Aggregate Revenue Requirement

FY 2010-11 & FY 2011-12



Dakshinanchal Vidyut Vitaran Nigam Limited AGRA DisCom

MARCH 2011

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ABBREVATIONS

A&G -	Administrative & General Expenses
CERC -	Central Electricity Regulatory Commission
CGS -	Central Generating Station
CPP -	
Cr -	
EREB -	Eastern Region Electricity Board
ESO -	
FD -	Fixed Deposit
FI -	Financial Institutions
FRP -	Financial Restructuring Plan
FY -	Financial Year
GAAP -	Generally Accepted Accounting Principles
GFA -	Gross Fixed Assets
GOI -	Government of India
GOUP -	Government of Uttar Pradesh
GPF -	General Provident Fund
KESCO -	Kanpur Electricity Supply Company Limited
KV -	Kilo Volt
KW -	Kilo Watt
KWh -	Kilo Watt Hour
LF -	Load Factor
LT -	Low Tension
MoP -	Ministry of Power
MU -	Million Units
MW -	Mega Watt
NAPP -	
NHPC -	National Hydro Power Corporation
NPC -	Nuclear Power Corporation
	Noida Power Corporation Limited
NTPC -	National Thermal Power Corporation
PF -	Provident Fund
PFC -	Power Finance Corporation
PNs -	Promissory Notes
PPA -	Power Purchase Agreement
PTW -	Private Tube Wells
R&M -	
	Rajasthan Atomic Power Plant
REA -	
REC -	
SPA -	Special Purpose Advance
T&D -	Transmission & Distribution
UP -	Uttar Pradesh
UPCL -	Uttaranchal Power Corporation Limited
UPER Act -	
UPERC -	Uttar Pradesh Electricity Regulatory Commission
UPJVNL -	Uttar Pradesh Jal Vidyut Nigam Limited
UPPCL -	Uttar Pradesh Power Corporation Limited
UPSEB -	5
UPSIDC -	1 1
WREB -	0 3
DVVNL -	Dakshinanchal Vidyut Vitaran Nigam limited

Executive Summary:

- Dakshinanchal Vidyut Vitaran Nigam limited (hereinafter referred to as the AGRA DisCom), is a Company incorporated under the Companies Act, 1956. Uttar Pradesh Electricity Regulatory Commission in exercise of the power conferred under section 14 of the Electricity Act 2003 granted distribution license for carrying out business of distribution of electricity in the area of supply covering the geographical limits of AGRA DisCom vide licence No 3 order dated 21 January 2010. The licence thus issued shall continue in force for a period of 25 years.
- In this petition licensee is submitting combined application for Aggregate Revenue Requirement for FY2010-11 & FY2011-12. The ARR for FY20010-11 was due to submit on 30 Nov 2009 but due to inordinate delay in submission of previous petition and promulgation of Tariff order FY 2009-10 by Commission on 31 March 2010 , the submission further got delayed. Meanwhile in accordance with the guidelines provided in Tariff Order FY2009-10 read with section 62 of Electricity Act 2003 licensee sought permission from Hon'ble Commission to file MYT petition for 3 years from FY2010-11 onward but Commission did not issued necessary guidelines/regulations for want of certain information . Therefore to cope up with further delay in submission of ARR FY2010-11 & future ARR, licensee sought permission from the Commission to file combined ARR for FY2010-11 & FY2011-12 together before 30 Nov 2010. Commission vide order dated 14th October 2010 allowed simultaneous submission of ARR for FY 2010-11 & FY 2011-12 to regulate the regulatory synchronism. Further petitioner sought time extension as GoUP has not intimated amount of subsidy for various categories of consumer , thereby petitioner was unable to submit a new tariff structure for ensuing years. This petition contains combined ARR for FY2010-11 & FY2011-12 and is submitted before the UP Electricity Regulatory Commission in accordance with the section 62 of Electricity Act2003. Section 64 of Electricity Act2003 mandates that an application for determination of Tariff under section 62 shall be made by a licensee in such a manner and accompanied by such fee, as may be determined by the regulations. In this context the commission in exercise of its power conferred under clause (zd), (ze) and (Zf) of section 181(2) read with Section 61 and 62 of Electricity Act 2003 issued Term & Conditions of Distribution Tariff Regulation 2006. The Regulation applies to all the Distribution Licensees in the State. In the Regulation the Commission has laid out the principles for determination of Aggregate Revenue Requirement (ARR) for (a) Distribution Business and (b) Retail Supply Business of the licensees. The ARR so determined for each of the businesses will form the basis for fixation of wheeling tariff/charges and charges for retail sale of electricity. This ARR has been

prepared in accordance with the Policy directions laid down in the regulation and Tariff orders issued by the Hon'ble Commission.

- The ARR include past performance analysis of tariff filing, estimation of retail sales and revenue assessment at current tariff, Capital expenditure plan for ensuing years.
- The Retail Tariff across the DisComs has been kept same till the allocation of the PPAs among DisComs by GoUP are made, this is in line with the guiding factor provided in Tariff Policy issued by Govt of India.
- The Bulk Supply Tariff for DisComs has been kept same and has been computed based on pooled power purchase expense and total energy sale to DisComs. The Commission in its previous order has approved this methodology as such Petitioner has adopted the same in this Petition.
- The layout of this petition among other thing includes back ground, proposed capital expenditure for FY20010-11 & FY2011-12, status of directive issued by Commission, estimation of retail sales and revenue assessment at current tariff, estimation of Aggregate Revenue Requirement and revenue gap at current tariff with proposal to meet out the revenue gap.
- The objective of the petitioner in this filing has been to reduce or at least contain the expenses to a reasonable level, in spite of inflationary pressure prevailing in the market scenario thereby minimising burden on the consumers to the maximum possible extent. For current year petitioner has endeavoured to limit most of the expenses within the budget approved by the Hon'ble Commission. For ensuing years also the petitioner has taken up the challenge to control most of the operating expenses to reasonable level in order to minimise cost burden to consumers. The petitioner would like to assure the consumers and stakeholders that the intention has been to ensure fair deal to consumers while promoting working of the utility in an efficient, economical and equitable manner.
- The Petitioner in the ensuing years has proposed to undertake major capital improvement project for creating adequate capacity in the distribution network to match the demand growth, creating adequate capacity for reducing over loading of the feeders, transformers & providing electric service to previously un-served area. The petitioner has proposed a capital expenditure of **Rs 781.66 Cr** for FY2010-11 and **Rs 1383.94** Cr for FY2011-12, details of major capital investment plan have been provided in subsequent section with the proposed funding mechanism.
- The petitioner while estimating expenses for current & ensuing year has taken actual expenses incurred in previous years as per its audited /un audited balance sheet to derive the expenses at a reasonable level.

- The petitioner has endeavoured to control the employee expenses to maximum possible extent to offset inflation and keep the expenses to the approved level. However due to mandatory annual increment, 3rd time scale order & instalment of arrear of 6th pay commission, the employees expenses are bound to increase from the level of un-audited balance sheet of FY2009-10, this fact has been explained at the subsequent section. While projecting the expenses for ensuing year petitioner has considered a marginal increase over the estimated amount for the current year mainly due to increase in DA, basic salary and inflationary pressure. Further at the same time employees have been made accountable toward the consumer satisfaction and development works. Targets have been fixed for development work as well as retail business especially revenue realization and employees have been made responsible toward speedy redressal of consumers' problem.
- The petitioner while projecting A&G expenses for ensuing year has proposed a marginal increase in the A&G expenses to off-set inflationary pressure. However in real term it can be termed as reduction in expenses as expenses virtually remained at same level in spite of creation of additional Division & Circle in DisCom.
- The petitioner has projected R&M expenses for current year taking into account actual expenses as per un-audited balance sheet and for ensuing year R&M expenses has been estimated as per methodology adopted by the Commission in its last Tariff Order & as per guidelines laid down in Tariff Regulation. The petitioner has tried to optimize the R&M expenses despite steep rise in input cost. The proactive preventive maintenance initiatives and capital expenditure under various schemes have been proposed for improvement in distribution network which would result in reduction of transformer failure, ensuring improvement in quality of supply and reduction in number of break down.
- The petitioner has estimated sales demand for the ensuing year taking in to account economic and demographic driver such as per capita GDP, population growth & contribution of primary, secondary & tertiary sector of economy to GDP. For large & heavy consumer categories past trend has also been considered in estimation of demand.
- The detailed Aggregate Revenue Requirement and Tariff proposal for Dakshinanchal Vidyut Vitaran Nigam Limited is being presented for consideration and approval before the Hon'ble Commission in the following sections of the petition.

1 Introduction:

1.1 Background of UP Power sector:

Reforms in the power sector of Uttar Pradesh were initiated in the year 1999 with the enactment of Uttar Pradesh Electricity Reforms Act, 1999. Subsequently, Uttar Pradesh Electricity Reforms Transfer Scheme, 2000 was notified vide notification No. 149/P-1/2000-24, Lucknow, dated January 14, 2000. The Transfer Scheme unbundled the erstwhile Uttar Pradesh State Electricity Board (UPSEB) into three different entities, Uttar Pradesh Power Corporation Limited (UPPCL), Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL) and Uttar Pradesh Jal Vidyut Nigam Limited (UPJVNL). UPPCL was assigned the role of procurement, transmission and retail supply of electricity in the state of Uttar Pradesh.

Another Transfer Scheme for transfer of assets and liabilities of Kanpur Electricity Supply Authority (KESA) zone of UPPCL to Kanpur Electricity Supply Company (KESCO) was made effective under the companies Act, 1956 on 15th January 2000.

Further on 10th June 2003 the Electricity Act 2003 was notified, under provisions of section- 131 of EA 2003 and section 23 of Uttar Pradesh Electricity Reforms Act, 1999, UPPCL was further unbundled vide the Uttar Pradesh Transfer of Distribution Undertaking Scheme, 2003 ,notified on August 12, 2003.

The Uttar Pradesh Transfer of Distribution Undertaking Scheme 2003 notified creation of following distribution companies viz.

Dakshinanchal Vidyut Vitaran Nigam Limited	:	(Agra DisCom),
Madhyanchal Vidyut Vitaran Nigam Limited	:	(Lucknow DisCom)
Pashchimanchal Vidyut Vitaran Nigam Limited	:	(Meerut DisCom)
Purvanchal Vidyut Vitaran Nigam Limited	:	(Varanasi DisCom)

The responsibility of Dakshinanchal Vidyut Vitaran Nigam Limited was outlined as distribution and supply of electricity in the geographical areas specified in the scheme.

The GoUP further created a new company in 2006 under the provisions of Companies Act, 1956 by the name of Uttar Pradesh Power Transmission Company Limited (UPPTCL) with an objective of handling the transmission function of State of Uttar Pradesh. With creation of UPPTCL the responsibility of transmission/ wheeling has been vested with UPPTCL and UPPCL, the holding company, left with responsibility of bulk purchases & supplies of electricity.

One important aspect of the structure of the unbundled and newly created organizations is that UPPCL remains the holding company for all the organizations viz. Dakshinanchal Vidyut Vitaran Nigam Limited (DVVNL), Madhyanchal Vidyut Vitaran Nigam Limited (MVVNL), Pashchimanchal Vidyut Vitaran Nigam Limited (PVVNL) and Purvanchal Vidyut Vitaran Nigam Limited (PuVVNL) and KesCo.

On January 21st, 2010 U P Electricity Regulatory Commission in exercise of the power conferred under section 14 of Electricity Act 2003 issued separate Distribution License to Dakshinanchal Vidyut Vitaran Nigam Limited.

1.2 Distribution Tariff Regulations:

UPERC on 6th October 2006 issued Terms & Conditions for determination of Distribution Tariff (Regulation 2006) specifying the principles and procedures of filing for the Annual Revenue Requirement (ARR) and Tariff proposals for the ensuing year. Accordingly, the Petitioner has filed this ARR and Tariff proposal in line with the provisions of the regulation.

In this petition the petitioner is submitting the following as part of the ARR and Tariff filings for FY 2010-11 & FY 2011-12.

- Investment Plan for FY2010-11 and FY2011-12.
- Allocation statement to segregate expenses among retail supply business and distribution business.
- Annual Revenue Requirements for FY2010-11 & FY2011-12.
- ARR and Tariff Proposals ("Wheeling Charges") for the Distribution business of the petitioner.

