79	7115.20
HT-I Industry Segregated	349.34	353.50	377.93	336.60	328.44	351.65	358.13	362.53	381.43	392.15	457.94	384.22	4433.86
Lights & Fans	1.63	1.57	1.71	1.52	1.50	1.46	1.26	1.39	1.49	1.51	1.64	1.67	18.34
Colony consumption	0.13	0.15	0.15	0.12	0.09	0.11	0.17	0.18	0.11	0.10	0.10	0.10	1.52
Seasonal Industries	0.25	0.25	0.15	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.94
HT-I (B) Ferro-Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.28	0.00	0.00	0.00	0.00	0.94
HT-II Industrial Non-Segregated	126.09	140.34	138.22	125.15	120.04	130.63	118.63	116.93	104.88	107.80	133.24	118.60	1480.55
HT-IV A Govt. Lift Irrigation Schemes	2.73	1.55	1.17	1.40	1.84	5.14	8.04	9.83	9.60	12.05	12.02	11.51	76.90
HT-IV B Agriculture	2.74	3.05	2.81	2.36	1.66	2.07	3.58	3.53	3.40	3.89	3.20	3.17	35.47
HT-VI Townships and Residential Colonies	13.61	14.08	14.02	13.38	12.92	14.13	13.40	13.02	12.36	12.47	14.19	12.91	160.47
RESCOs	72.52	67.09	64.52	70.84	71.46	70.82	77.39	66.17	74.23	87.44	84.35	90.23	897.07
Temporary Supply	0.39	0.56	1.01	0.91	0.91	1.01	0.75	0.85	0.96	0.40	0.99	0.39	9.13
HT Category at 33 KV	501.10	503.69	550.90	517.04	510.89	534.31	509.47	526.89	520.58	543.07	675.68	544.99	6438.61

ANNEXURE-H (i)
CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10
ALL DISCOMs

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
HT-I Industry Segregated	440.58	438.15	483.25	455.13	441.86	461.34	438.00	455.08	456.54	478.30	593.90	479.24	5621.37
Lights & Fans	0.26	0.27	0.47	0.42	0.40	0.33	0.16	0.15	0.18	0.20	0.23	0.23	3.29
Colony consumption	0.25	0.29	0.50	0.27	0.25	0.22	0.26	0.22	0.23	0.24	0.26	0.27	3.29
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	11.57	10.92	11.14	9.51	10.61	10.94	11.79	10.42	11.92	11.79	14.48	11.75	136.84
HT-II Industrial Non-Segregated	38.77	41.34	42.35	34.21	32.39	34.24	36.93	36.97	32.81	35.64	50.13	38.49	454.26
HT-IV A Govt. Lift Irrigation Schemes	3.27	5.75	6.34	11.51	19.78	21.08	16.05	18.43	13.59	11.08	10.92	9.05	146.85
HT-IV B Agriculture	0.47	0.49	0.45	0.32	0.44	0.46	0.44	0.42	0.37	0.45	0.38	0.43	5.12
HT-VI Townships and Residential Colonies	5.93	6.48	6.38	5.67	5.17	5.70	5.66	4.97	4.70	5.13	5.28	5.52	66.60
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	0.19	0.22	0.24	0.23	0.11	0.00	0.99
HT Category at 132 KV	582.43	592.94	647.46	667.38	727.19	763.88	717.63	712.09	718.85	683.08	781.98	686.77	8281.67
HT-I Industry Segregated	354.03	378.41	382.37	375.40	390.55	418.61	424.14	414.48	408.31	389.74	471.17	379.49	4786.72
Lights & Fans	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Colony consumption	0.42	0.55	0.53	0.49	0.46	0.49	0.50	0.48	0.47	0.46	0.49	0.42	5.76
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	78.11	67.93	75.15	77.23	75.41	86.65	80.44	84.62	87.19	89.84	85.42	88.38	976.36
HT-II Industrial Non-Segregated	11.24	11.45	11.82	11.10	9.80	10.65	7.45	8.02	7.17	8.02	17.75	11.49	125.96
HT-IV A Govt. Lift Irrigation Schemes	6.28	3.08	41.22	78.85	117.70	115.86	72.51	69.61	80.99	54.15	63.56	69.00	772.81
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	126.65	125.73	130.08	118.56	126.87	125.77	126.84	129.79	130.36	136.07	139.08	133.24	1549.05
HT-VI Townships and Residential Colonies	5.70	5.80	6.29	5.74	6.36	5.85	5.76	5.09	4.36	4.79	4.51	4.74	64.99
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
Total	4520.76	4625.78	4475.37	4349.58	4645.87	4694.13	4827.20	4470.23	4764.86	5118.43	5380.40	5329.07	57201.70

ANNEXURE-H(ii)
CPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 CPDCL Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
LT Category	1222.73	1239.65	1109.02	1053.51	1196.30	1154.62	1274.79	1105.09	1276.87	1415.70	1461.68	1589.93	15099.90
Category I Domestic	473.64	511.45	441.54	400.65	422.21	417.37	421.91	378.06	391.86	400.45	466.61	475.89	5201.63
Category II - Non-domestic/Commercial	154.39	163.53	146.48	131.93	136.70	136.70	143.07	133.93	132.67	133.18	160.13	158.88	1731.60
Category III (A & B) - Industrial	98.14	109.24	100.98	92.63	90.05	96.63	98.56	105.96	119.06	116.21	114.94	106.90	1249.30
Category IV - Cottage Industries & Dhobighats	1.43	1.50	1.43	1.28	1.29	1.40	1.36	1.33	1.54	1.55	1.48	1.76	17.34
Category V - Irrigation and Agriculture	440.48	398.69	365.31	372.98	489.18	444.22	557.00	435.94	580.42	709.61	657.64	783.43	6234.90
Category VI - Local Bodies, St. Lighting & PWS	49.20	50.36	48.31	48.95	51.18	52.78	47.25	44.33	45.72	49.24	53.66	56.55	597.52
Category VII - General Purpose	5.05	4.65	4.63	4.88	5.38	5.18	4.98	4.92	4.95	4.86	6.57	5.94	61.99
Category VIII-Temporary Supply	0.41	0.25	0.33	0.21	0.32	0.34	0.64	0.62	0.65	0.60	0.66	0.57	5.60
HT Category at 11 KV	286.33	294.62	308.02	272.15	259.98	288.26	287.51	288.15	286.23	294.81	371.69	293.49	3531.25
HT-I Industry Segregated	196.93	196.04	209.83	185.00	178.96	197.34	201.78	204.10	210.41	215.42	270.61	209.67	2476.10
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	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	78.92	88.31	87.93	77.89	72.42	81.13	74.22	72.79	64.98	68.55	88.41	73.33	928.90
HT-IV A Govt. Lift Irrigation Schemes	1.07	0.44	0.20	0.11	0.25	0.59	0.83	0.89	0.69	0.91	1.18	0.80	7.97
HT-IV B Agriculture	2.70	2.86	2.69	2.09	1.54	1.60	3.38	3.22	3.15	3.36	2.86	2.86	32.31
HT-VI Townships and Residential Colonies	6.32	6.41	6.36	6.15	5.90	6.58	6.54	6.30	6.04	6.17	7.65	6.45	76.86
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	0.39	0.56	1.01	0.91	0.91	1.01	0.75	0.85	0.96	0.40	0.98	0.38	9.11
HT Category at 33 KV	334.01	335.83	369.10	339.67	326.71	354.51	333.69	342.55	341.58	363.21	489.32	357.77	4287.96
HT-I Industry Segregated	293.62	292.87	324.59	302.34	290.84	316.89	293.80	304.86	305.15	323.61	433.32	316.21	3798.09
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ANNEXURE-H(ii)
CPDCL:CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 CPDCL Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	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	6.01	5.81	5.68	4.61	5.48	5.76	6.17	4.57	6.15	6.10	8.47	6.06	70.86
HT-II Industrial Non-Segregated	32.65	35.35	36.23	28.14	25.63	27.18	31.82	31.24	28.18	30.36	44.59	32.59	383.96
HT-IV A Govt. Lift Irrigation Schemes	0.00	0.00	0.83	3.09	3.13	3.04	0.10	0.14	0.49	1.34	1.26	1.28	14.70
HT-IV B Agriculture	0.47	0.49	0.45	0.32	0.44	0.46	0.44	0.42	0.37	0.45	0.38	0.43	5.12
HT-VI Townships and Residential Colonies	1.27	1.31	1.32	1.17	1.18	1.19	1.17	1.11	1.00	1.13	1.20	1.19	14.24
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	0.19	0.22	0.24	0.23	0.11	0.00	0.99
HT Category at 132 KV	228.27	223.88	292.36	293.92	300.59	299.39	266.31	263.80	311.67	314.65	395.17	312.35	3502.36
HT-I Industry Segregated	172.01	179.83	200.90	195.51	199.53	190.84	209.42	208.31	212.14	205.67	278.87	201.71	2454.75
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	31.23	21.65	29.93	32.42	32.39	39.72	35.60	34.05	33.98	37.75	35.23	33.73	397.68
HT-II Industrial Non-Segregated	9.69	10.30	10.47	9.48	8.47	8.97	6.76	6.60	6.10	6.96	16.23	10.16	110.18
HT-IV A Govt. Lift Irrigation Schemes	6.28	3.08	41.22	47.56	51.22	50.46	4.92	5.31	49.69	53.76	52.57	56.84	422.90
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	9.06	9.02	9.84	8.95	8.98	9.41	9.61	9.53	9.75	10.51	12.27	9.91	116.84
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
Total	2071.35	2093.98	2078.50	1959.25	2083.59	2096.78	2162.29	1999.59	2216.35	2388.38	2717.87	2553.54	26421.47