1.3 Procedural History

1.4 ARR Petition FY 2009-10:

Under section 64 of Electricity Act, 2003, and the provisions of Distribution Tariff Regulations 2006 Dakshinanchal Vidyut Vitaran Nigam Limited (hereinafter referred to as AGRA DisCom) had submitted its ARR & Tariff Petition for FY 200910 on 30th July 2009. The Hon'ble Commission accepted the ARR & Tariff Petition on 10th Nov 2009 and finally issued tariff order for FY2009-10 on 31.03.2010.

1.5 Public Notice of the Petition

The Commission while admitting ARR & Tariff petition FY 2009-10 on 10th Nov 2009 directed the Licensee to publish public notice with salient features of ARR and Tariff in at least two daily news papers (English and Hindi) for two successive days for inviting comments, objections and suggestions by all stakeholder and public at large within 3 days from the issue of admittance order. In compliance to the admittance order the Public Notice dealing the salient features of ARR & Tariff were published in various Hindi and English language daily newspapers as detailed below:-

Hindustan on 13-11-2009

Hindustan times on 14-11-2009

1.6 Public Hearing:

The Commission invited comments from consumers and all stake holders on ARR & Tariff proposals submitted by the Licensee and to provide an opportunity for comments, objection and suggestion to all section of the population. Public hearings were also conducted at various places in the area of Distribution Licensees by the Hon'ble Commission.

Details of places of public hearing and date of hearing are as under:-

Jhansi	23-11-2009
Allahabad	26-11-2009
Noida & Greater Noida	19-12-2009
Saharanpur	20-12-2009
Lucknow	22-12-2009
Saharanpur	20-12-2009

1.7 Tariff Order FY 2009-10:

Consequent to acceptance of Annual Revenue Requirement and Tariff application, the Hon'ble Commission had issued Tariff Order for FY 2009-10 on 31st, March 2010

and directed the licensee to publish the salient features of ARR with the implementation of revised Tariff with effect from 15th April 2010 in the area of Distribution Companies of State of UP. As such a wide publicity through following news papers were made in the larger interest of public and other stake holders.

Dainik Jagran-(Hindi)	Lucknow ,Bareilly and Gorakhpur
Aaj-(Hindi)	Varanasi
Amar Ujala-(Hindi)	Meerut, Agra and Jhansi
In Dino-(Urdu)	Lucknow
Hindustan Times	Lucknow ,Delhi
Hindustan	Lucknow
Times of India	Lucknow
Swatantra Bharat	Kanpur
Dainik Jagran (Hindi)	Kanpur
Amar Ujala (Hindi)	Moradabad
Rastriya Sahara (Hindi)	Lucknow

1.8 ARR FY 2010-11 & FY 2011-12:

Dakshinanchal Vidyut Vitaran Nigam Ltd. scheduled to submit their ARR and Tariff Petition for the ensuing year (FY 2010-11) by 30th November 2009 before the Regulatory Commission under section 62 & 64 of Electricity Act, 2003 and the Regulations framed there under UPERC Terms and Conditions for Determination of Distribution Tariff, Regulations-2006.

The Licensee submitted a petition before the Hon'ble UPERC seeking time extension up to 31st March 2010, for submission of the ARR & Tariff petition as the ARR & Tariff petition of FY 2009-10 were under consideration before Hon'ble Commission for approval and as such in the absence of approved Tariff & other data for FY 2009-10, expenses and revenue gap as stipulated in regulations may not be truly worked out for FY2010-11. The Hon'ble Commission vide their order dated 16th February 2010 allowed time extension for filing ARR & Tariff Petition up to 31st March, 2010.

The Commission issued Tariff Order for FY 2009-10 on 31st March 2010, with the directives for implementation of retail Tariff w.e.f. 15th April 2010 in the area of distribution of energy of Dakshinanchal Vidyut Vitaran Nigam Ltd.

Licensee implemented the new rate schedule and directed different billing agencies for generating the bills as per approved rate schedule for FY 2009-10. To ascertain the correct revenue assessment as per approved Tariff and to work out the true value of estimated gap for designing the new Tariff for FY 2010-11.Licensee sought further time extension up to 31st July 2010.The Hon'ble Commission vide order dated 30.04.2010 allowed requested time extension.

Further in accordance with the Electricity Act 2003 and guide lines provided under Multi Year Tariff Framework of section-10.6 in Tariff Order FY 2009-10, licensee sought permission for filling MYT petition for 2010-11 to FY 2012-13.Though Hon'ble Commission has already issued MYT regulation as well as Tariff Order for Generation Licensees but for distribution licensees MYT regulation is still awaited.

As per section- 2.1 of Tariff Regulations 2006, the ARR & Tariff petition for FY 2011-12 was scheduled to be filed before the Commission on 30th Nov.2010.As such Licensee submitted a petition before the Hon'ble Commission for simultaneous submission of ARR & Tariff Petition for FY2010-11 & FY 2011-12 in order to maintain regulatory time frame mechanism and requested for time extension up to 30th Nov 2010.

The Hon'ble Commission admitted the petition filed by the licensee and granted time extension up to 30th November 2010 for filing ARR & Tariff Petition for FY 2010-11 and also allowed the simultaneous submission of ARR & Tariff Petition FY 2010-11 & FY 2011-12.

Petitioner further sought time extension as GoUP has not intimated the amount of subsidy for various subsidized categories of consumers; as such the petitioner was not in a position to design a new Tariff structure for various categories of consumers.

The structure of this ARR & Tariff Petition FY 2010-11 & FY 2011-12 are as under:

Section 1. Introduction: This contains a brief background and rationale used for the submission; major issues that describe the structure of the submission.

Section 2. Performance Analysis of ARR FY2009-10Filing: This includes:

- a) A review of FY 2009-10 UPERC Tariff Order;
- b) Comparison of approved ,estimated cost and actual figures to-date

- c) An action plan undertaken by AGRA DisCom for various efficiency improvement measures.
- d) Investments plan details.
- e) Compliance of Commission's directives.
- Section 3. Load Forecast and Revenue Assessment: This includes actual sales for FY 10 estimates for FY 11 and forecasts for FY 12, both on a consolidated basis as well as for AGRA DisCom. This also includes actual billing determinants for base year FY 10, estimated for FY 11 and projected FY 12 by consumer category. Forecast revenues for FY 11 & FY 12 under existing tariff have also been provided.
- Section 4. ARR for Wheeling & Retail supply Business FY 2010-11 &FY2011-12: This includes ARR forecast for FY 11 & FY 12, both on a consolidated basis and for AGRA DisCom. The consolidated ARR forecast provides the extent that the uniform state-wide tariffs need to increase on an average basis to meet Cost of service. The ARR also includes the revenue gap figures for FY11 & FY 12.
- *Section 5.* **Bulk Supply Tariff.** In this section Bulk Supply Tariff is derived for Distribution licensees.
- Section 6. Tariff Design: Licensee is not proposing any hike in present tariff. In some categories only minor changes in general terms and conditions of time of day billing structure has been proposed and a new category HV-5 for "Arc/induction furnace, rolling /rerolling mills and mini steel plants" has been created by separating these consumers from HV-2.

Annexure (A) Power Procurement Plan

Annexure (B) Rate Schedule

2 Performance Analysis of ARR FY2009-10:

As previously mentioned, this section contains the following:

a) Review of UPERC Tariff Order FY 2009-10.

b) Comparison of Approved items & Estimated/Actual updates

c) Investments plan details.

d) Compliance of Commission's directives.

In accordance with section 62 - 64 of Electricity Act, 2003, and enabling provisions of Distribution Tariff Regulations Dakshinanchal Vidyut Vitaran Nigam Limited (*hereinafter referred to as AGRA DisCom*) submitted their ARR & Tariff Petition for FY 2009-10 on 30th July 2009. This submission was in accordance with the provision provided in Terms & Conditions for determination of Distribution Tariff Regulation 2006.UPERC in exercise of power vested under section 61,62,64 & 86 of Electricity Act 2003 issued Tariff Order for FY 2009-10 on 31st March 2010 with an average Tariff hike of about 13%. In this Order Commission retained the rates of the life line category and Private Tube well category of consumers at existing level.

In pursuit of achieving the mandate of 100% metering of un-metered consumers, Commission has increased the rates of un-metered category in non-domestic rural by about 10% where as tariffs for metered category has been retained at existing levels.

Since any increase in maximum demand over and above the contracted demand is taken care of by penal provision, Commission in this Order has removed the additional surcharge on the use of Air Conditioners.

Regarding performance improvement, it may be noted that Dakshinanchal Vidyut Vitaran Nigam Ltd, had registered notable improvement in almost all performance parameters, although not fully meeting the expectations of the Commission. It may be acknowledged that the pace of improvement has slowed down which could be attributed to the continuing load growth and inadequate generating capacity to meet this growth. The situation shall improve in FY 2011 with additional Hydro generation capacity of 218 MW, thermal generation capacity of 800 MW & in FY 2012 further

additional hydro capacity of 800MW, thermal 1600 MW. In addition to this upcoming generation some small cogeneration projects(about 900MW) are also connected to Licensee's distribution system(at 11kV & 33 kV)and further projects of around 223 MW capacity are under construction and expected to be commissioned during FY 11 & FY 12.

2.1 Comparison of Approved & Estimated items:

The aim of this section is to provide a comparison of pertinent items contained in the Tariff Order with actual and estimated data.

2.2 Sales Forecast – Tariff Order & Actual FY 2009-10:

Table 2-1 provides a summary of Sales figure for AGRA DisCom. In order to depict the trend of approved sale of Tariff Order FY 10 & actual FY 10 figures are given as under:-

Consumer Category	Tariff Order FY 2009-10	Actual FY 2009-10	% Difference
LMV-1: Domestic Light, Fan & Power	3372	3,056	9%
LMV-2: Non Domestic Light, Fan & Power	629	611	3%
LMV-3: Public Lamps	84	76	9%
LMV-4: Insitutions	310	306	1%
LMV-5: Private Tube Wells	1515	1,616	-7%
LMV-6: Small and Medium Power	621	552	11%
LMV-7: Public Water Works	182	187	-3%
LMV-8: S T W and Pumped Canals	377	433	-15%
LMV-9: Temporary Supply	13	7	50%
LMV-10: Deptt. Emp. And Pensioners	128	90	30%
HV-1: Non Industrial Bulk Loads	185	190	-3%
HV-2: Large and Heavy Power	1579	1,439	9%
HV-3: Railway Traction	198	184	7%
HV-4: Lift Irrigation Works	83	95	-14%
SUB TOTAL	9,276	8,840	5%
Bulk & Extra State	2774	2,722	2%
GRAND TOTAL	12,049	11,562	4%

Table 2-1: Tariff Order and Actual Energy Sale FY 2010: AGRA DisCom (MU)

Table 2-2 provides the same information on a CONSOLIDATED basis as with the

AGRA DisCom specific data provided as above.

Dakshinanchal Vidyut Vitaran Nigam Ltd. AGRA DisCom

Consumer Category	Tariff Order FY 2009-10	Actual FY 2009-10	% Difference
LMV-1: Domestic Light, Fan & Power	15084.4	14,878	1%
LMV-2: Non Domestic Light, Fan & Power	2818.4	2,901	-3%
LMV-3: Public Lamps	523	530	-1%
LMV-4: Insitutions	1350	1,270	6%
LMV-5: Private Tube Wells	4476.4	4,903	-10%
LMV-6: Small and Medium Power	2171	2,008	8%
LMV-7: Public Water Works	820	920	-12%
LMV-8: S T W and Pumped Canals	1586	1,733	-9%
LMV-9: Temporary Supply	43	59	-38%
LMV-10: Deptt. Emp. & Pensioners	379.4	329	13%
HV-1: Non Industrial Bulk Loads	1194	1,322	-11%
HV-2: Large and Heavy Power	7819	6,777	13%
HV-3: Railway Traction	626	647	-3%
HV-4: Lift Irrigation Works	610	681	-12%
SUBTOTAL	39,501	38,958	1%
Bulk & Extra State	3161	3,107	2%
GRAND TOTAL	42,661	42,065	1%

Table 2-2:Tariff Order and Actual Energy Sale FY 2010:Consolidated DisCom (MU)

Table 2-3 summarizes the results of hour of supply to different category consumers. In this table the average supply hours are from feeders supplying various types of communities/area i.e.Tehsil, District, Commissionaire, Mahanagar, Major cities and Bundelkhand.

Area of Supply		2009	2010	2011	
Area of S	ирріу	Hours of Service			
All	Rural	10:22	9:13	12:13	
Tehsil	Urban	10:22	9:13	12:00	
District	Urban	15:20	18:22	18:00	
Commissionary	Urban	18:07	19:25	20:00	
Bundelkhand	Urban	15:05	17:56	18:00	
Maha Nagar	Urban	20:11	20:42	22:00	
Industrial	Urban	20:49	22:14	24.00	

Table 2-3: Supply Hours Summary: FY 2009 - FY 2011

Local Interruptions not included Source: Flash Report Dec 2010

In FY 2009-10 Tariff petitions, a supply hour function was included in the load forecasting methodology that derived energy consumption as a function of supply hours. This function was, to some extent, based on an estimated relationship between supply hours and consumption for rural un-metered customers. For FY11 &

FY 12, this relationship has been refined based on the rostering schedule applicable to various rural feeders.

2.3 FY 10 Approved and Actual FY 10 Expense items:

Tables 2-4 and 2-5 provide a comparative summary of expense items of Tariff Order FY 10 and Actual FY 10 for AGRA DisCom and Consolidated DisCom respectively.

Expense Items (Rs.Cr)	FY 2009-10 Tariff Order	FY 2009-10 Actual	Difference
Power Purchase expenses	3949	4475	13%
Transmission charges	153	197	29%
Employee cost	209	213	2%
A&G expenses	37	40	7%
R&M expenses	109	167	54%
Interest charges	154	158	2%
Depriciation	203	196	-3%
Provision for Bad and Doubtful Debts	0	32	
OTS Waivers	20		
Gross Expenditure	4834	5479	13%
Expenses capitalisation			
Employee cost capitalised	31	82.13	165%
Interest capitalised	18	0	-100%
A&G expenses capitalised	5	11	130%
Net expenditure	4780	5385	13%

 Table 2-4: Approved and Actual Expenses FY 10: AGRA DisCom

Table 2-5: Approved and Actual Expenses FY 10: Consolidated DisCom

Expense Items (Rs.Cr)	FY 2009-10 Tariff Order	FY 2009-10 Actual	Difference
Power Purchase expenses	14282	16094	13%
Transmission charges	641	710	11%
Employee cost	1119	1149	3%
A&G expenses	130	150	16%
R&M expenses	495	525	6%
Interest charges	603	1120	86%
Depriciation	901	468	-48%
Provision for Bad and Doubtful Debts	0	90	
OTS Waivers	55		
Gross Expenditure	18226	20305	11%
Expenses capitalisation			
Employee cost capitalised	167	239	43%
Interest capitalised	73	47	-36%
A&G expenses capitalised	19	32	66%
Net expenditure	17967	19988	11%

2.4 Distribution losses:

In FY 2009-10 Tariff Order Commission has noted that the performance of Meerut DisCom and AGRA DisCom is better than that of the other two DisComs on comparison of the approved distribution losses for FY 2008-09.Further, the Commission feels there is still room for further reduction in distribution losses. Considering this UPERC approved the overall Distribution loss of 21.27 % in FY 2009-10.

Licensee with all out efforts could not achieve targets set by the Commission. For FY 2010-11 & FY 2011-2012 petitioner on consolidated basis has set a target of reducing loss level by about 2% in each year from actual loss of FY 2009-10.

Distribution Loss	FY 2009-10	FY 2009-10	FY 2009-10	FY 2010-11	FY 2011-12
(%)	Petition	Approved	Actual	Projected	Estimated
AGRA DisCom	24.70%	24.00%	31.74%	30.80%	28.00%
LUCKNOW DisCom	20.02%	18.00%	22.64%	22.00%	21.00%
MEERUT DisCom	24.31%	24.00%	27.27%	24.50%	23.24%
VARANASI DisCom	24.49%	22.50%	24.44%	23.66%	22.00%
Sub-Total	22.32%	21.27%	25.37%	23.89%	22.37%

Table 2-6: Distribution loss: FY 2010-FY 2011-12.

2.5 Efficiency Improvement Activities being undertaken:-

As per the directives and guidelines specified by the Hon'ble Commission towards efficiency improvement, the Licensee has made concerted efforts to improve its operations and is committed to implement a number of technical and commercial measures in this direction in FY2010-11 & FY2011-12. The objective of efficiency improvement programs would be to ensure a reliable Distribution system and enhance the quality of supply to consumer as well as to reduce technical & commercial losses of the petitioner. The initiatives undertaken are:

2.5.1 System Improvement Initiative:

The initiatives undertaken by the petitioner for system improvement & collection efficiency improvement involve following activities:

2.5.2 Enhancement of capacity of existing 33kV substation:

At some grid substations ,existing Power transformesr are of lesser capacity and loaded beyond their rating .Hence it is required to augment these Power Transformers so that loading can be reduced. Augmentation will help in:

- **a.** Reliability improvement.
- **b.** Prevention of frequent failures.
- c. Reduction of overloading in existing system.
- **d.** Reduction of technical losses.
- **e.** Down time reduction.
- **f.** Load growth.

2.5.3 Construction of new 33/11 kV s/s:

In order to meet bulk load requirement & continuous increase in load demand in particular area new substation are commissioned. The voltage is tapped at 33kV level and is step down to 11kV with the use of power Transformer. From Power Transformer numbers of 11kv feeders are taken depending upon the capacity of the transformer. On Commissioning of new 33kV substation at suitable location, the length of the 11kV feeder is reduced and the network is optimally loaded.

2.5.4 Addition of New Transformer:

At those grid substations where existing Power Transformer are loaded beyond their capacity and these transformer cannot be upgraded to higher capacity, hence it is required to install new power transformer to share the load and relieve the loaded Transformer. Addition of new transformer at various grid substation will reduce over loading at the substation & consequently improve the system reliability.

2.5.5 Other Initiatives:

- **a.** Capacity enhancement of Distribution substation and strengthening the distribution system to be compatible to load growth.
- **b.** Distribution Automation: It is envisaged that 33kVand 11kV feeders shall be automated through distribution SCADA system in phases to monitor automatically the operation of feeders for over loading of feeders, tripping etc.
- c. Replacement of old conductors.
- d. Replacement of damaged poles.

2.5.6 Commercial Process improvement:

a. Appointment of Input Based Distribution Franchisee: In an endeavor to improve operational efficiency of the distribution system and quality of service to its consumers, DVVNL sought to bring in management expertise through public-private participation, in distribution of electricity. Based on this approach DVVNL decided to appoint an Input Based Distribution Franchisee through a transparent bidding process for urban division of district Agra. Petitioner's objectives of appointing a distribution franchisee, inter alia, are: I. to minimize Aggregate Distribution and Commercial losses II. To bring improvement in Metering, Billing and Revenue Collection III. To minimize Current Assets on account of arrears IV. To enhance customer satisfaction level by improving quality of service The Electricity Act has opened new avenues for bringing in private participation in the distribution sector. The 7th proviso to Section 14 of the Electricity Act, 2003 states that: "...in a case where a distribution licensee proposes to undertake distribution of electricity for a specified area within his area of supply through another person, that person shall not be required to obtain any separate license from the concerned State Commission and such distribution licensee shall be responsible for distribution of electricity in his area of supply" Accordingly, a person who undertakes the distribution of electricity for a specified area on behalf of the Distribution Licensee will not be required to obtain separate license from the concerned State Electricity Regulatory Commission. After a transparent bidding process, M/s Torrent Power Ltd was appointed as Input Based Distribution Franchisee for urban district of Agra. Distribution Franchisee shall provide for capital expenditure to improve efficiencies, augment and upgrade infrastructure, reduction in T&D Losses and improvement in quality of supply.

- **b. Collection based Franchisee**: Collection efficiency is one of the major areas of concern for petitioner as it impacts the amount of receivables against supply of power. Therefore to increase the revenue collection from rural areas, collection based franchise have been appointed. The performance of these initiatives has been found satisfactory for rural areas.
- **c.** For proper accounting of energy & reducing chances of theft, double metering system is being implemented & thus yielding encouraging results.

- **d.** For speedy redressal of consumer grievances, call centre has been established at Lucknow, and Control rooms have been set up in all major cities& DisCom HQ.
- **e.** In all theft prone areas overhead conductor are being replaced with ABC (Aerial Bunched Conductor) .This helps in reduction of line losses and break down which results in better quality of supply & consumer satisfaction .This ultimately enhance revenue of the petitioner.
- **f.** Provision of periodic checking through Accuchecks of all static and trivector meters installed in high value consumers premises.
- **g.** Special drive to check the cases of theft/unauthorized use of electricity/checking of excess load being carried out in different districts by sending teams of officers from DisCom headquarter.
- **h.** Special camps are organized to collect revenue from the consumers to solve their problems on the spot.
- **i.** Regularization of illegal connections and ledgerisation of unledgerised connections is being monitored to arrest revenue loss.
- **j.** Special team of headquarter engineers and vigilance teams comprising of Police personnel have been formed in each zone. With these teams surprise raids are conducted for direct theft of energy/Katiya connections.
- **k.** NA/NR/IDF/ADF meters are being monitored and defective meters are being changed. Timely efforts are being made to install meters on all distribution transformers.
- **I.** Works of hand held billing, disconnection and reconnection works are being done with the help of external agencies. The system coverage has improved with the implementation of hand held metering /billing devices.
- **m.** Further petitioner is planning to use various Information Technology (IT) initiatives to drive operational efficiency improvement. Web based billing /payment is one of the initiatives. In this facility consumer can log on the designated web site of the service provider and by punching a key word provided in the bill consumer can view their complete bill and payment can be made accordingly. This web based payment facility initially would be available

to selected city consumers and later on will be extended to all consumers of the licensee.

- **n.** In the urban areas work of shifting of over head line by laying underground cable are being carried out. This will not only improve the operational efficiency but also reduce the chances of theft.
- o. Capital Expenditure Plan:

Large investments have been planned in order to reduce T&D losses, maintaining reliable supply and to achieve rural electrification targets. In past the desired results could not be obtained due to severe fund constraints. To achieve the desired objective an aggressive investment plan has been envisaged. While in most of the schemes the objective is to strengthen/up-grade the Distribution system, some scheme will also help in reducing AT&C losses, the full benefit of the capital expenditure incurred in respect to the reduction of AT&C losses will however accrue over a period of next few years. The proposed expenditure plan has been aimed with following objective:

- $\circ\,$ Strengthening and refurbishment of system to improve the reliability of supply.
- Undertaking system improvement to meet the distribution system demand growth.
- For reducing the distribution losses.
- Carry out automation and other improvement work to enhance customer service.
- $\circ~$ Undertake investment to cater social need such as electrification in left over area of villages.
- Carry out Customer deposit work.

2.5.7 Capital Expenditure:

The petitioner has proposed capital expenditure for laying down the basic infrastructure, system augmentation, improvement in metering and billing system. Therefore the capital expenditure schemes are divided into two categories namely, Government Schemes and Schemes funded from financial institutions. The State Government is primarily providing funds for implementing schemes of rural electrification. The various schemes under which the capital expenditure programs are envisaged are detailed below:

a. Ambedkar Gram Sabha Vikas Yojana:

This scheme has been envisaged by the State Government with a view to achieve 100% rural electrification in the State. Under this scheme some majras (hamlets) of each Gram- Sabha are selected each year for electrification. GoUP provide equity for execution of these projects. For AGRA DisCom the equity distribution of Rs 15.32 Crs in FY2010-11 & Rs 19.15 Cr for FY2011-12 has been proposed under this scheme.

b. Rural Electrification Programme – RGGVY

Rural Electrification Program- RGGVY contemplates electrification of villages and strengthening the existing network in the rural areas to achieve universal access to electricity for all households. Under this scheme following work is performed:

- Electrification of un-electrified hamlets
- Strengthening of Distribution system under RGGVY for providing electricity to all BPL household
- o Electrification of villages electrified as per CEA
- Conversion of villages/hamlets electrified from LT mains to HVDS
- Providing electricity to all rural households including free connection to BPL households
- Strengthening of Rural electricity Distribution backbone
- Electrification of remote villages (Stand alone)

Under the RGGVY programme the central government provides a grant of 90% of the project cost for each scheme of village electrification and the balance 10% of the fund is provided by the State Government. However, the GoUP provides entire fund required for schemes under the RGGVY programme in the form of equity to the DisCom.

c. Energisation of Private Tube Wells (PTW).