ANNEXURE-H(iii)
EPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 EPDCL Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
LT Category	440.50	466.24	450.66	429.21	430.59	402.63	434.66	427.34	456.92	469.26	468.93	466.25	5343.18
Category I Domestic	208.19	239.03	244.31	238.54	222.02	239.71	255.96	247.05	221.92	203.14	201.93	211.64	2733.45
Category II - Non-domestic/Commercial	48.02	49.57	51.76	46.52	47.08	45.97	48.89	46.26	45.38	42.43	44.98	45.45	562.30
Category III (A & B) - Industrial	35.32	41.64	35.50	31.11	27.46	28.03	29.59	30.61	38.51	45.88	46.95	43.22	433.81
Category IV - Cottage Industries & Dhobighats	0.15	0.15	0.15	0.13	0.15	0.13	0.17	0.18	0.20	0.19	0.18	0.18	1.95
Category V - Irrigation and Agriculture	125.33	112.54	97.19	91.39	112.32	66.01	76.25	77.53	125.45	151.18	148.04	139.43	1322.66
Category VI - Local Bodies, St. Lighting & PWS	20.76	20.97	19.57	19.11	18.97	19.86	20.80	22.72	22.45	23.69	24.00	23.44	256.33
Category VII - General Purpose	2.72	2.34	2.16	2.36	2.53	2.85	2.99	2.98	3.00	2.73	2.84	2.87	32.37
Category VIII-Temporary Supply	0.01	0.01	0.02	0.05	0.06	0.06	0.00	0.01	0.01	0.02	0.01	0.01	0.29
HT Category at 11 KV	98.72	107.41	108.09	103.67	103.66	108.11	107.95	107.86	106.68	110.68	117.14	115.35	1295.33
HT-I Industry Segregated	66.55	69.98	73.42	69.56	69.29	70.94	74.21	72.36	73.95	77.11	83.84	78.32	879.53
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.24	0.15	0.02	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.48
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	17.28	19.80	19.42	18.16	18.09	19.12	17.53	17.80	16.11	15.73	16.73	18.00	213.77
HT-IV A Govt. Lift Irrigation Schemes	0.37	0.37	0.35	0.77	0.91	1.52	0.78	1.46	0.72	0.82	0.73	0.99	9.78
HT-IV B Agriculture	0.04	0.18	0.11	0.25	0.10	0.19	0.15	0.26	0.21	0.47	0.29	0.28	2.51
HT-VI Townships and Residential Colonies	1.90	2.16	2.04	1.93	1.92	2.02	1.87	1.88	1.63	1.59	1.66	1.69	22.29
RESCOs	12.35	14.79	12.73	12.99	13.34	14.28	13.41	14.10	14.06	14.95	13.89	16.07	166.96
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
HT Category at 33 KV	52.34	51.64	54.64	53.62	55.65	56.70	50.96	53.89	52.79	51.73	54.83	57.02	645.81
HT-I Industry Segregated	41.16	41.27	44.02	43.36	43.11	42.30	39.62	39.26	40.69	40.80	43.93	45.91	505.41
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	5.56	5.11	5.46	4.91	5.12	5.18	5.62	5.86	5.77	5.69	6.01	5.70	65.98

ANNEXURE-H(iii)
EPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 EPDCL Sales (MU)

Voltage and Consumer Category	MUs												Total
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	
HT-II Industrial Non-Segregated	5.03	4.76	4.83	4.67	5.21	5.46	4.16	4.76	3.72	4.30	4.43	4.82	56.15
HT-IV A Govt. Lift Irrigation Schemes	0.21	0.11	0.12	0.48	2.00	3.53	1.25	3.75	2.32	0.59	0.09	0.25	14.71
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	0.37	0.38	0.22	0.20	0.21	0.22	0.32	0.26	0.28	0.36	0.38	0.35	3.55
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
HT Category at 132 KV	171.04	184.25	164.49	166.00	163.89	193.10	192.45	190.79	188.19	182.63	176.78	183.77	2157.40
HT-I Industry Segregated	83.98	96.58	77.92	84.65	79.21	104.87	105.09	92.59	90.26	83.30	80.50	85.14	1064.08
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	46.89	46.28	45.21	44.81	43.02	46.93	44.83	50.56	53.20	52.09	50.19	54.65	578.68
HT-II Industrial Non-Segregated	1.33	1.15	1.34	1.52	1.17	1.46	0.68	1.42	1.07	1.07	1.50	1.33	15.05
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	38.85	40.24	40.02	35.02	40.49	39.84	41.85	46.21	43.65	46.18	44.60	42.66	499.60
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
Total	762.59	809.54	777.88	752.50	753.79	760.54	786.03	779.88	804.58	814.30	817.68	822.39	9441.71

ANNEXURE-H(IV)
NPDC: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 NPDC Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
LT Category	425.35	387.58	348.03	375.01	522.36	486.56	539.18	430.02	471.78	579.09	551.16	590.60	5706.71
Category I Domestic	138.55	152.74	158.15	144.77	137.94	144.84	149.26	140.31	123.02	124.12	118.04	129.75	1661.49
Category II - Non-domestic/Commercial	28.16	30.87	27.44	29.31	27.37	28.28	28.51	27.45	26.15	25.05	24.45	26.15	329.21
Category III (A & B) - Industrial	23.48	27.20	20.64	24.00	19.79	19.47	24.63	24.04	27.03	37.36	38.97	37.06	323.68
Category IV - Cottage Industries & Dhobighats	0.56	0.52	0.38	0.52	0.47	0.59	0.53	0.52	0.55	0.59	0.49	0.63	6.36
Category V - Irrigation and Agriculture	206.11	147.97	117.40	148.15	308.51	265.82	309.31	211.35	267.83	364.07	340.11	367.90	3054.51
Category VI - Local Bodies, St. Lighting & PWS	21.96	26.72	22.77	26.40	26.12	25.35	24.81	24.50	25.37	26.00	27.42	27.12	304.54
Category VII - General Purpose	6.33	1.55	1.24	1.85	2.17	2.21	2.12	1.86	1.83	1.89	1.68	2.00	26.72
Category VIII-Temporary Supply	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
HT Category at 11 KV	73.01	57.90	65.65	64.03	63.40	68.86	68.34	68.10	78.49	99.14	94.43	89.27	890.62
HT-I Industry Segregated	18.40	18.70	20.44	16.70	15.85	18.88	17.56	21.27	25.28	28.56	29.07	23.84	254.56
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.02	0.10	0.12	0.08	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.47
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	6.23	6.50	6.47	5.67	5.51	6.13	6.12	5.72	5.13	5.41	6.60	6.12	71.61
HT-IV A Govt. Lift Irrigation Schemes	1.10	0.53	0.48	0.44	0.55	2.53	5.60	6.75	6.73	8.77	8.96	8.42	50.87
HT-IV B Agriculture	0.01	0.01	0.01	0.02	0.02	0.00	0.05	0.05	0.05	0.06	0.05	0.03	0.38
HT-VI Townships and Residential Colonies	1.06	1.09	1.17	1.03	1.01	1.14	0.93	0.94	0.92	0.96	0.92	0.98	12.18
RESCOs	46.19	30.97	36.95	40.08	40.38	40.10	38.07	33.37	40.38	55.37	48.82	49.88	500.55
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
HT Category at 33 KV	13.26	16.24	16.31	17.71	25.05	25.48	24.69	23.46	17.09	15.44	14.15	13.20	222.09
HT-I Industry Segregated	5.90	5.87	6.05	5.78	7.08	7.24	6.12	6.14	6.01	6.21	5.39	5.80	73.60
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ANNEXURE-H(IV)
NPDC: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 NPDC Sales (MU)