To cope up with the growing demand of agriculture in the State, electrification of private tube wells has always been of much importance. The GoUP provide support for this scheme. Under this scheme GoUP allot target for energisation of PTW & accordingly allocate fund for this purpose.

d. R-APDRP:

Ministry of Power, Govt. of India, has launched the Restructured Accelerated Power Development and Reforms Programme (R-APDRP) in the XI Five year Plan. Power Finance Corporation Limited (PFC) has been designated by GoI as the Nodal Agency for the programme. The programme spans from data acquisition at distribution level till monitoring of results of steps taken to provide an IT backbone and strengthening of the Electricity Distribution system across the Country under the programme. The objective of the programme is reduction of AT&C losses to the extent of 15% in project areas.

The project under the scheme shall be taken up in two parts. Part-A shall include the project for establishment of base line data and IT application for energy accounting /auditing and IT based consumer service centre. Part-B shall include regular distribution strengthening projects. The activities covered under each part are as follows:

Part -**A** of the scheme essentially covers the application of information technology in distribution utilities across the country. The scheme shall involve implementation of IT modules for data acquisition, new connections/disconnection, energy accounting & audit, network analysis management, Maintenance management, Asset management, MIS, metering, billing, collection etc. The programme also encompasses implementation of SCADA/DMS, GIS based Consumer Indexing & Asset mapping etc. This entire exercise is being aimed to establish Base line Data collection system for the distribution utilities through which they are able to capture AT&C losses in a precise manner without manual intervention and also to plan & implement corrective measures in Part B

Part-B of the scheme covers system strengthening, improvement and augmentation of distribution system. This shall involve:-

- o Identification of high loss areas
- o Preparation of investment plans for identified areas
- Implementation of plan
- Monitoring of Losses
- e. Other Schemes:

A large part of the distribution network is very old and needs major overhauling or replacement. Petitioner has identified some major assets that are in dire need of replacement. Major items covered under the requirement of replacement are poles, overhead conductors, wires, and switchgears. Apart from replacement of the old and dilapidated assets there are ongoing requirement of network and infrastructure augmentation to cater load growth occurring due to regular increase in load in existing set-up as well as due to largescale electrification of rural areas. Also, there is a significant requirement of improving the systems and processes of the distribution business of the petitioner to achieve better efficiency of operations, e.g. billing accuracy and procedure, material and financial management etc. Therefore the petitioner has also planned to invest significantly in IT systems for achieving such objectives.

f. Replacement and Strengthening of worn-out poles and conductors:

In the distribution area large scale replacement of worn out poles and conductors are urgently needed. Under this worn out conductors and damaged poles have been planned to be replaced. This is important for reducing losses and in reduction of occurrence of accidents. DisCom wise detail is provided in following table:

		Agra		Lucknow		Mee	erut	Varanasi		
Detail	Qty	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12	
		Physical								
Replacement of Damged Poles	No	14000	18000	7980	8300	16437	23660	30000	25000	
Replacement of old conductor	Km	2656	3300	1624	1750	5348	8022	5000	5000	

 Table 2-7: Replacement Plan (Poles & Conductor)

g. Replacement of Switchgears

The switchgears installed at most of the 33/11kV substations are aged old and are prone to frequent failure and need replacement. Therefore petitioner in the capital expenditure plan has proposed to replace the old switchgears, which have lived beyond their economic life and need replacement. These replacements are necessary to ensure safety and proper operation of protection systems. In the FY2010-11 it has been planned to replace about 20% of the switchgear in the distribution system of the State. Thereafter, on a continual basis the petitioner plans to replace all the old switchgears of systems in a phased manner. For the FY2010-11 & FY2011-12 DisCom wise detail of plan has been provided below:

		Agra		Lucknow		Meerut		Varanasi	
Detail	Qty	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12
		Physical							
Replacement of 11kV switchgear	No	250	175	381	400	722	1100	400	300

Table 2-8: Replacement Plan (Old Switchgears)

h. Augmentation of Distribution Network

For any distribution system it is important to augment the network on a continual basis to cater the load growth and achieving optimal operating efficiency of the distribution equipment. With the increasing demand of power in particular area and to balance the load 33kV sub-stations are commissioned. On commissioning new 33kV substation at suitable location the length of 11 kV feeders are reduced and network loading is optimized.

At some 33kV substation existing Power Transformer are of lesser capacity and are loaded beyond their rated capacity. In such a situation to cope up with load growth it is required to augment existing Transformer so that loading of transformer is reduced and extra demand of power can be met with lesser investment. Augmentation of existing power Transformer at various 33kV sub-station will reduce the over loading ,frequent breakdown, load shedding and improve reliability and provide redundancy in existing substation for future load growth in the area.

In some substation where existing Power Transformer are loaded beyond their rated capacities and these transformer cannot be upgraded to a higher capacity ,in such a situation it is required to installed new Power Transformer to share the load & relieve the existing over loaded Transformer. Petitioner has planned for commissioning of new 33kV substation & augmentation of existing substation as per detail given below:

		Agra			now	Mee	erut	Varanasi		
Detail	Qty	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12	FY2010-11	FY2011-12	
		Physical								
Construction of new 33/11 Kv S/S	No	80	60	13	14	173	125	40	40	
Capacity Enhancement of 33/11 Kv S/S	No	63	85	81	90	143	190	75	70	
Construction of 33 Kv Line	Km	103	220	53	55	1331	1550	130	150	
Bifurcation& strengthening of 33 Kv Lines	Km	91	260	343	350		870			

Table 2-9: Augmentation of Distribution network.

i. Bifurcation of Industrial Feeders:

At present most of the industrial consumers and consumers of other categories are connected to the same feeder. To ensure uninterrupted supply to consumers and better energy auditing, the petitioner has planned to segregate the industrial consumer feeders & PTW consumers from other category consumers.

j. Metering of Consumers:

Large numbers of meters are required for providing new connections as well as for replacement of defective meters for effective energy accounting .At present large section of the consumers are not correctly metered due to defective metering .This need immediate replacement. Further rural consumers have largely been un-metered and even amongst urban consumers there are several defective meters. Presently the Petitioner is releasing all the new connections with meter. In ensuing year (FY 2011-12) there is a plan to install about 2.55 lakh new meters on Consolidated DisCom basis.

k. Double metering:

Petitioner is planning to install double metering at the premises of consumer having load more than 10kVA .This will reduce the probability of tampering of metering system by the consumer which was a frequent phenomenon previously. AGRA DisCom has planned to install 4000 nos. double meter in FY2011-12.This will result in an investment of Rs 5.50 Cr.

I. Installation of Aerial Bunched Conductor:

Unauthorized consumption of electricity is the most important area of concern for the petitioner. The major component of losses in distribution is commercial losses, which is primarily due to theft. In order to reduce the same the existing over head lines are envisaged to be replaced by Aerial Bunched Conductors (ABC) which is less prone to theft. DisComs on consolidated basis have planned an investment of Rs. 189.18 Cr & Rs 351.82 Cr for FY 2010-11, FY2011-12 respectively by way of equity from Go UP and loan from financial institution. Further this scheme has been planned to continue in future also for further increasing the reach of ABC to reduce theft

m. Distribution Scheme:

Strengthening of HV/LV Distribution network with the following criteria:

- Reliability Improvement.
- Prevention of frequent failure
- Continuous load growth
- Reducing overloading of existing system
- o Reduction of technical losses
- Reducing load shedding
- Reducing down time
- Reduction of theft

n. Addition of New Transformer:

At some location the existing distribution transformer are over loaded to their capacities and these transformer cannot be upgraded to higher capacity. Hence it is required to install new Distribution Transformer to share the load of the existing Transformer and relieve them from over loading. New transformer are also required as additional transformer in existing substation where existing transformer are loaded beyond 80% to cater load growth and avoid failure of Transformer. Hence DisComs have planned to invest Rs 69.37 Cr in FY2010-11 & Rs 98.05 Cr in FY2011-12 on consolidated basis.

o. Revamping of 11kV substation:

A large number of 11kV substation and outdoor pole mounted substation are presently not in a sound condition. For indoor substation repairing of floor, defective gate and plastering etc is required and in some cases it is required to raise the floor level to prevent inundation.

The work to be taken up for outdoor substation are primarily providing fencing for existing substation, repairing of Transformer plinths, Repairing of transformer, leveling painting etc.

p. LT Works:

At some places of licensees existing LT system is aged old & it is required to revamp the LT system at these places. This will help in smooth functioning of the equipment. LT work includes revamping and augmentation of LT feeders, cables, Panels etc. Majority of these are beyond repair. Hence provision has been made in investment plan for revamping & augmentation of the LT network.

q. Capacitors:

In FY2010-11 petitioner has been implementing capacitor addition/Repairing program. The system power factor is influenced by the power factor of the consumer load. The petitioner also pays reactive energy charges in addition to active energy charges which burdens the ARR. Thus to improve power factor of the system and reduce reactive energy drawl, it is proposed to install capacitors at various distribution substation. Capacitor is the equipment which supplies reactive energy locally and improve power factor of the system. Further installation of capacitors facilitates in improving voltage and thereby improving quality of power supply to consumers.

r. Consumer Deposit Work:

The quantum of funds towards the deposit work to be carried is dependent on the request of the consumers. Such requests of execution of deposit work are expected from various Government Department and privates entities.

s. RE works under RGGVY Program:

RE work under RGGVY programme contemplates creation of rural infrastructure, electrification of rural household and hamlets. The scheme is to be implemented through funds from GoUP as equity. The scheme provides for free of cost connection to all rural households living below poverty line, for which GOI will provide grant. Objective of this program are as under:-

- To extend supply to all villages and hamlets.
- Intensive electrification of already electrified areas.

The progress under this scheme up to 31st Dec 2010 is tabulated as under:

	om			Village Electrification					B.P.L. con relea			v S/s ruction	S/s Augmer		Finar Prog (Rs.	ress		al No. illages		
SI. No.	Name of Distt./Discom	Scheme Code No.	No. of villages As per revised sanctione by REC	No. of villages freezed by Discom.	VEI created during 05-10	VEI created during 10-11	Total VEI created during 05-10 (6+7)	%age VEI created w.r.t. Target (8/5*100)	Gram Pradhan Cert. obtained	Target	Progress	Target as reported by Discom	W ork complete	Target	Work complete	Funds available	Prog. Expend	Inspected by Third Party	Energised	Handedover
1	2	3	4	5	6	7	8	9	10 DVVNL	11	12	13	14	15	16	17	18	19	20	21
1	Aligarh	790035	320	334	334	0	334	100		4gra 6230	6624	5	5	11	11	42	43	334	334	334
_	Hathras	790041	147	115	115	0		100	115	1794	2216	2	2	0	0	12	12	115	115	115
3	Mathura	790039	29	29	29	0	29	100	29	526	707	1	1	3	3	4	4	29	29	29
4	Agra	790034	141	139	139	0	139	100	139	3326	4145	1	1	4	4	16	16	139	139	139
5	Farrukhabad	790048	513	323	323	0	323	100	323	8638	8638	2	2	6	6	33	33	323	323	323
6	Kannauj	790038	387	244	244	0	244	100	244	3344	5424	2	2	0	0	35	28	244	244	244
7	Etawah	790043	216	207	207	0	207	100	207	11855	6002	2	2	4	4	12	13	207	207	207
8	Auraya	790042	305	292	292	0	292	100	292	14458	11376	2	2	3	3	38	38	292	292	292
9	Firozabad	790045	324	269	269	0	269	100	269	6539	6933	5	5	5	5	31	31	254	269	269
10	Mainpuri	790044	310	279	279	0	279	100	279	16715	12340	3	3	0	0	35	34	244	279	279
11	Etah	790040	751	741	741	0	741	100	741	21373	12125	3	3	15	15	54	53	600	741	741
12	Kanpur Ngr.	790037	156	156	156	0		100	156	1352	3554	2	2	0	0	17	43	152	156	156
13	Kanpur Dehat	790036	319	334	334	0	334	100		12781	10256	3	3	0	0	29		326	334	334
14	Jhansi	790046	188	185	185	0		100	185	1554	3925	1	1	2	2	21	20	185	185	185
15	Lalitpur	790047	275	270	270	0		100		7346	7388	3	3	1	1	35	34	252	270	270
16	Jalaun	790049	111	110	110	0		100	-	835	2035	1	1	4	4	16	16	110	110	110
	Hamirpur	790050	165	147	147	0		100	147	1407	2293	1	1	3	3	22	19	137	147	147
18	Mahoba	790051	193	193	193	0		100	193	2920	2920	2	2	2	2	25	24	188	193	193
19	Banda	790052	150	144	144	0		100	144	3078	3078	2		0	0		14	109	144	144
20	Chitrakoot	790053	238	217	217	0	217	100	217	6128	6016	3	3	5	5	33	31	186	217	217
	Total		5238	4728	4728	0	4728	100	4728	132199	117995	46	46	68	68	528	507	4426	4728	4728

 Table 2-10: Status of Rajiv Gandhi Gramin Vidhutikaran Yojna:

2.6 Compliance of UPERC Directives:

The Commission had issued a number of directives to the Utilities in Tariff order FY 2009-10 with the objective of attaining operational efficiency and streamlining the flow of information, which would be beneficial for the sector both in short term and long term.