	MUs												
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	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	0.09	0.09	0.11	0.09	0.08	0.09	0.08	0.07	0.10	0.07	0.09	0.07	1.02
HT-IV A Govt. Lift Irrigation Schemes	3.05	5.56	5.38	7.61	14.17	13.92	14.39	13.71	7.61	5.56	5.02	3.41	99.38
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	4.23	4.72	4.77	4.23	3.72	4.23	4.11	3.54	3.36	3.60	3.65	3.92	48.09
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
HT Category at 132 KV	96.66	94.21	100.25	126.78	166.72	173.42	160.50	160.47	124.30	98.88	98.97	95.73	1496.88
HT-I Industry Segregated	60.11	59.29	63.11	59.52	63.80	70.90	57.86	59.93	57.17	61.76	61.62	59.22	734.29
Lights & Fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Colony consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seasonal Industries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-I (B) Ferro-Alloys	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	0.22	0.00	0.01	0.10	0.16	0.22	0.00	0.00	0.00	0.00	0.01	0.00	0.72
HT-IV A Govt. Lift Irrigation Schemes	0.00	0.00	0.00	31.30	66.48	65.41	67.59	64.30	31.30	0.00	0.00	0.00	326.37
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	30.63	29.12	30.83	30.13	29.92	31.05	29.29	31.15	31.47	32.33	32.83	31.77	370.51
HT-VI Townships and Residential Colonies	5.70	5.80	6.29	5.74	6.36	5.85	5.76	5.09	4.36	4.79	4.51	4.74	64.99
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
Total	608.27	555.93	530.23	583.53	777.52	754.32	792.71	682.06	691.66	792.56	758.71	788.81	8316.31

ANNEXURE-H(v)
SPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 SPDCL Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
LT Category	779.21	853.53	767.63	755.07	719.58	775.00	769.47	694.09	731.39	810.42	733.30	827.74	9216.43
Category I Domestic	297.89	311.19	306.58	284.56	275.82	295.21	300.61	279.52	263.90	263.61	274.36	297.35	3450.59
Category II - Non-domestic/Commercial	68.24	71.05	64.45	66.69	69.66	68.02	65.01	64.94	59.95	61.55	61.32	66.48	787.35
Category III (A & B) - Industrial	61.27	69.12	66.61	63.46	59.49	63.99	65.86	67.76	73.55	80.48	78.70	77.76	828.04
Category IV - Cottage Industries & Dhobighats	2.38	2.20	2.14	2.08	2.19	2.20	2.50	2.57	2.53	3.00	2.27	2.43	28.51
Category V - Irrigation and Agriculture	305.46	359.64	287.05	297.60	267.28	303.40	295.42	234.78	290.54	347.72	263.53	339.17	3591.58
Category VI - Local Bodies, St. Lighting & PWS	39.92	37.23	37.88	37.08	40.85	38.59	36.05	40.75	37.09	50.58	49.02	40.89	485.93
Category VII - General Purpose	4.04	3.11	2.92	3.59	4.28	3.59	3.63	3.56	3.60	3.32	3.84	3.60	43.08
Category VIII-Temporary Supply	0.01	0.00	0.01	0.01	0.01	0.00	0.39	0.21	0.22	0.16	0.25	0.07	1.35
HT Category at 11 KV	111.39	122.21	119.93	112.53	111.91	111.91	118.21	110.60	117.05	113.18	124.41	124.68	1398.00
HT-I Industry Segregated	67.46	68.78	74.24	65.34	64.34	64.49	64.59	64.80	71.79	71.06	74.42	72.37	823.68
Lights & Fans	1.63	1.57	1.71	1.52	1.50	1.46	1.26	1.39	1.49	1.51	1.64	1.67	18.34
Colony consumption	0.13	0.15	0.15	0.12	0.09	0.11	0.17	0.18	0.11	0.10	0.10	0.10	1.52
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	0.66	0.28	0.00	0.00	0.00	0.00	0.94
HT-II Industrial Non-Segregated	23.66	25.74	24.39	23.43	24.02	24.25	20.76	20.62	18.66	18.11	21.49	21.16	266.27
HT-IV A Govt. Lift Irrigation Schemes	0.19	0.22	0.15	0.08	0.12	0.49	0.83	0.73	1.46	1.54	1.15	1.30	8.27
HT-IV B Agriculture	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.27
HT-VI Townships and Residential Colonies	4.32	4.42	4.46	4.27	4.09	4.39	4.05	3.89	3.77	3.75	3.96	3.78	49.13
RESCOs	13.99	21.33	14.84	17.78	17.75	16.45	25.90	18.70	19.78	17.11	21.64	24.28	229.56
Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
HT Category at 33 KV	101.50	99.98	110.84	106.04	103.48	97.62	100.12	106.98	109.13	112.68	117.38	117.00	1282.75

ANNEXURE-H(v)
SPDCL: CATEGORY-WISE AND MONTHLY SALES FOR FY 2009-10

Sales Forecast 2009-10 SPDCL Sales (MU)

Voltage and Consumer Category	MUs												
	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Total
HT-I Industry Segregated	99.90	98.14	108.59	103.66	100.83	94.90	98.46	104.82	104.69	107.69	111.26	111.31	1244.26
Lights & Fans	0.26	0.27	0.47	0.42	0.40	0.33	0.16	0.15	0.18	0.20	0.23	0.23	3.29
Colony consumption	0.25	0.29	0.50	0.27	0.25	0.22	0.26	0.22	0.23	0.24	0.26	0.27	3.29
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	1.01	1.13	1.19	1.31	1.47	1.51	0.87	0.90	0.81	0.90	1.03	1.00	13.13
HT-IV A Govt. Lift Irrigation Schemes	0.01	0.07	0.01	0.32	0.47	0.58	0.31	0.84	3.17	3.60	4.55	4.12	18.06
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	0.06	0.07	0.08	0.07	0.06	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.72
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
HT Category at 132 KV	86.47	90.60	90.37	80.67	96.00	97.96	98.37	97.03	94.70	86.91	111.05	94.91	1125.03
HT-I Industry Segregated	37.93	42.70	40.44	35.72	48.02	52.00	51.78	53.65	48.74	39.01	50.19	33.42	533.60
Lights & Fans	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Colony consumption	0.42	0.55	0.53	0.49	0.46	0.49	0.50	0.48	0.47	0.46	0.49	0.42	5.76
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	0.39	10.99	12.16	23.54
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	48.12	47.35	49.39	44.46	47.48	45.48	46.09	42.90	45.49	47.05	49.39	48.91	562.10
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
Total	1078.56	1166.32	1088.76	1054.31	1030.97	1082.49	1086.18	1008.70	1052.27	1123.19	1086.14	1164.33	13022.21

ANNEXURE-I
CPDCL: COST OF SERVICE MODEL

CPDCL	Generation					
	Demand			Energy		
	Consumer Category	Cost Rs. Cr.	Rate Basis- Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Recovery Basis - Energy Sales (MU)
LT Cat I - Domestic	1036.80	1672.52	516.59	820.42	5201.63	1.58
LT Cat II - Non-domestic	344.59	563.78	509.34	275.84	1731.60	1.59
LT Cat III (A & B) - Industrial	175.16	287.02	508.55	199.21	1249.30	1.59
LT Cat IV - Cottage Industries & Dhobighats	2.43	3.98	508.55	2.76	17.34	1.59
LT Cat V - Irrigation and Agriculture	206.66	2067.80	83.29	955.03	6235.00	1.53
LT Cat VI - Local Bodies, St. Lighting & PWS	119.39	193.96	512.98	92.95	597.52	1.56
LT Cat VII - General Purpose	12.39	20.12	512.98	9.64	61.99	1.56
LT Cat VIII - Temporary	1.12	1.82	512.98	0.87	5.60	1.56
HT Cat I - Industry - General (11 kV)	256.12	830.44	257.01	322.41	2476.10	1.30
HT Cat I - Industry - General (33 kV)	387.47	913.51	353.46	488.95	3868.95	1.26
HT Cat I - Industry - General (220/132 kV)	240.89	658.36	304.91	356.94	2852.43	1.25
HT Cat II - Industry - Other (11 kV)	116.31	432.23	224.25	125.34	928.90	1.35
HT Cat II - Industry - Other (33 kV)	45.32	145.85	258.94	48.52	383.96	1.26
HT Cat II - Industry - Other (220/132 kV)	12.24	40.38	252.66	13.79	110.18	1.25
HT Cat IV - Irrigation & Agriculture (11 kV)	3.31	19.15	144.08	5.25	37.43	1.40
HT Cat IV - Irrigation & Agriculture (33 kV)	35.04	214.58	136.08	56.28	445.30	1.26
HT Cat V - Railway Traction (EHT)	17.40	34.20	424.04	14.62	116.84	1.25
HT Cat VI - Colony Consumption	14.74	33.22	369.69	12.18	91.10	1.34
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	1.27	2.19	483.53	1.30	10.10	1.29
TOTAL	3028.66	8135.12	310.24	3802.33	26421.28	1.44