The Licensee is submitting the compliances in the following Table: 2-11

S. No.	Ref.	Description of Directive for	Compliance of the
		DISCOM	Directives
1	1.4.2.5	Commission directs UPPCL and the four DISCOMS to take appropriate measures with regards to metering facilities in consumer's premises.	consumers premises & consequently bill generated on meter reading
2	2.2.5	The Commission directs DISCOMS / UPPTCL to expedite the process of finalization of audited accounts and submit the same for true-up exercise.	07 has been finalized and audited. The
3	4.7.7	Commission directs the DISCOMS to explore the innovative modes of payment and keep the Commission updated on a monthly basis.	forced in big towns. However action is being
4	4.10.3	The Commission directs the DISCOMS to initiate steps to procure more long term power at reasonable rates to mitigate the demand supply gap.	
5	4.12.6	The Commission directs the DISCOMS to adopt steps to create awareness & explore means to improve power factor in the State.	suitable capacities and replacing the defective units of Capacitor Banks have been taken up in R-APDRP scheme.
6	4.14.3	The Commission directs DISCOMS to substantiate its stand on TOD rebate with more data for each DISCOM and consumers at various voltages of HV-2 rather adopt a general assumption across all voltage levels as has been done in its present filing.	find out consumption history of HV-2 consumers at various voltage levels along with off-peak & peak periods. Data are
7	4.18.3	The Commission directs the DISCOMS to review the cases related to additional charges for LMV-2 category consumers and take necessary action in line with the provisions of the Tariff Order. Further the DISCOMS are directed to submit a status report on KVAH metering of LMV - 2 category consumers.	consumers are being taken up as per Tariff order 2009-10 & Rate schedule issued by UPERC. Billing of LMV-2 consumers are being done on basis of KWH metering only & not on KVAH metering.
8	4.24.12	The Commission redirects the DISCOMS to submit voltage - wise cost of service study report.	
9	4.27.3	The Commission re directs the DISCOMS to install electronic meters in the residential premises of the employees as well as in their offices.	electronic meters are installed at their
10	6.3.5	The Commission directs the DISCOMS to carry out the energy audit / estimation study with voltage wise break up of distribution losses into technical loss and commercial loss.	APDRP scheme.
11	6.3.6	The Commission directs the DISCOMS to report the status of the metering at the mentioned interfaces along with the proposed plan to undertake the metering for the remaining points. The licensees shall also report the status of the progress on this front on a monthly basis along with reasons for deviation from the plan, if any.	have been installed at all the interface points.

Table 2-11: Compliance of UPERC Directives:

S. No.	Ref.	Description of Directive for DISCOM	Compliance of the Directives
12	6.12.6	The Commission directs the licensees to submit details of power procured below 49.2 Hz between 1st August 2009 and 31st March 2010 along with costs during the submission of next ARR/ Tariff petition.	Details are under compilation, shall be submitted to UPERC separately
13	6.12.8	The Commission redirects the DISCOMS to adopt a transparent procedure based on competitive bidding for procuring power on short term basis.	
14	6.19.9.8		Action is being taken for Capitalization of salaries & wages on employees for FY 2009- 10 as approved by UPERC.
15	6.19.9.9	The Commission directs DISCOMS to submit the Fresh Actuarial Valuation Study Report in respect to employee expenses.	-
16	6.19.10.3	The Commission directs DISCOMS to capitalise the expenditure based on the actual A&G expenses incurred/ projected to be incurred and based on the past audited accounts. Further DISCOMS should have proper accounting system to capture the expenses related to capital schemes rather than assuming a standard capitalisation % age.	DISCOM regularly as was also approved by the Board of directors in its meeting held on 30-05-2006. The Company is trying its level best to update the accounts duly audited. However due to practical difficulties the accounts up to the financial year 2006-07 have been finalized till date. The Company is going ahead for computerized accounting system under R- APDRP scheme and after implementation of the same the scheme wise capital expenditure will be identifiable easily.
17	6.21.5	The Commission reiterates its direction to the DISCOMS to ensure proper maintaining of detailed fixed assets registers to work out the depreciation expense as specified in the Distribution Tariff Regulations and directs the DISCOMS to submit a report to the Commission citing clearly as to how they are maintaining fixed assets registers.	officers for maintaining Fixed asset Registers at each Distribution s/s & offices.
18	6.22.6.1	The Commission directs DISCOMS to develop a system whereby the actual interest accrued/ incurred till the capital scheme is completed and put to use gets captured in separate account typically called as 'Interest during Construction' (IDC) rather than assuming a standard capitalisation %age.	6.19.10.3., the Co., is trying to implement the computerization of accounts and after that the identification of scheme wise capital expenditure will be possible.
19	6.23.4	The Commission directs the DISCOMS to submit DISCOM-wise 10 sample cases of LT consumers where orders have been issued for writing of bad debts clearly depicting the procedure adopted for writing off bad debts alongwith a policy framework for approval.	way of P.D. and writing of the fictitious arrears. At the Distribution Level.
20	6.29.7	The Commission redirects the DISCOMS to submit for approval the methodology and formula to be adopted for automatic recovery of the Fuel Cost changes.	Commission, directives in this regard are

S. No.	Ref.	Description of Directive for	Compliance of the
		DISCOM	Directives
21	6.32.4	The Commission redirects the DISCOMS to submit the expenses with a proportionate allocation towards wheeling and retail supply business in the next ARR filing.	towards wheeling and retail supply business in being submitted.
22	10.2.6	The Commission directs the UPPCL/ DISCOMS to submit the status on development of the Trading Desk.	
23	10.5.10	The Commission directs the DISCOMS to forward the DPR of at least four or five DSM measures it intends to take up initially, for approval of the Commission.	taken up by UPPCL.
24	10.6.5	The Commission directs DISCOMS to undertake benchmarking studies such as Incentive - disincentive mechanism for distribution utilities, energy audit, assessment of Cost of Supply, agricultural norms study, Load Forecasting Study, 400 / 765 kV Transmission line capital cost benchmarking, O&M expenditure study, Actuarial Valuation study for employee expenses etc. for determination of desired performance standards and submit the same to the Commission. Further, DISCOMS are directed to submit the Terms of Reference of study for approval of the Commission.	scheme.
25	10.7.4	The Commission directs all DISCOMS to compute the AT&C loss figures considering differential analysis of technical losses, non- technical losses and collection efficiency.	
26	10.7.7	The Commission directs all DISCOMS to undertake loss studies for proper segregation of technical and commercial losses on a sample basis for at least 2 urban and 2 rural divisions of one / two circles. Further, DISCOMS are directed to submit Terms of Reference of the study for approval of the Commission.	scheme.

3 Load Forecast and Revenue Assessment:

3.1 Study for Long Term Sales & Load Forecasting

Regression analysis was used as the method of first choice for long term forecasting of sales of consumer categories whose demand is believed to be driven by economic and demographic factors. For the rest, sales projections were made on the basis of past trends except where consumption showed no clear trend or it showed a declining trend. For such consumer categories the energy demands were pegged at the existing levels. The analysis was based perforce on commercial data upto the year2007-08 since economic and demographic data for the year 2008-09 and later was not available at the time of the study and is still not available.

The consumer category wise sales projections yielded by the above study are attached as section-3.11. The method is based on determining **unrestricted energy** requirement of a given consumer group by first adding commercial loss to **billed energy** to **estimate energy supplied** and then adding **unserved energy** (owing to load shedding) to **energy supplied** to obtain **unrestricted energy** requirement. Year-wise unrestricted energy requirement of each consumer group in each zone so calculated constitute dependent variables while the economic and demographic parameters constitute independent variables in the regression analysis. Regression analysis yielded values of coefficients and intercepts which when applied to projected values of dependent variables (economic and demographic parameters in the present case) yielded corresponding values of independent variables (unrestricted energy requirement of each consumer group in each zone). Wherever regression analysis showed no meaningful relationship between the independent and dependent variables, the method was not used.

Estimated category wise energy sales (billed energy) were calculated back from unrestricted energy requirements projected in the following manner. *The total energy available at the input points of the DisComs* was calculated by subtracting estimated *technical losses* from the *total energy available at source power plant busbars*, taken as around 65000 MU in the year 2010-11 and around 77000 MU in the year 2011-12. Since certain zones and certain consumer categories are not subjected to load shedding, the *net energy supplied to the general consumer*

categories and areas was determined by subtracting *unrestricted energy requirement* of special consumer categories and areas from the *total energy available at the input points of the DisComs. Billed energy* was calculated by subtracting commercial loss from *supplied energy*.

The methodology used is described in detail in section 3.11.

Year 2010-11

3.2 Sales Forecast:

As mentioned in the first paragraph, while category wise sales projections are available from the study, actual figures for the first six months of 2010-11 (cumulative figures of September 2010) are also now available. It is logical to assume that the trend for the remaining part of the year cannot be too different from the first half of the year. Therefore we have based sales projections for the year 2010-11 on the current actual September 2010 data, rather than the results of the study for long term forecasting.

3.3 Energy Sales (Billed Energy):

The estimated energy projected for each consumer sub-category has been calculated by applying 10% growth rate on cumulative energy billed for consumers of the given sub-category till September 2010. Growth in energy sales is due to natural load growth, increased energy availability and lower distribution losses.

3.4 Connected Load:

Since energy consumption is a function of connected load, it will be the lowest in the first month of a year and highest in the last month, if connected load shows a rising trend with all other factors influencing energy consumption remaining the same. Since energy sales is a cumulative figure for the whole year, it is logical to adopt the connected load at the mid year rather than the figure at the end of the year. Accordingly the actual connected load figures of September 2010 have been used in the sales projections.

3.5 Number of Consumers:

The logic for using mid- year (September 2010) figures is equally valid for consumer numbers and the same has been adopted in projecting these numbers for the year 2010-11.

Billing Determinants: Annual Average Consumer Numbers, Connected Load & Total Sale: FY 2010-11 has been presented at Table-3.10.

3.6 Load Forecast: FY2010-11

The load forecast corresponding to the projected sales has been worked out as follows:

•	Estimated Energy sales (Excluding bulk supply of 3027 MU to KesCo)	:9282MU
•	Projected distribution loss	: 30.80%
•	Input Energy Required at DVVNL input points	:13414 MU
•	Corresponding value of energy required (At Source power plant bus bars)	:14218 MU

Year 2011-12

3.7 Sales Forecast:

The year 2011-12 is expected to see a substantial jump in the total availability of energy at the source power plant bus bars at around 77000 MU when compared to around 65000 MU in 2010-11 for Uttar Pradesh as a whole. The demand of most consumer categories and zones is presently constrained by availability which falls substantially short of demand. Hence, with increased availability of energy, the projected sales are expected to rise not only on account of natural load growth but also because of easing of supply constraints.

The sales projections of 2011-12 have therefore been arrived at by applying subcategory wise percentage growth in sales in the year 2010-11 (estimated) over the corresponding figures of 2009-10 (actual). 7% has been generally added to the sales projections calculated on the basis of natural load growth. The factor of 7% is the number that results in the total input energy availability of around 77000 MU at the power plant busbars matching the total energy billed plus technical and commercial losses across the whole distribution and transmission network of the state. A lower figure (<7%) would result in a negative gap between energy required and available while a higher figure (>7%) would result in a positive gap between energy required and available.