CPDCL	Transmission - Inter-State			Transmission - Intra-State		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month
LT Cat I - Domestic	22.01	1672.52	10.97	54.75	1672.52	27.28
LT Cat II - Non-domestic	7.42	563.78	10.97	18.45	563.78	27.28
LT Cat III (A & B) - Industrial	3.78	287.02	10.97	9.40	287.02	27.28
LT Cat IV - Cottage Industries & Dhobighats	0.05	3.98	10.97	0.13	3.98	27.28
LT Cat V - Irrigation and Agriculture	27.21	2067.80	10.97	67.69	2067.80	27.28
LT Cat VI - Local Bodies, St. Lighting & PWS	2.55	193.96	10.97	6.35	193.96	27.28
LT Cat VII - General Purpose	0.26	20.12	10.97	0.66	20.12	27.28
LT Cat VIII - Temporary	0.02	1.82	10.97	0.06	1.82	27.28
HT Cat I - Industry - General (11 kV)	19.87	830.44	19.94	49.42	830.44	49.60
HT Cat I - Industry - General (33 kV)	21.86	913.51	19.94	54.37	913.51	49.60
HT Cat I - Industry - General (220/132 kV)	15.75	658.36	19.94	39.18	658.36	49.60
HT Cat II - Industry - Other (11 kV)	10.34	432.23	19.94	25.72	432.23	49.60
HT Cat II - Industry - Other (33 kV)	3.49	145.85	19.94	8.68	145.85	49.60
HT Cat II - Industry - Other (220/132 kV)	0.97	40.38	19.94	2.40	40.38	49.60
HT Cat IV - Irrigation & Agriculture (11 kV)	0.25	19.15	10.97	0.63	19.15	27.28
HT Cat IV - Irrigation & Agriculture (33 kV)	2.82	214.58	10.97	7.02	214.58	27.28
HT Cat V - Railway Traction (EHT)	0.82	34.20	19.94	2.04	34.20	49.60
HT Cat VI - Colony Consumption	0.79	33.22	19.94	1.98	33.22	49.60
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	0.03	2.19	10.97	0.07	2.19	27.28
TOTAL	140.32	8135.12	14.37	349.01	8135.12	35.75

CPDCL	Distribution			Retail Supply		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP T-D interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Energy Sales (MU)	CoS - Rs/kVA/ Month
LT Cat I - Domestic	274.82	1465.27	156.29	15.91	5202.00	0.03
LT Cat II - Non-domestic	91.48	487.78	156.29	5.35	1732.00	0.03
LT Cat III (A & B) - Industrial	46.59	248.41	156.29	3.86	1249.00	0.03
LT Cat IV - Cottage Industries & Dhobighats	0.65	3.45	156.29	0.05	17.00	0.03
LT Cat V - Irrigation and Agriculture	351.37	1873.46	156.29	18.52	6235.00	0.03
LT Cat VI - Local Bodies, St. Lighting & PWS	32.24	171.90	156.29	1.80	598.00	0.03
LT Cat VII - General Purpose	3.34	17.83	156.29	0.19	62.00	0.03
LT Cat VIII - Temporary	0.30	1.61	156.29	0.02	6.00	0.03
HT Cat I - Industry - General (11 kV)	104.96	795.89	109.90	6.25	2476.00	0.03
HT Cat I - Industry - General (33 kV)	39.47	875.51	37.57	9.48	3869.00	0.02
HT Cat I - Industry - General (220/132 kV)	0.00	NA	NA	6.92	2852.00	0.02
HT Cat II - Industry - Other (11 kV)	54.63	414.25	109.90	2.43	929.00	0.03
HT Cat II - Industry - Other (33 kV)	6.30	139.79	37.57	0.94	384.00	0.02
HT Cat II - Industry - Other (220/132 kV)	0.00	NA	NA	0.27	110.00	0.02
HT Cat IV - Irrigation & Agriculture (11 kV)	2.31	17.54	109.90	0.10	37.00	0.03
HT Cat IV - Irrigation & Agriculture (33 kV)	9.25	205.13	37.57	1.09	445.00	0.02
HT Cat V - Railway Traction (EHT)	0.00	NA	NA	0.28	117.00	0.02
HT Cat VI - Colony Consumption	4.31	32.67	109.90	0.24	91.00	0.03
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	0.26	1.97	109.90	0.03	10.00	0.03
TOTAL	1022.29	6752.47	126.16	73.72	26421.00	0.03

CPDCL	Cost Allocation (Rs.Cr.)			
Consumer Category	Demand - Generation	Demand - Transmission	Demand - Distribution	Energy
LT Cat I - Domestic	1036.80	76.76	274.82	836.33
LT Cat II - Non-domestic	344.59	25.87	91.48	281.19
LT Cat III (A & B) - Industrial	175.16	13.17	46.59	203.07
LT Cat IV - Cottage Industries & Dhobighats	2.43	0.18	0.65	2.82
LT Cat V - Irrigation and Agriculture	206.66	94.90	351.37	973.54
LT Cat VI - Local Bodies, St. Lighting & PWS	119.39	8.90	32.24	94.76
LT Cat VII - General Purpose	12.39	0.92	3.34	9.83
LT Cat VIII - Temporary	1.12	0.08	0.30	0.89
HT Cat I - Industry - General (11 kV)	256.12	69.30	104.96	328.67
HT Cat I - Industry - General (33 kV)	387.47	76.23	39.47	498.43
HT Cat I - Industry - General (220/132 kV)	240.89	54.94	0.00	363.86
HT Cat II - Industry - Other (11 kV)	116.31	36.07	54.63	127.77
HT Cat II - Industry - Other (33 kV)	45.32	12.17	6.30	49.46
HT Cat II - Industry - Other (220/132 kV)	12.24	3.37	0.00	14.05
HT Cat IV - Irrigation & Agriculture (11 kV)	3.31	0.88	2.31	5.36
HT Cat IV - Irrigation & Agriculture (33 kV)	35.04	9.85	9.25	57.37
HT Cat V - Railway Traction (EHT)	17.40	2.85	0.00	14.90
HT Cat VI - Colony Consumption	14.74	2.77	4.31	12.42
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	1.27	0.10	0.26	1.33
TOTAL	3028.66	489.33	1022.29	3876.05

CPDCL	Cost Allocation (Rs Cr.)		Total Cost Rs.Cr.	Sales MU	COS Rs/Unit
	Demand	Energy			
LT Cat I - Domestic	1388.38	836.33	2224.71	5201.63	4.28
LT Cat II - Non-domestic	461.95	281.19	743.14	1731.60	4.29
LT Cat III (A & B) - Industrial	234.92	203.07	437.99	1249.30	3.51
LT Cat IV - Cottage Industries & Dhobighats	3.26	2.82	6.08	17.34	3.51
LT Cat V - Irrigation and Agriculture	652.94	973.54	1626.48	6235.00	2.61
LT Cat VI - Local Bodies, St. Lighting & PWS	160.54	94.76	255.29	597.52	4.27
LT Cat VII - General Purpose	16.65	9.83	26.49	61.99	4.27
LT Cat VIII - Temporary	1.50	0.89	2.39	5.60	4.27
HT Cat I - Industry - General (11 kV)	430.38	328.67	759.05	2476.10	3.07
HT Cat I - Industry - General (33 kV)	503.17	498.43	1001.60	3868.95	2.59
HT Cat I - Industry - General (220/132 kV)	295.82	363.86	659.68	2852.43	2.31
HT Cat II - Industry - Other (11 kV)	207.01	127.77	334.78	928.90	3.60
HT Cat II - Industry - Other (33 kV)	63.79	49.46	113.26	383.96	2.95
HT Cat II - Industry - Other (220/132 kV)	15.61	14.05	29.67	110.18	2.69
HT Cat IV - Irrigation & Agriculture (11 kV)	6.50	5.36	11.86	37.43	3.17
HT Cat IV - Irrigation & Agriculture (33 kV)	54.14	57.37	111.50	445.30	2.50
HT Cat V - Railway Traction (EHT)	20.26	14.90	35.16	116.84	3.01
HT Cat VI - Colony Consumption	21.82	12.42	34.23	91.10	3.76
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	1.63	1.33	2.96	10.10	2.93
TOTAL	4540.27	3876.05	8416.32	26421.28	3.19