The percentage increases in sales of various consumer categories used in the calculations are as follows:

SI. No.		Consumer sub-category	Growth Rate						
1	DOI								
	(A)								
		(i) Un-metered	15.6%						
		(ii) Metered	15.6%						
	(B)	Supply at Single Point for Bulk Load	15.6%						
	(C1)	Other Metered Domestic Consumers	15.6%						
	(C2)	Life Line Consumers/BPL	15.6%						
		SUB TOTAL	15.6%						
2	NO	N DOMESTIC LIGHT FAN & POWER (LMV-2)							
	(A)	Consumer getting supply as per "Rural Schedule"							
		(i) Un-metered	9.1%						
		(ii) Metered	9.1%						
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	9.1%						
	(C)	Other Metered Non-Domestic Supply	9.1%						
		SUB TOTAL	9.1%						
3	PUE	PUBLIC LAMPS (LMV-3)							
	(A)	Un-metered Supply							
		(i) Gram Panchyat	7.0%						
		(ii) Nagar Palika & Nagar Panchyat	7.0%						
		(iii) Nagar Nigam	7.0%						
	(B)	Metered Supply							
		(i) Gram Panchyat	7.0%						
		(ii) Nagar Palika & Nagar Panchyat	7.0%						
		(iii) Nagar Nigam	7.0%						
		SUB TOTAL	7.0%						
4	LIG	HT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)							
	(A)	Public Institution(4 A)	7.0%						
	(B)	Private Institution(4 B)	7.0%						
		SUB TOTAL	7.0%						
5	PRI	/ATE TUBE WELL/PUMPING SETS (LMV-5)							
	(A)	Rural Schedule							
		(i) Un-metered	12.7%						
		(ii) Metered	12.7%						
	(B)	Urban Schedule	I						
		12.7%	12.7%						
	SUB TOTAL 12								
6	1	ALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)							
	(A)	Small & Medium Power (Power Loom)							
		(i) Rural Schedule	7.0%						
		(ii) Urban Schedule	7.0%						

7	PUBLIC WATER WORKS(LMV-7)								
	(A)	7.0%							
		(i) Jal Nigam	13.7%						
		(ii) Jal Sansthan	13.7%						
		13.7%							
	(B)	Urban Schedule							
		(i) Jal Nigam	13.7%						
		(ii) Jal Sansthan	13.7%						
		(iii) Others (Water Works)	13.7%						
		SUB TOTAL	13.7%						
8		TE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)							
	(A)	13.7%	22.8%						
	(B)	13.7%							
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, Ll upto 100 BHP	22.8%						
		(ii) Laghu Dal Nahar above 100 BHP	22.8%						
		SUB TOTAL	22.8%						
9	TEN	/IPORARY SUPPLY (LMV-9)							
-	(A)	Metered Supply							
		(i) Individual Residential Consumers	7.0%						
		(ii) Others	7.0%						
	(B)	Un-metered Supply							
		(i) Ceremonies	7.0%						
		(ii) Temporary Shops	7.0%						
		SUB TOTAL 7.0%							
10	DEP	DEPARTMENTAL EMPLOYEES (LMV-10)							
	(A)	Serving							
		(i) Class IV Employees	7.0%						
		(ii) Class III Employees	7.0%						
		(iii) Junior Engineers & Equivalent	7.0%						
		(iv) Assistant Engineers & Equivalent	7.0%						
		(v) Executive Engineers & Equivalent	7.0%						
		(vi) Deputy General Manager & Equivalent	7.0%						
		(vii) CGM/GM & Equivalent posts and above	7.0%						
	(B)	Total Pensioner & Family Pensioner	7.0%						
		SUB TOTAL	0.0%						
11	NO	N INDUSTRIAL BULK LOADS (HV-1)							
	(A)	Urban Schedule							
		(i) For supply at 11kV	7.1%						
		(ii) For supply at 33 kV & above	7.2%						
	(B)	Rural Schedule							
		(i) For supply at 11kV	0%						

12	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)								
	(A)								
		7.1%							
		7.1%							
		7.1%							
		7.1%							
	(B)	Rural Schedule							
		(i) For supply at 11kV	7.1%						
		(ii) For supply above 11kV and upto & Including 66kV	7.1%						
		SUB TOTAL	7.1%						
13	RAI	LWAY TRACTION (HV-3)							
	(A)	For supply at the above 132kV	0.0%						
	(B)	For supply below 132kV	0.0%						
	(C)	ForDelhi Metro Rail							
		SUB TOTAL	0.0%						
14	LIFT	IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)							
	(A)	For supply at 11kV	15.1%						
	(B)	For supply above 11kV and upto 66kV	15.1%						
	(C)	For supply above 66kV and upto 132kV	15.1%						
		SUB TOTAL	15.1%						
15	EXT	RA STATE CONSUMERS							
	(A)	EXTRA STATE CONSUMERS	0.0%						
16	BUI								
	(A)	NPCL	3.4%						
	(B)	KESCO							
	(C)	Others							
		SUB TOTAL	3.4%						
		GRAND TOTAL	10.0%						

3.8 Connected Load:

Connected loads of unmetered consumers have been calculated by applying the following consumption norms:

SI. No.	Consumer category	Area: Urban/	Consumption norms
_		Rural	01.00 100/16/100/100
1	Private tube well	Rural	91.66 kWh/kW/m
2	Domestic rural consumers	Rural	72 kWh/kW/m
3	Rural commercial consumers	Rural	72 kWh/kW/m
4	Rural state tube well	Rural	3562.35 kWh/pump/month
5	Street light	Rural	300 kWh/kW/month
6	-Ditto-	Urban	360 kWh/kW/month

Mid- year connected loads of metered consumers have been calculated by applying the same mid -year Connected load (kW) /Annual billed energy (kWh) ratio as prevailed in September 2010.

3.9 Number of Consumers:

Number of consumers under each sub-category in the mid year of 2011-12 has been calculated by applying the same number of consumers: connected load (kW) ratio as prevailed in March 2010.

Billing Determinants: Annual Average Consumer Numbers, Connected Load & Total Sale: FY 2011-12 have been presented in Table- 3.11.

3.10 Load Forecast: FY2011-12

The load forecast corresponding to the projected sales has been worked out as follows:

•	Estimated Energy sales (Excluding bulk supply of 3131MU to KESCO)	: 10408 MU
•	Projected distribution loss (within DVVNL network)	:28%
•	Input Energy Required at DVVNL input points	: 14456MU
•	Corresponding value of energy required (At source power plant busbars)	: 15283 MU

CONSUMER CATEGORY-WISE SALE PROJECTIONS: 2010-11

3.11 Sales Projections by Regression Analysis:

As detailed in previous section, regression analysis has been used as the method of first choice for forecasting sales of consumer categories whose demand is driven by economic and demographic factors. For the rest, sales projections have been made on the basis of past trends except where consumption showed no clear trend or it showed a declining trend. For such consumer categories the energy demands has been pegged at the existing levels. The calculation procedure used for regression analysis is described below.

Unrestricted energy requirement has been calculated by multiplying the projected population and per capita GDP by their respective coefficients and adding the intercept - the coefficients and intercept have been determined by regression analysis .Unrestricted energy requirement can be expressed as under:

Energy Requirement (in MU) = p * P + gdp * GDP + Intercept

Where P = population of the zone(x 10³), GDP = per capita GDP of the zone in Rs. per annum and p= coefficient for population(x 10³), and gdp = coefficient for per capita GDP and Intercept is a number to be added to the sum on the right hand side.

Zone-wise regression coefficients & intercept and, the values of unrestricted energy requirement of each consumer category in each zone are tabulated under respective consumer categories. From the *Unrestricted Energy Requirement, Energy Supplied* and *Billed Energy* have been calculated in the manner described at Section 3.1.

The projected population and per capita GDP have been taken from the Table-1 below:

Table 1: 2010-11 Projections							
Zone	Population (x 103)	Per Capita GDP (Rs.)					
Agra	11,465	18,053					
Aligarh	8,354	17,720					
Kanpur	8,144	12,698					
Banda	4,732	11,448					
Jhansi	4,921	16,094					

Dakshinanchal Vidyut Vitaran Nigam Ltd. AGRA DisCom

LMV-1 Consumer:

The coefficients and intercepts yielded by regression analysis of energy requirement of LMV-1 consumers from 2000-01 to 2007-08 and the calculated values of energy based thereon are tabulated below:

Table 2: Consumer Category LMV 1									
	Unres	tricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars					
Zone	Mathad	Regression Coefficients & Intercept			Calculated	Energy Supplied	Billed Energy:		
	Method Used	Intercept	Population (x 103)	GDP per capita	Value (MU)	(= Energy Billed + Commercial Loss): MU	MU		
Agra		- 7,424.1	0.9533	- 0.0	3,007	3,007	2,282		
Aligarh		- 1,696.1	0.1828	0.1	1,248	715	543		
Kanpur	Regression	- 6,295.5	1.0717	- 0.1	1,148	658	499		
Banda		- 1,274.1457	0.2601	0.0	372	213	162		
Jhansi		- 4,579.6	1.3714	- 0.1	879	504	382		
		Total			6,654	5,096	3,868		

LMV- 2 Consumers:

While regression analysis has been used to project unrestricted energy requirement of LMV-2 consumers in Agra, Kanpur, Banda and Jhansi zones, the same could not be applied to project the energy requirement of LMV-2 consumers in Aligarh zone as the *Significance F* value was found unacceptably high (0.068) in that case, signifying that the relationship between the supposed driving parameters (population and per capita GDP) was not statistically meaningful. The difficulty arose from the fact that the past trend showed ups and downs from year to year. Zero growth has therefore been applied in this case.

Zone-wise regression coefficients & intercept and, the values of unrestricted energy requirement of LMV-1 consumers calculated there from for each zone are tabulated at Table- 3 below except in case of Aligarh zone, as mentioned above.

Table 3	: Consume	er Category	y LMV 2				
	Unres	tricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars			
Zone	Mathad	Regressio	n Coefficient	s & Intercept	Colordadad	Energy Supplied	Billed Energy: MU
	Method Used	Intercept	Population (x 103)	GDP per capita	Calculated Value (MU)	(= Energy Billed + Commercial Loss): MU	
Agra	Regression	-416.1017	0.1509	-0.0415	565	565	429
Aligarh		Zero	Growth		185	106	80
Kanpur		-522.3269	0.0648	0.0112	148	84	64
Banda	Regression	-362.7733	0.1077	-0.0055	84	48	37
Jhansi		-392.5203	0.1416	-0.0116	118	67	51
		Total			1,098	870	661

LMV-3 Consumers:

Across zones the sale of energy to LMV-3 consumers shows no growth and even negative growth sometimes. Hence zero growth has been considered for this consumer category in all zones except Kanpur, where a positive growth is seen and regression analysis results show acceptable results.

The projections are tabulated below:

Table 4: Consumer Category LMV 3								
	Unres	tricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars				
Zone	Method	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU	
	Used	Intercept	Population (x 103)	GDP per capita		Commercial Loss): MU		
Agra		Zero	Growth		39	39	39	
Aligarh		Zero	Growth		21	12	12	
Kanpur	Regression	-90.9619	0.0165	-0.0019	19	11	11	
Banda	Projection of Past Trend				11	6	6	
Jhansi		Zero	Growth		9	5	5	
		Tota		99	73	73		

LMV- 4 Consumers:

While regression analysis has been used to project unrestricted energy requirement of LMV-4 consumers in Aligarh, Kanpur, Banda and Jhansi zones, the same could not be applied to project the energy requirement of LMV-4 consumers in Agra zone as the Significance F value was found unacceptably high (0.139) in that case, signifying that the relationship between the supposed driving parameters (population and per capita GDP) was not statistically meaningful. It is explained by the fact that the past trend showed ups and downs from year to year. Hence no growth has been considered under this consumer category in Agra zone.

Table 5: Consumer Category LMV 4								
	Unres	tricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars				
Zone	Method	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU	
	Used	Intercept	Population (x 103)	GDP per capita		Commercial Loss): MU		
Agra		Zero	Growth		174	174	132	
Aligarh		Reg	ression		139	80	61	
Kanpur		-844.0748	0.1339	-0.0112	104	60	45	
Banda	Regression	-557.4884	0.1943	-0.0235	93	53	41	
Jhansi		-917.6162	0.1746	0.0186	241	138	105	
		Tota		751	505	383		

LMV-5 Consumers:

While regression analysis has been used to project unrestricted energy requirement of LMV-5 consumers in Agra, Aligarh and Kanpur zones, the same could not be applied to project the energy requirement of LMV-5 consumers in Jhansi zone as the Significance F value was found unacceptably high (0.89) in that case, signifying that the relationship between the supposed driving parameters (Population and per capita GDP) was not statistically meaningful. The energy requirement of LMV-5 consumers in Jhansi zone was therefore projected based on past trend. In case of Banda zone, the past trend showed ups and downs from year to year. Hence no growth has been considered under this consumer category in Banda zone.