ANNEXURE-J
EPDCL: COST OF SERVICE MODEL

EPDCL	Generation					
	Demand			Energy		
	Consumer Category	Cost Rs. Cr.	Rate Basis- Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Recovery Basis - Energy Sales (MU)
LT Cat I - Domestic	450.33	838.60	447.50	418.51	2733.45	1.53
LT Cat II - Non-domestic	94.81	172.84	457.11	86.23	562.30	1.53
LT Cat III (A & B) - Industrial	49.12	96.00	426.40	66.80	433.81	1.54
LT Cat IV - Cottage Industries & Dhobighats	0.22	0.43	426.40	0.30	1.95	1.54
LT Cat V - Irrigation and Agriculture	41.77	461.04	75.49	201.34	1322.00	1.52
LT Cat VI - Local Bodies St. Lighting & PWS	45.20	88.48	425.65	40.26	256.33	1.57
LT Cat VII - General Purpose	5.71	11.18	425.65	5.09	32.37	1.57
LT Cat VIII - Temporary	0.05	0.10	425.65	0.05	0.29	1.57
HT Cat I - Industry - General (11 kV)	80.64	290.34	231.44	114.05	880.01	1.30
HT Cat I - Industry - General (33 kV)	51.03	170.85	248.92	72.45	571.40	1.27
HT Cat I - Industry - General (220/132 kV)	127.13	440.40	240.55	207.29	1642.76	1.26
HT Cat II - Industry - Other (11 kV)	22.92	110.18	173.38	27.70	213.77	1.30
HT Cat II - Industry - Other (33 kV)	5.05	18.05	233.12	7.12	56.15	1.27
HT Cat II - Industry - Other (220/132 kV)	1.25	12.45	83.73	1.90	15.05	1.26
HT Cat IV - Irrigation & Agriculture (11 kV)	0.08	0.86	74.88	0.33	2.51	1.30
HT Cat IV - Irrigation & Agriculture (33 kV)	0.71	7.93	74.81	3.10	24.49	1.27
HT Cat V - Railway Traction (EHT)	68.19	173.31	327.88	63.04	499.60	1.26
HT Cat VI - Colony Consumption	3.52	9.15	321.01	3.35	25.84	1.30
HT Rural Co-operatives (11 kV)	10.64	34.16	259.58	21.64	166.96	1.30
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
TOTAL	1058.36	2936.33	300.36	1340.54	9441.05	1.42

EPDCL	Transmission - Inter-State			Transmission - Intra-State		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/Kva/ Month	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/Kva/ Month
LT Cat I - Domestic	9.76	838.60	9.70	24.91	838.60	24.75
LT Cat II - Non-domestic	2.01	172.84	9.70	5.13	172.84	24.75
LT Cat III (A & B) - Industrial	1.12	96.00	9.70	2.85	96.00	24.75
LT Cat IV - Cottage Industries & Dhobighats	0.01	0.43	9.70	0.01	0.43	24.75
LT Cat V - Irrigation and Agriculture	5.37	461.04	9.70	13.70	461.04	24.75
LT Cat VI - Local Bodies St. Lighting & PWS	1.03	88.48	9.70	2.63	88.48	24.75
LT Cat VII - General Purpose	0.13	11.18	9.70	0.33	11.18	24.75
LT Cat VIII - Temporary	0.00	0.10	9.70	0.00	0.10	24.75
HT Cat I - Industry - General (11 Kv)	6.77	290.34	19.43	17.28	290.34	49.60
HT Cat I - Industry - General (33 Kv)	3.98	170.85	19.43	10.17	170.85	49.60
HT Cat I - Industry - General (220/132 Kv)	10.27	440.40	19.43	26.21	440.40	49.60
HT Cat II - Industry - Other (11 Kv)	2.57	110.18	19.43	6.56	110.18	49.60
HT Cat II - Industry - Other (33 Kv)	0.42	18.05	19.43	1.07	18.05	49.60
HT Cat II - Industry - Other (220/132 Kv)	0.29	12.45	19.43	0.74	12.45	49.60
HT Cat IV - Irrigation & Agriculture (11 Kv)	0.01	0.86	9.70	0.03	0.86	24.75
HT Cat IV - Irrigation & Agriculture (33 Kv)	0.09	7.93	9.70	0.24	7.93	24.75
HT Cat V - Railway Traction (EHT)	4.04	173.31	19.43	10.31	173.31	49.60
HT Cat VI - Colony Consumption	0.21	9.15	19.43	0.54	9.15	49.60
HT Rural Co-operatives (11 Kv)	0.40	34.16	9.70	1.01	34.16	24.75
HT Rural Co-operatives (33 Kv)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	NA	0.00	0.00	NA
TOTAL	48.47	2936.33	13.76	123.73	2936.33	35.12

EPDCL	Distribution			Retail Supply		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP T-D interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Energy Sales (MU)	CoS - Rs/kVA/ Month
LT Cat I - Domestic	255.23	749.96	283.61	11.50	2733	0.04
LT Cat II - Non-domestic	52.50	154.28	283.61	2.37	562	0.04
LT Cat III (A & B) - Industrial	29.02	85.27	283.61	1.84	434	0.04
LT Cat IV - Cottage Industries & Dhobighats	0.13	0.38	283.61	0.01	2	0.04
LT Cat V - Irrigation and Agriculture	141.07	414.52	283.61	5.53	1322	0.04
LT Cat VI - Local Bodies St. Lighting & PWS	26.11	76.72	283.61	1.11	256	0.04
LT Cat VII - General Purpose	3.30	9.69	283.61	0.14	32	0.04
LT Cat VIII - Temporary	0.03	0.09	283.61	0.00	0	0.04
HT Cat I - Industry - General (11 kV)	22.54	278.26	67.49	3.13	880	0.04
HT Cat I - Industry - General (33 kV)	2.56	163.74	13.02	1.99	571	0.03
HT Cat I - Industry - General (220/132 kV)	0.00		NA	5.70	1643	0.03
HT Cat II - Industry - Other (11 kV)	8.55	105.59	67.49	0.76	214	0.04
HT Cat II - Industry - Other (33 kV)	0.27	17.30	13.02	0.20	56	0.03
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.05	15	0.03
HT Cat IV - Irrigation & Agriculture (11 kV)	0.07	0.81	67.49	0.01	3	0.04
HT Cat IV - Irrigation & Agriculture (33 kV)	0.12	7.58	13.02	0.09	24	0.03
HT Cat V - Railway Traction (EHT)	0.00		NA	1.73	500	0.03
HT Cat VI - Colony Consumption	0.72	8.95	67.49	0.09	26	0.04
HT Rural Co-operatives (11 kV)	2.63	32.43	67.49	0.59	167	0.04
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.00	0.00	NA	0.00	0	NA
TOTAL	544.85	2105.59	215.64	36.84	9441	0.04

EPDCL	Cost Allocation (Rs.Cr.)			
Consumer Category	Demand - Generation	Demand - Transmission	Demand - Distribution	Energy
LT Cat I - Domestic	450.33	34.67	255.23	430.02
LT Cat II - Non-domestic	94.81	7.15	52.50	88.60
LT Cat III (A & B) - Industrial	49.12	3.97	29.02	68.64
LT Cat IV - Cottage Industries & Dhobighats	0.22	0.02	0.13	0.31
LT Cat V - Irrigation and Agriculture	41.77	19.06	141.07	206.87
LT Cat VI - Local Bodies St. Lighting & PWS	45.20	3.66	26.11	41.37
LT Cat VII - General Purpose	5.71	0.46	3.30	5.22
LT Cat VIII - Temporary	0.05	0.00	0.03	0.05
HT Cat I - Industry - General (11 kV)	80.64	24.05	22.54	117.18
HT Cat I - Industry - General (33 kV)	51.03	14.15	2.56	74.44
HT Cat I - Industry - General (220/132 kV)	127.13	36.48	0.00	212.99
HT Cat II - Industry - Other (11 kV)	22.92	9.13	8.55	28.47
HT Cat II - Industry - Other (33 kV)	5.05	1.50	0.27	7.32
HT Cat II - Industry - Other (220/132 kV)	1.25	1.03	0.00	1.95
HT Cat IV - Irrigation & Agriculture (11 kV)	0.08	0.04	0.07	0.33
HT Cat IV - Irrigation & Agriculture (33 kV)	0.71	0.33	0.12	3.19
HT Cat V - Railway Traction (EHT)	68.19	14.36	0.00	64.77
HT Cat VI - Colony Consumption	3.52	0.76	0.72	3.44
HT Rural Co-operatives (11 kV)	10.64	1.41	2.63	22.23
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00
TOTAL	1058.36	172.21	544.85	1377.38