Table 6: Consumer Category LMV 5								
	Unrest	ricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars				
Zone	Method Used	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU	
		Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU		
Agra		-3500.1308	0.7017	-0.1972	985	985	748	
Aligarh	Regression	-4684.7816	0.8699	-0.1066	692	692	526	
Kanpur		-2128.6679	0.4044	-0.0563	449	449	341	
Banda		Zero	Growth		75	75	57	
Jhansi	Jhansi Projection of Past Trend					46	35	
		Tota		2,249	2,249	1,707		

LMV-6 Consumers:

Energy requirement of LMV-6 consumers in each zone has been projected by regression analysis. The results are tabulated below.

Table 7	Table 7: Consumer Category LMV 6									
	Unrest	tricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars						
Zone	Method Used	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU			
		Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU				
Agra		287.3758	-0.0365	0.0234	291	291	221			
Aligarh		-1385.0146	0.1829	0.0150	409	234	178			
Kanpur	Regression	-756.1163	0.1055	0.0044	159	91	69			
Banda		-811.7940	0.2200	-0.0058	163	93	71			
Jhansi		-666.8018	0.2308	-0.0210	131	75	57			
		Tota			1,153	785	596			

LMV- 7 Consumers:

Energy requirement of LMV-7 consumers in each zone has been projected by regression analysis except in case of Banda, where the value of Significance F was unacceptably high, and the energy requirement was therefore projected on the basis of past trend, the results are tabulated below:

Table 8: Consumer Category LMV 7										
	Unrest	ricted Energ	gy Requireme	ent: No Supply (onstraints With Availability of 65000 MU at source power plant busbars					
Zone	Method	Regressio	n Coefficient	s & Intercept	Calculated Value (MU)	Energy Supplied	Billed Energy:			
	Used	Intercept	Population (x 10 ³)	GDP per capita		(= Energy Billed + Commercial Loss):	MU			
			(****)	cupitu		MU				
Agra		-223.3708	0.0361	-0.0048	103	103	103			
Aligarh	Regression	-97.7221	0.0142	0.0012	42	24	24			
Kanpur		-207.0368	0.0370	-0.0041	42	24	24			
Banda		Projection	of Past Tren	d	41	24	24			
Jhansi	Regression	-156.0751	0.0413	-0.0004	41	24	24			
		Tota			270	199	199			

LMV- 8 Consumers:

While the energy requirement of LMV-8 consumers in Aligarh and Banda zones could be projected by regression analysis, it could not be done in case of other zones. In case of Kanpur zone there is a sharp drop in energy billed to this consumer category after the year 2006-07. Hence the energy requirement of LMV-8 consumers in Kanpur zone has been pegged at 2007-08 level. In case of Agra zone, the trend of energy billed to these consumers' shows a flat trend, whence zero growth in energy requirement has been considered in this case. In case of Jhansi zone, regression analysis throws up an unacceptably high value of Significance F ,hence the energy requirement of LMV-8 consumers in Jhansi zone has been projected based on past trend.

Table 9	Table 9: Consumer Category LMV 8									
	Unrest	ricted Energ	gy Requireme	With Availability of 65000 MU at source power plant busbars						
Zone	Method	Regression Coefficients & Intercept			Calculated	Energy Supplied (= Energy Billed +	Billed Energy:			
	Used	Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU	MU			
Agra		Zero	Growth		50	50	50			
Aligarh	Regression	-175.4894	-0.0030	0.0220	190	109	109			
Kanpur		Zero	Growth		117	67	67			
Banda	Regression	-494.4583	0.1919	-0.0193	193	110	110			
Jhansi		Projection	of Past Tren	d	63	36	36			
		Tota		613	372	372				

LMV-9 Consumers:

The energy requirement of LMV-9 consumers in the year 2010-11 has been calculated by extrapolating the cumulative billed energy figures available for the month of August 2010. The projected figures for the year 2010-11 for DVVNL is: 5.5 MU.

LMV-10 Consumers:

This category of consumers exhibits little growth in energy requirement as there has been no net increase in number of consumers owing to the fact that new employees are not being inducted for last several years. Also no significant change in lifestyle, that could lead to increased energy requirement has been observed. Hence the projected energy requirement has been pegged at 2009-10 level. The zone-wise and total figures are tabulated below.

Table 1	Table 10: Consumer Category LMV 10								
		With Availability of 65000 MU at source power plant busbars							
Zone	Unrestricted Energy Requirement: No Supply Constraints	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU						
Agra	18	18	18						
Aligarh	18	10	10						
Kanpur	18	10	10						
Banda	18	10	10						
Jhansi	18	10	10						
Total	90	59	59						

HV-1 & HV-2 Consumers:

HV-1 and HV-2 consumers were earlier bracketed together, have been bifurcated recently. Since the sales projections are based on past trends from 2000-01 onward during most of which period HV-1 and HV-2 constituted one single group, these projections are for the two groups together.

In case of Agra, Aligarh and Kanpur zones, the projections are based on past trends. Banda and Jhansi zones showed decline in energy billed to HV-1+ HV-2 consumers, energy requirement of these consumers was pegged at the 2007-08 levels. The projected energy requirement of HV-1 and HV-2 taken together has been split in the same ratio as the cumulative billed energy figures of 2010-11 available till September 2010. The figures so calculated are tabulated in the last two columns of Table-11 below:

Table11	Table11 : Consumer Category HV 1+ HV 2									
	Unrestricted Energy Ro No Supply Const			ity of 65000 MU er plant busbars	Billed Energy: MU					
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed	Billed Energy: MU	HV1	HV2				
			+ Commercial Loss): MU							
Agra		779	779	591						
Aligarh	Ducto attan of Doct	666	666	505						
Kanpur	Projection of Past Trend	827	827	628						
Banda	Trenu	181	181	137						
Jhansi		289	289	220						
Total		2,742	2,742	2,081	160	1921				

HV-3 Consumers:

Of the five zones in DVVNL, Aligarh and Banda do not have any HV-3 consumers. The energy requirement of HV-3 consumers in Agra and Jhansi zones has been projected on the basis of past trends. Kanpur zone showed no clear trend, having seen a sharp decline in 2002-03 and slow growth thereafter, the energy requirement of HV-3 consumers in Kanpur zone has been pegged at 2007-08 level.

Table 12: Consumer Category HV 3								
	Unrestricted Energy Requirement: No Supply	v	With Availability of 65000 MU at source power plant busbars					
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU				
Agra		173	173	173				
Aligarh		-	-	-				
Kanpur	Projection of Past Trend	65	65	65				
Banda		-	-	-				
Jhansi		36	36	36				
	Total	274	274	274				

HV-4 Consumers:

Of the five zones in DVVNL, Aligarh and Kanpur do not have any HV-4 consumers. The energy requirement of HV-4 consumers in Agra and Banda zones has been projected on the basis of past trends. In case of Jhansi zone, the past trend showed ups and downs from year to year. Hence no growth has been considered under this consumer category in that zone

Table 13	Table 13:Consumer Category HV 4							
	Unrestricted Energy Requirement: No Supply (v	With Availability of 65000 MU at source power plant busbars					
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU				
Agra	Projection of Past Trend	41	41	41				
Aligarh		-	-	-				
Kanpur		-	-	-				
Banda	Projection of Past Trend	47	27	27				
Jhansi	Zero Growth	6	3	3				
	Total	93	71	71				

CONSUMER CATEGORY-WISE SALES PROJECTIONS: 2011-12

3.12 Sales Projections by Regression Analysis:

Consumer category-wise projections for sale of energy for the year 2011-12 have been made in exactly the same manner as for FY 2010-11. In case of projections based on regression analysis, the regression coefficients and intercept values have remained the same. Changes in projected values of econometric drivers, namely, population and per capita GDP have led to corresponding changes in Unrestricted Energy Requirement. Supplied Energy and Billed Energy have been determined taking into account availability of energy at the source power plant busbars (77000 MU) on the one hand and the technical and commercial loss trajectories on the other.

Zone-wise population and per capita GDP projected for the year 2011-12, which constitute the drivers determining energy requirement of consumer categories discussed in previous section are given below:

Table 1	15: Consum	er Categor	y LMV 1			· · · · · · · · · · · · · · · · · · ·	
	Unrestrict	ed Energy Re	quirement: I	With Availability of 77000 MU at source power plant busbars			
Zone	Method Used	Regression Coefficients & Intercept				Energy Supplied (=	Billed Energy:
		Intercept	Population (x 10 ³)	GDP per capita	Value (MU)	Energy Billed + Commercial Loss): MU	MU
Agra		-7424.0966	0.9533	-0.0276	3,222	3,222	2,454
Aligarh		-1696.1031	0.1828	0.0799	1,338	898	684
Kanpur	Regression	-6295.5478	1.0717	-0.1011	1,253	841	640
Banda		-1274.1457	0.2601	0.0363	401	269	205
Jhansi		-4579.6023	1.3714	-0.0801	953	640	487
	<u>.</u>	Total	· · · · · · · · · · · · · · · · · · ·	7,167	5,869	4,471	

Consumer category-wise sales forecasts are tabulated below:

Table 1	16: Consum	er Categor	y LMV 2				
	Unrestrict	ed Energy Re	quirement: N	With Availability of 77000 MU at source power plant busbars			
Zone	Method Used	Regression Coefficients & Intercept			Calculated	Energy Supplied (= Energy Billed +	Billed Energy:
		Intercept	Population (x 103)	GDP per capita	Value (MU)	Commercial Loss): MU	MU
Agra	Regression	-416.1017	0.1509	-0.0415	571	571	435
Aligarh		Zero Gi	rowth		185	124	94
Kanpur		-522.3269	0.0648	0.0112	158	106	81
Banda	Regression	-362.7733	0.1077	-0.0055	91	61	46
Jhansi		-392.5203	0.1416	-0.0116	124	83	63
		Total		1,128	945	720	

Table 1	Table 17: Consumer Category LMV 3									
	Unrestric	ted Energy Re	equirement: I	With Availability of 77000 MU at source power plant busbars						
Zone	Method	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU			
	Used	Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU				
Agra		Zero G	rowth		39	39	39			
Aligarh		Zero G	rowth		21	14	14			
Kanpur		Regre	ssion		20	14	14			
Banda	Projection of Past Trend			15	10	10				
Jhansi	Zero Growth				9	6	6			
	Total					82	82			

Table 18: Consumer Category LMV 4									
	Unrestrict	ed Energy Re	equirement: I	With Availability of 77000 MU at source power plant busbars					
Zone	Method	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU		
	Used	Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU			
Agra		Zero Gi	rowth		174	174	133		
Aligarh		Regres	sion		146	98	75		
Kanpur		-844.0748	0.1339	-0.0112	117	79	60		
Banda	Regression	-557.4884	0.1943	-0.0235	102	68	52		
Jhansi		-917.6162	0.1746	0.0186	265	178	135		
		Total		804	597	455			

Table 1	Table 19: Consumer Category LMV 5									
	Unrestrict	ed Energy Re	quirement: I	With Availability of 77000 MU at source power plant busbars						
Zone	Method	Regression Coefficients & Intercept			Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU			
	Used	Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU				
Agra		-3500.1308	0.7017	-0.1972	1,013	1,013	771			
Aligarh	Regression	-4684.7816	0.8699	-0.1066	728	728	554			
Kanpur		-2128.6679	0.4044	-0.0563	484	484	369			
Banda		Zero Gi	owth		75	75	57			
Jhansi	Jhansi Projection of Past Trend					49	37			
		Total		2,349	2,349	1,789				

Table 20: Consumer Category LMV 6									
	Unrestrict	ed Energy Re	quirement:]	With Availability source power pl					
Zone	Method	Regression (Coefficients	& Intercept	Calculated Value (MU)	Energy Supplied (= Energy Billed +	Billed Energy: MU		
	Used	Intercept	Population (x 10 ³)	GDP per capita		Commercial Loss): MU			
Agra		287.3758	· ·	-	300	300	228		
Aligarh		-1385.0146	0.1829	0.0150	447	300	228		
Kanpur	Regression	-756.1163	0.1055	0.0044	173	116	88		
Banda		-811.7940	0.2200	-0.0058	178	119	91		
Jhansi		-666.8018	0.2308	-0.0210	140	94	71		
	Total 1,237 928 707								