EPDCL Consumer Category	Cost Allocation (Rs Cr.)		Total Cost Rs.Cr.	Sales MU	COS Rs/Unit
	Demand	Energy			
LT Cat I - Domestic	740.23	430.02	1170.24	2733.45	4.28
LT Cat II - Non-domestic	154.46	88.60	243.06	562.30	4.32
LT Cat III (A & B) - Industrial	82.11	68.64	150.75	433.81	3.48
LT Cat IV - Cottage Industries & Dhobighats	0.37	0.31	0.68	1.95	3.48
LT Cat V - Irrigation and Agriculture	201.90	206.87	408.77	1322.00	3.09
LT Cat VI - Local Bodies St. Lighting & PWS	74.96	41.37	116.33	256.33	4.54
LT Cat VII - General Purpose	9.47	5.22	14.69	32.37	4.54
LT Cat VIII - Temporary	0.09	0.05	0.13	0.29	4.54
HT Cat I - Industry - General (11 kV)	127.22	117.18	244.40	880.01	2.78
HT Cat I - Industry - General (33 kV)	67.74	74.44	142.18	571.40	2.49
HT Cat I - Industry - General (220/132 kV)	163.60	212.99	376.59	1642.76	2.29
HT Cat II - Industry - Other (11 kV)	40.60	28.47	69.07	213.77	3.23
HT Cat II - Industry - Other (33 kV)	6.82	7.32	14.13	56.15	2.52
HT Cat II - Industry - Other (220/132 kV)	2.28	1.95	4.23	15.05	2.81
HT Cat IV - Irrigation & Agriculture (11 kV)	0.18	0.33	0.51	2.51	2.04
HT Cat IV - Irrigation & Agriculture (33 kV)	1.16	3.19	4.35	24.49	1.78
HT Cat V - Railway Traction (EHT)	82.54	64.77	147.32	499.60	2.95
HT Cat VI - Colony Consumption	5.01	3.44	8.45	25.84	3.27
HT Rural Co-operatives (11 kV)	14.68	22.23	36.91	166.96	2.21
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
TOTAL	1775.42	1377.38	3152.80	9441.05	3.34

ANNEXURE-K
NPDCCL: COST OF SERVICE MODEL

NPDCCL	Generation					
	Demand			Energy		
	Consumer Category	Cost Rs. Cr.	Rate Basis- Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Recovery Basis - Energy Sales (MU)
LT Cat I - Domestic	348.44	554.26	523.88	250.08	1,661.49	1.51
LT Cat II - Non-domestic	75.31	124.77	503.00	52.67	329.21	1.60
LT Cat III (A & B) - Industrial	53.09	87.57	505.20	49.24	323.68	1.52
LT Cat IV - Cottage Industries & Dhobighats	1.04	1.72	504.13	0.97	6.36	1.52
LT Cat V - Irrigation and Agriculture	113.86	1,069.15	88.75	444.62	3,054.00	1.46
LT Cat VI - Local Bodies St. Lighting & PWS	74.21	119.22	518.72	46.71	304.54	1.53
LT Cat VII - General Purpose	6.49	10.41	519.72	4.10	26.72	1.53
LT Cat VIII - Temporary	0.05	0.07	532.47	0.03	0.20	1.53
HT Cat I - Industry - General (11 kV)	29.99	117.87	212.01	32.76	255.03	1.28
HT Cat I - Industry - General (33 kV)	8.15	22.21	305.87	8.89	73.60	1.21
HT Cat I - Industry - General (220/132 kV)	65.46	135.97	401.18	87.83	734.29	1.20
HT Cat II - Industry - Other (11 kV)	8.19	25.76	265.05	9.50	71.61	1.33
HT Cat II - Industry - Other (33 kV)	0.12	0.26	375.63	0.12	1.02	1.21
HT Cat II - Industry - Other (220/132 kV)	0.08	0.31	214.10	0.09	0.72	1.20
HT Cat IV - Irrigation & Agriculture (11 kV)	0.04	0.19	174.95	0.05	0.38	1.22
HT Cat IV - Irrigation & Agriculture (33 kV)	48.05	230.75	173.53	58.86	477.00	1.23
HT Cat V - Railway Traction (EHT)	59.09	103.41	476.13	44.32	370.51	1.20
HT Cat VI - Colony Consumption	20.54	36.38	470.55	15.24	125.26	1.22
HT Rural Co-operatives (11 kV)	36.62	95.49	319.58	61.05	500.55	1.22
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
TOTAL	948.82	2,735.78	289.02	1167.12	8316.18	1.40

NPDCCL	Transmission - Inter-State			Transmission - Intra-State		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month
LT Cat I - Domestic	9.18	554.26	13.80	22.58	554.26	33.95
LT Cat II - Non-domestic	2.07	124.77	13.80	5.08	124.77	33.95
LT Cat III (A & B) - Industrial	1.45	87.57	13.80	3.57	87.57	33.95
LT Cat IV - Cottage Industries & Dhobighats	0.03	1.72	13.80	0.07	1.72	33.95
LT Cat V - Irrigation and Agriculture	17.71	1,069.15	13.80	43.55	1,069.15	33.95
LT Cat VI - Local Bodies St. Lighting & PWS	1.97	119.22	13.80	4.86	119.22	33.95
LT Cat VII - General Purpose	0.17	10.41	13.80	0.42	10.41	33.95
LT Cat VIII - Temporary	0.00	0.07	13.80	0.00	0.07	33.95
HT Cat I - Industry - General (11 kV)	2.85	117.87	20.17	7.02	117.87	49.60
HT Cat I - Industry - General (33 kV)	0.54	22.21	20.17	1.32	22.21	49.60
HT Cat I - Industry - General (220/132 kV)	3.29	135.97	20.17	8.09	135.97	49.60
HT Cat II - Industry - Other (11 kV)	0.62	25.76	20.17	1.53	25.76	49.60
HT Cat II - Industry - Other (33 kV)	0.01	0.26	20.17	0.02	0.26	49.60
HT Cat II - Industry - Other (220/132 kV)	0.01	0.31	20.17	0.02	0.31	49.60
HT Cat IV - Irrigation & Agriculture (11 kV)	0.00	0.19	13.80	0.01	0.19	33.95
HT Cat IV - Irrigation & Agriculture (33 kV)	3.82	230.75	13.80	9.40	230.75	33.95
HT Cat V - Railway Traction (EHT)	2.50	103.41	20.17	6.15	103.41	49.60
HT Cat VI - Colony Consumption	0.88	36.38	20.17	2.17	36.38	49.60
HT Rural Co-operatives (11 kV)	1.58	95.49	13.80	3.89	95.49	33.95
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
TOTAL	48.69	2735.78	14.83	119.75	2735.78	36.48

NPDCL	Distribution			Retail Supply		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP T-D interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Energy Sales (MU)	CoS - Rs/kVA/ Month
LT Cat I - Domestic	133.04	489.38	226.55	4.35	1661	0.03
LT Cat II - Non-domestic	28.16	103.58	226.55	0.92	329	0.03
LT Cat III (A & B) - Industrial	20.65	75.95	226.55	0.86	324	0.03
LT Cat IV - Cottage Industries & Dhobighats	0.41	1.49	226.55	0.02	6	0.03
LT Cat V - Irrigation and Agriculture	267.30	983.21	226.55	7.74	3054	0.03
LT Cat VI - Local Bodies St. Lighting & PWS	27.95	102.83	226.55	0.81	305	0.03
LT Cat VII - General Purpose	2.45	9.02	226.55	0.07	27	0.03
LT Cat VIII - Temporary	0.02	0.07	226.55	0.00	0	0.03
HT Cat I - Industry - General (11 kV)	13.63	112.97	100.53	0.57	255	0.02
HT Cat I - Industry - General (33 kV)	0.65	21.29	25.48	0.15	74	0.02
HT Cat I - Industry - General (220/132 kV)	0.00		NA	1.53	734	0.02
HT Cat II - Industry - Other (11 kV)	2.98	24.69	100.53	0.17	72	0.02
HT Cat II - Industry - Other (33 kV)	0.01	0.25	25.48	0.00	1	0.02
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.00	1	0.02
HT Cat IV - Irrigation & Agriculture (11 kV)	0.02	0.18	100.53	0.00	0	0.02
HT Cat IV - Irrigation & Agriculture (33 kV)	6.66	218.01	25.48	1.02	477	0.02
HT Cat V - Railway Traction (EHT)	0.00		NA	0.77	371	0.02
HT Cat VI - Colony Consumption	4.27	35.43	100.53	0.27	125	0.02
HT Rural Co-operatives (11 kV)	10.94	90.72	100.53	1.06	501	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
TOTAL	519.15	2269.06	190.66	20.31	8316	0.02

NPDCL	Cost Allocation (Rs.Cr.)			
	Consumer Category	Demand - Generation	Demand - Transmission	Demand - Distribution
LT Cat I - Domestic	348.44	31.76	133.04	254.43
LT Cat II - Non-domestic	75.31	7.15	28.16	53.58
LT Cat III (A & B) - Industrial	53.09	5.02	20.65	50.09
LT Cat IV - Cottage Industries & Dhobighats	1.04	0.10	0.41	0.98
LT Cat V - Irrigation and Agriculture	113.86	61.26	267.30	452.36
LT Cat VI - Local Bodies St. Lighting & PWS	74.21	6.83	27.95	47.53
LT Cat VII - General Purpose	6.49	0.60	2.45	4.17
LT Cat VIII - Temporary	0.05	0.00	0.02	0.03
HT Cat I - Industry - General (11 kV)	29.99	9.87	13.63	33.33
HT Cat I - Industry - General (33 kV)	8.15	1.86	0.65	9.05
HT Cat I - Industry - General (220/132 kV)	65.46	11.38	0.00	89.36
HT Cat II - Industry - Other (11 kV)	8.19	2.16	2.98	9.67
HT Cat II - Industry - Other (33 kV)	0.12	0.02	0.01	0.13
HT Cat II - Industry - Other (220/132 kV)	0.08	0.03	0.00	0.09
HT Cat IV - Irrigation & Agriculture (11 kV)	0.04	0.01	0.02	0.05
HT Cat IV - Irrigation & Agriculture (33 kV)	48.05	13.22	6.66	59.88
HT Cat V - Railway Traction (EHT)	59.09	8.66	0.00	45.09
HT Cat VI - Colony Consumption	20.54	3.05	4.27	15.51
HT Rural Co-operatives (11 kV)	36.62	5.47	10.94	62.11
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00
TOTAL	948.82	168.44	519.15	1187.43

NPDCL	Cost Allocation (Rs Cr.)		Total Cost Rs.Cr.	Sales MU	COS Rs/Unit
	Demand	Energy			
LT Cat I - Domestic	513.24	254.43	767.67	1661.49	4.62
LT Cat II - Non-domestic	110.62	53.58	164.20	329.21	4.99
LT Cat III (A & B) - Industrial	78.76	50.09	128.85	323.68	3.98
LT Cat IV - Cottage Industries & Dhobighats	1.55	0.98	2.53	6.36	3.98
LT Cat V - Irrigation and Agriculture	442.42	452.36	894.77	3054.00	2.93
LT Cat VI - Local Bodies St. Lighting & PWS	108.99	47.53	156.52	304.54	5.14
LT Cat VII - General Purpose	9.54	4.17	13.71	26.72	5.13
LT Cat VIII - Temporary	0.07	0.03	0.10	0.20	5.03
HT Cat I - Industry - General (11 kV)	53.48	33.33	86.81	255.03	3.40
HT Cat I - Industry - General (33 kV)	10.66	9.05	19.71	73.60	2.68
HT Cat I - Industry - General (220/132 kV)	76.84	89.36	166.20	734.29	2.26
HT Cat II - Industry - Other (11 kV)	13.33	9.67	22.99	71.61	3.21
HT Cat II - Industry - Other (33 kV)	0.15	0.13	0.27	1.02	2.66
HT Cat II - Industry - Other (220/132 kV)	0.11	0.09	0.19	0.72	2.69
HT Cat IV - Irrigation & Agriculture (11 kV)	0.07	0.05	0.12	0.38	3.10
HT Cat IV - Irrigation & Agriculture (33 kV)	67.94	59.88	127.82	477.00	2.68
HT Cat V - Railway Traction (EHT)	67.74	45.09	112.83	370.51	3.05
HT Cat VI - Colony Consumption	27.86	15.51	43.37	125.26	3.46
HT Rural Co-operatives (11 kV)	53.04	62.11	115.14	500.55	2.30
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
TOTAL	1636.40	1187.43	2823.83	8316.18	3.40

ANNEXURE-L
SPDCL: COST OF SERVICE MODEL

SPDCL	Generation					
	Demand			Energy		
	Consumer Category	Cost Rs. Cr.	Rate Basis- Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Recovery Basis - Energy Sales (MU)
LT Cat I - Domestic	592.83	998.05	494.99	554.50	3450.59	1.61
LT Cat II - Non-domestic	142.74	243.25	489.01	127.15	787.35	1.61
LT Cat III (A & B) - Industrial	98.73	184.91	444.97	133.69	828.04	1.61
LT Cat IV - Cottage Industries & Dhobighats	3.40	6.37	444.97	4.60	28.51	1.61
LT Cat V - Irrigation and Agriculture	102.58	1087.88	78.58	547.93	3457.00	1.58
LT Cat VI - Local Bodies St. Lighting & PWS	95.22	205.88	385.42	79.01	485.93	1.63
LT Cat VII - General Purpose	8.44	18.25	385.42	7.00	43.08	1.63
LT Cat VIII - Temporary	0.26	0.57	385.42	0.22	1.35	1.63
HT Cat I - Industry - General (11 kV)	82.91	277.24	249.21	116.70	844.48	1.38
HT Cat I - Industry - General (33 kV)	117.97	281.73	348.95	168.23	1250.84	1.34
HT Cat I - Industry - General (220/132 kV)	42.64	118.55	299.76	72.15	539.39	1.34
HT Cat II - Industry - Other (11 kV)	26.74	112.40	198.27	36.85	266.27	1.38
HT Cat II - Industry - Other (33 kV)	1.34	5.49	202.79	1.77	13.13	1.34
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)	0.00	0.00	NA	0.00	0.00	NA
HT Cat IV - Irrigation & Agriculture (33 kV)	2.85	18.09	131.43	5.09	37.42	1.36
HT Cat V - Railway Traction (EHT)	76.25	196.96	322.62	75.19	562.10	1.34
HT Cat VI - Colony Consumption	7.14	13.32	446.52	6.90	49.85	1.38
HT Rural Co-operatives (11 kV)	14.98	54.85	227.60	31.31	229.56	1.36
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	710.97	0.00	0.02	1.36
TOTAL	1417.04	3823.79	308.82	1968.30	12874.90	1.53

SPDCL	Transmission - Inter-State			Transmission - Intra-State		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Contracts /NCP G-T interface (MW)	CoS - Rs/kVA / Month
LT Cat I - Domestic	15.91	998.05	13.28	40.69	998.05	33.97
LT Cat II - Non-domestic	3.88	243.25	13.28	9.92	243.25	33.97
LT Cat III (A & B) - Industrial	2.95	184.91	13.28	7.54	184.91	33.97
LT Cat IV - Cottage Industries & Dhobighats	0.10	6.37	13.28	0.26	6.37	33.97
LT Cat V - Irrigation and Agriculture	17.34	1087.88	13.28	44.35	1087.88	33.97
LT Cat VI - Local Bodies St. Lighting & PWS	3.28	205.88	13.28	8.39	205.88	33.97
LT Cat VII - General Purpose	0.29	18.25	13.28	0.74	18.25	33.97
LT Cat VIII - Temporary	0.01	0.57	13.28	0.02	0.57	33.97
HT Cat I - Industry - General (11 kV)	6.45	277.24	19.39	16.50	277.24	49.60
HT Cat I - Industry - General (33 kV)	6.56	281.73	19.39	16.77	281.73	49.60
HT Cat I - Industry - General (220/132 kV)	2.76	118.55	19.39	7.06	118.55	49.60
HT Cat II - Industry - Other (11 kV)	2.62	112.40	19.39	6.69	112.40	49.60
HT Cat II - Industry - Other (33 kV)	0.13	5.49	19.39	0.33	5.49	49.60
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)	0.00	0.00	NA	0.00	0.00	NA
HT Cat IV - Irrigation & Agriculture (33 kV)	0.29	18.09	13.28	0.74	18.09	33.97
HT Cat V - Railway Traction (EHT)	4.58	196.96	19.39	11.72	196.96	49.60
HT Cat VI - Colony Consumption	0.31	13.32	19.39	0.79	13.32	49.60
HT Rural Co-operatives (11 kV)	0.87	54.85	13.28	2.24	54.85	33.97
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0.00	NA
HT Temporary	0.00	0.00	13.28	0.00	0.00	33.97
TOTAL	68.32	3823.79	14.89	174.74	3823.79	38.08

SPDCL	Distribution			Retail Supply		
Consumer Category	Demand			Demand		
	Cost Rs. Cr.	Rate Basis - Contracts /NCP T-D interface (MW)	CoS - Rs/kVA / Month	Cost Rs. Cr.	Rate Basis - Energy Sales (MU)	CoS - Rs/kVA/ Month
LT Cat I - Domestic	251.19	908.01	230.53	12.85	3,451	0.04
LT Cat II - Non-domestic	60.90	220.14	230.53	2.95	787	0.04
LT Cat III (A & B) - Industrial	45.88	165.86	230.53	3.10	828	0.04
LT Cat IV - Cottage Industries & Dhobighats	1.58	5.71	230.53	0.11	29	0.04
LT Cat V - Irrigation and Agriculture	279.01	1,008.57	230.53	12.70	3,457	0.04
LT Cat VI - Local Bodies St. Lighting & PWS	51.54	186.32	230.53	1.83	486	0.04
LT Cat VII - General Purpose	4.57	16.52	230.53	0.16	43	0.04
LT Cat VIII - Temporary	0.14	0.52	230.53	0.01	1	0.04
HT Cat I - Industry - General (11 kV)	52.16	265.71	163.60	2.70	844	0.03
HT Cat I - Industry - General (33 kV)	11.59	270.01	35.78	3.90	1,251	0.03
HT Cat I - Industry - General (220/132 kV)	0.00		NA	1.67	539	0.03
HT Cat II - Industry - Other (11 kV)	21.15	107.72	163.60	0.85	266	0.03
HT Cat II - Industry - Other (33 kV)	0.23	5.26	35.78	0.04	13	0.03
HT Cat II - Industry - Other (220/132 kV)	0.00		NA	0.00	0	NA
HT Cat IV - Irrigation & Agriculture (11 kV)	0.00	0.00	NA	0.00	0	NA
HT Cat IV - Irrigation & Agriculture (33 kV)	0.74	17.17	35.78	0.12	37	0.03
HT Cat V - Railway Traction (EHT)	0.00		NA	1.74	562	0.03
HT Cat VI - Colony Consumption	2.55	13.00	163.60	0.16	50	0.03
HT Rural Co-operatives (11 kV)	10.27	52.32	163.60	0.73	230	0.03
HT Rural Co-operatives (33 kV)	0.00	0.00	NA	0.00	0	NA
HT Temporary	0.00	0.00	163.60	0.00	0	0.03
TOTAL	793.51	3,242.85	203.91	45.61	12,875	0.04

SPDCL	Cost Allocation (Rs.Cr.)			
	Consumer Category	Demand - Generation	Demand - Transmission	Demand - Distribution
LT Cat I - Domestic	592.83	56.60	251.19	567.35
LT Cat II - Non-domestic	142.74	13.79	60.90	130.10
LT Cat III (A & B) - Industrial	98.73	10.49	45.88	136.79
LT Cat IV - Cottage Industries & Dhobighats	3.40	0.36	1.58	4.71
LT Cat V - Irrigation and Agriculture	102.58	61.69	279.01	560.63
LT Cat VI - Local Bodies St. Lighting & PWS	95.22	11.67	51.54	80.85
LT Cat VII - General Purpose	8.44	1.04	4.57	7.17
LT Cat VIII - Temporary	0.26	0.03	0.14	0.22
HT Cat I - Industry - General (11 kV)	82.91	22.95	52.16	119.41
HT Cat I - Industry - General (33 kV)	117.97	23.32	11.59	172.12
HT Cat I - Industry - General (220/132 kV)	42.64	9.81	0.00	73.82
HT Cat II - Industry - Other (11 kV)	26.74	9.31	21.15	37.70
HT Cat II - Industry - Other (33 kV)	1.34	0.45	0.23	1.81
HT Cat II - Industry - Other (220/132 kV)	0.00	0.00	0.00	0.00
HT Cat IV - Irrigation & Agriculture (11 kV)	0.00	0.00	0.00	0.00
HT Cat IV - Irrigation & Agriculture (33 kV)	2.85	1.03	0.74	5.21
HT Cat V - Railway Traction (EHT)	76.25	16.31	0.00	76.93
HT Cat VI - Colony Consumption	7.14	1.10	2.55	7.06
HT Rural Co-operatives (11 kV)	14.98	3.11	10.27	32.04
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.00	0.00
TOTAL	1417.04	243.07	793.51	2013.91

SPDCL	Cost Allocation (Rs Cr.)		Total Cost Rs.Cr.	Sales MU	COS Rs/Unit
	Demand	Energy			
LT Cat I - Domestic	900.62	567.35	1467.97	3450.59	4.25
LT Cat II - Non-domestic	217.43	130.10	347.53	787.35	4.41
LT Cat III (A & B) - Industrial	155.10	136.79	291.89	828.04	3.53
LT Cat IV - Cottage Industries & Dhobighats	5.34	4.71	10.05	28.51	3.53
LT Cat V - Irrigation and Agriculture	443.28	560.63	1003.91	3457.00	2.90
LT Cat VI - Local Bodies St. Lighting & PWS	158.44	80.85	239.28	485.93	4.92
LT Cat VII - General Purpose	14.05	7.17	21.21	43.08	4.92
LT Cat VIII - Temporary	0.44	0.22	0.66	1.35	4.92
HT Cat I - Industry - General (11 kV)	158.03	119.41	277.43	844.48	3.29
HT Cat I - Industry - General (33 kV)	152.89	172.12	325.01	1250.84	2.60
HT Cat I - Industry - General (220/132 kV)	52.46	73.82	126.28	539.39	2.34
HT Cat II - Industry - Other (11 kV)	57.20	37.70	94.90	266.27	3.56
HT Cat II - Industry - Other (33 kV)	2.02	1.81	3.82	13.13	2.91
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)	0.00	0.00	0.00	0.00	0.00
HT Cat IV - Irrigation & Agriculture (33 kV)	4.62	5.21	9.83	37.42	2.63
HT Cat V - Railway Traction (EHT)	92.56	76.93	169.49	562.10	3.02
HT Cat VI - Colony Consumption	10.80	7.06	17.85	49.85	3.58
HT Rural Co-operatives (11 kV)	28.36	32.04	60.40	229.56	2.63
HT Rural Co-operatives (33 kV)	0.00	0.00	0.00	0.00	0.00
HT Temporary	0.00	0.00	0.01	0.02	3.48
TOTAL	2453.62	2013.91	4467.53	12874.90	3.47

GLOSSARY

AAD	Advance Against Depreciation
ABC	Aerial bunched cables
ABT	Availability Based Tariff
A&G costs	Administrative and General costs
APCPDCL / CPDCL	Central Power Distribution Company of A.P Limited
APEPDCL / EPDCL	Eastern Power Distribution Company of A.P Limited
APERC	Andhra Pradesh Electricity Regulatory Commission
APGENCO	Generation Corporation of Andhra Pradesh Limited
APGPCL	A.P.Gas Power Corporation Limited
APNPDCL/ NPDCL	Northern Power Distribution Company of A.P Limited
APPCC	AP Power Coordination Committee
APSPDCL / SPDCL	Southern Power Distribution Company of A.P Limited
ARR	Aggregate Revenue Requirement
BSES	Bombay Suburban Electric Supply
BST	Bulk Supply Tariff
CEA	Central Electricity Authority
Central Act	The Electricity Act 2003 (Act 36 of 2003),
CERC	Central Electricity Regulatory Commission
CGS	Central Generating Stations
CIRE	Central Institute for Rural Electrification
COD	Commercial Date of Operation
CoS	Cost of Supply
CWIP	Capital Works-in-Progress
DISCOMs	Distribution Companies
DSM	Demand side management
D-to-D	DISCOM-to-DISCOM
DTR	Distribution Transformer
EHT	Extra High Tension
ERC	Expected revenue from charges
ERCs	Electricity Regulatory Commissions
ERO	Electricity Revenue Office
FCA	Fuel cost adjustment
FoR	Forum of Regulators
FPT	Filing of Proposal for Tariff
FSA	Fuel surcharge adjustment
GAIL	Gas Authority of India Limited
GoAP	Government of Andhra Pradesh
GoI	Government of India
GTCS	General Terms and Conditions of Service
HDPE	High Density Poly Ethelene
HT	High Tension
HVDS	High Voltage Distribution system
IDC	Interest during construction

INDIRAMMA	Integrated Novel Development in Rural Areas and Model Municipal Areas
IPPs	Independent Power Producers
ISI	Indian Standards Institute
KW	Kilo Watt
LV	Low voltage
MU	Million units
NCE	Non-conventional energy
NEDCAP	Non Conventional Energy Development Corporation of Andhra Pradesh
NHAI	National Highways Authority of India
NTS	Nellore Thermal Station
O&M	Operations & Maintenance
OCFA	Original Cost of Fixed Assets
OERC	Orissa Electricity Regulatory Commission
O.P.	Original Petition
PGCIL	Power Grid Corporation of India Limited
PLF	Plant Load Factor
PPAs	Power Purchase Aggrements
PWS Schemes	Protected Water Schemes
RAC	Regulatory Affairs Cell
Reform Act	A.P. Electricity Reform Act 1998
RGGY Schemes	Rajiv Gandhi Grameen Vidyudeekaran Yojana
ROCE	Return on capital employed
RoE	Return on Equity
RPPO	Renewable power purchase obligation
RPVC piping	High Density Poly
Ethelene RR Act	Revenue Requirement
Act RSB	Retail Supply business
RST	Retail Supply Tariff'
RTPP	Rayalaseema Thermal Power Station/plant
SAC	State Advisory Committee
SD	Security Deposit
SERCs	State Electricity Regulatory Commissions
SI	System improvement
SLDC	State Load Despatch Centre
SSLBPH	Srisailam Left Bank Power House
ULDC	Unified Load Despatch Centre
	APERC (Terms and Conditions for Determination of

W&RST

Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005
(Regulation No.4 of 2005)

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