Table 2	Table 21: Consumer Category LMV 7									
	Unrestrict	ed Energy Re	quirement: N	With Availability of 77000 MU at source power plant busbars						
Zone	Method	Regression	Coefficients &	& Intercept		Energy Supplied (=	Billed Energy:			
	Used	Intercept	Population (x 10 ³)	GDP per capita	Value (MU)	Energy Billed + Commercial Loss): MU	MU			
Agra		-223.3708	0.0361	-0.0048	109	109	109			
Aligarh	Regression	- 97.7221	0.0142	0.0012	45	30	30			
Kanpur		-207.0368	0.0370	-0.0041	46	31	31			
Banda]	Projection of	Past Trend		47	32	32			
Jhansi	Regression	-156.0751	0.0413	-0.0004	44	30	30			
		Total		291	231	231				

Table	Table 22: Consumer Category LMV 8									
	Unrestrict	ed Energy Re	quirement: N	With Availability source power p						
Zone	Method	Regression (Coefficients &	& Intercept	Calculated	Energy Supplied (= Energy Billed +	Billed Energy:			
	Used	Intercept	Population	· I · ·		Commercial Loss):	MU			
		тистери	$(x 10^3)$	capita		MU				
Agra		Zero Gr	owth		50	50	50			
Aligarh	Regression	-175.4894	-0.0030	0.0220	190	139	139			
Kanpur		Zero Gr	rowth		117	78	78			
Banda	Regression	-494.4583	0.1919	-0.0193	193	136	136			
Jhansi]	Projection of	Past Trend		63	43	43			
		Total			613	446	446			

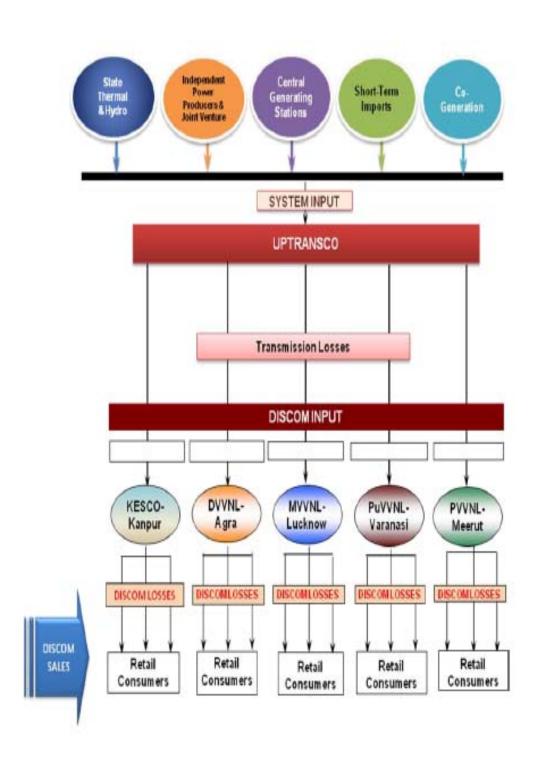
Table 2	Table 23: Consumer Category LMV 10						
		With Availability of 77000 MU at source power plant busbars					
Zone	Unrestricted Energy Requirement: No Supply Constraints	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU				
Agra	18	18	18				
Aligarh	18	12	12				
Kanpur	18	12	12				
Banda	18	12	12				
Jhansi	18	12	12				
Total	90	66	66				

Table2	Table24 : Consumer Category HV 1+ HV 2							
	Unrestricted Energy Requirement:	No Supply Constraints	With Availability source power p	Billed Energy: MU				
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU	HV1	HV2		
Agra		863	863	658				
Aligarh		848	848	646				
Kanpur	Projection of Past Trend	999	999	761				
Banda		181	181	138				
Jhansi		289	289	220				
Total		3,180	3180	2423	186	2237		

Table 25: Consumer Category HV 3							
	Unrestricted Energy Requirement: No Suppl	With Availability of 77000 MU at source power plant busbars					
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU			
Agra		178	178	178			
Aligarh		-	-	-			
Kanpur	Projection of Past Trend	65	65	65			
Banda		-	-	-			
Jhansi		36	36	36			
	Total	279	279	279			

Table 26:Consumer Category HV 4						
	Unrestricted Energy Requirement: No Supply C	With Availability of 77000 MU at source power plant busbars				
Zone	Method Used	Calculated Value (MU)	Energy Supplied (= Energy Billed + Commercial Loss): MU	Billed Energy: MU		
Agra	Projection of Past Trend	40	40	40		
Aligarh		-	-	-		
Kanpur		-	-	-		
Banda	Projection of Past Trend	47	31	31		
Jhansi	Zero Growth	6	4	4		
	Total	92	75	75		

Table 3-1: The schematic diagram for Energy flow in state of UP:



3.13 Summary of Sales Projections:

The consolidated category wise sales growth rate for Consolidated DisCom is presented in Table 3-2 which depict the growth rate of FY 2010-11 over FY 2009-10,likewise in Table 3-3, it represent growth rate of FY 2011-12 over FY 2010-11.



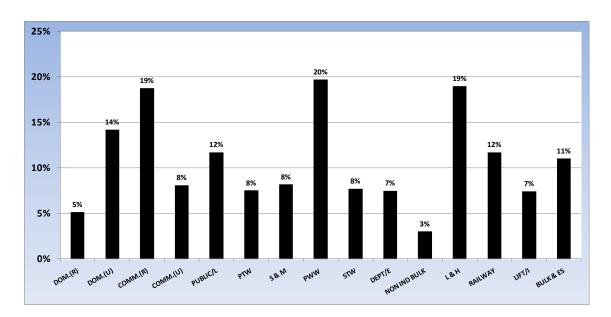
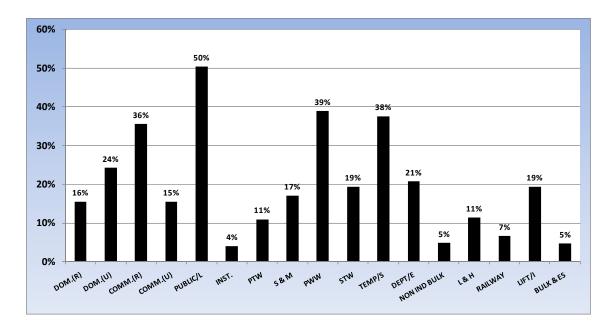


 Table 3-3: Category wise Sales growth rate Consolidated DisCom: FY 2011-12



3.14 Norms and Refinement of Billing Determinants:

In compliance with Commission directive, FY 2010-11 & FY 2011-12 ARR submission includes estimated revenue in category and subcategory wise for current year FY10 and forecast years FY11 & FY 12. The key steps in calculation of revenue is deriving and forecasting Billing Determinants. To achieve as much accuracy as possible, FY10 consolidated CS3 reports and detailed divisional CS3 reports, based on the original CS3 reports prepared at the divisional level, are reconciled and "normalized" as per Commission's approved consumption norms established in UPPCL order No.2649-CUR/L, dated 20-07-2001. These norms, specifying specific consumption levels for un-metered customers, are summarized on Table 3-4. The CS3 reports provide information on number of consumers, connected loads and kWh sales data for about 90 retail consumer categories and subcategories with detailed break-up of urban/rural, metered/un-metered and other pertinent information.

S'No	Category	Area	Consumption
	Un-metered Consumer	Rural/Urban	Norms
1	Private Tube Well	Rural	68.38 kWh/BHP/M or 91.66 kWh/kW/M
2	Domestic Rural Consumers	Rural	72 kWh/kW/M
3	Rural Commercial Consumers	Rural	72 kWh/kW/M
4	Rural State Tube Well	Rural	3562.35 kWh/Pump/M
5	Street Light	Rural	300 kWh/kW/Month
		Urban	360 kWh/kW/Month

Table 3-4: Consumption Norms for Un-metered Categories

As described above, the "normalization" process is developed at Divisional level to modify the divisional CS3 report obtained in electronic form from all distribution divisions to ensure the consistency between divisional CS3 data and consolidated CS3 data. The original CS3 data is processed in order to:

- Ensure that the year end number of customers and connected load are consistent with the number reported in the consolidated CS3/CS4 report as published by UPPCL by major tariff category level;
- Adjust the number of consumers and connected load to represent annual averages in order to estimate expected annual tariff revenue;

3.15 Billing frequency analysis:

As in the past submissions to the Commission, billing agent data are used to capture slab wise breakdowns of energy consumption, customer number and connected loads as required for Domestic (LMV-1), Commercial (LMV-2), Private Tube Wells (LMV-5) and Small & Medium Power (LMV-6). Subcategory breakdowns of the HV-2 category (Large & Heavy Power) at different voltage levels have been derived based on actual monthly bills for consumers served at 11 kV and above.

As per the Commission's directives, the sales and revenue forecast in this petition includes estimated revenue for all consumers who are expected to pay minimum charges.

In the current tariff schedule for load factor rebates in LMV-6 (Small and Medium Power) and HV-2 (Large and Heavy Power) consumers, billing agent's data are used to estimate distribution of sales in relation to various slabs of specific consumption in kWh/kW as stipulated in the tariff structure. For HV-2 consumers, the load factor related data and detailed breakdown of consumer information by voltage level has been estimated based on invoice bills for consumers at 11 kV and above.

Time-of-Day (ToD) tariffs were adopted for HV-2 consumers based on actual metering data and should result in more accurate HV-2 consumers' revenue estimates.

The detailed sub category wise data of Consolidated DisCom for FY 2009-10 is placed in Table 3-5 and the detailed sub category wise parameter estimated and projected for FY 2010-11 & FY 2011-12 are placed in Table 3-6 & Table 3-7 respectively based on the forecast are tabulated below.

ТҮРЕ	CATG.	C	CONSOLIDATED DISCOM FY 2009-10	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	UNIT SOLD (MU)
LMV1	(A)	(i)	ner getting supply as per "Rural Schedule" Un-metered	3653389	5737668	4715.7
		(ii)	Metered	1007954	1388627	1400.1
	(B)		at Single Point for Bulk Load	31472	159100	268.3
	(C1)		Metered Domestic Consumers	3836982	6755550	8443.7
SUB TOTAL	(C2)		ne Consumers/BPL OMESTIC LIGHT FAN & POWER (LMV-1)	79283 8609080	61193 14102138	50.5 14878.2
LMV2	(A)		ner getting supply as per "Rural Schedule"	0	0	0.0
		(i)	Un-metered	77649	148326	121.8
	(B)	(ii)	Metered	205119	422845	528.6
	(C)		e Advertising/Sign Post/Sign Board/Glow Sign/Flex Metered Non-Domestic Supply	11576 723140	21619 1742939	25.3
SUBTOTAL	(C)		DOMESTIC LIGHT FAN & POWER (LMV-2)	1017484	2335728	2901.4
LMV3	(A)	Un-me	tered Supply	0	0	0.0
		(i)	Gram Panchyat	875	9278	32.3
		(ii) (iii)	Nagar Palika & Nagar Panchyat	5603	36065	125.2
	(B)		Nagar Nigam d Supply	571	35751	131.2
	(2)	(i)	Gram Panchyat	15	661	2.4
		(ii)	Nagar Palika & Nagar Panchyat	336	23156	93.4
		(iii)	Nagar Nigam	238	36683	145.1
SUBTOTAL			PUBLIC LAMPS (LMV-3)	7639	141595	529.6
LMV4	(A)		Institution (4 A) e Institution (4 B)	26593	333064	1040.0
SUBTOTAL	(B)		POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4	15032 41626	112842 445906	230.0 1270.1
LMV5	(A)		Schedule	0	0	0.0
	()	(i)	Un metered Supply	708349	3708215	3892.9
		(ii)	Metered Supply	21986	124058	284.2
	(B)		Schedule	0	0	0.0
	_	(i)	Metered Supply	51239	324273	726.1
SUB TOTAL LMV6			ATE TUBE WELL/PUMPING SETS (LMV-5) & Medium Power (Power Loom)	781574	4156545	4903.2
LIVE V 0	(A)	Small (i)	& Medium Power (Power Loom) Rural Schedule	0 18868	0 139212	0.0
		(ii)	Urban Schedule	22977	139212	244.1
	(B)		& Medium Power	0	0	0.0
		(i)	Rural Schedule	28783	212710	259.9
		(ii)	Urban Schedule	77971	899724	1329.2
SUBTOTAL			& MEDIUM POWER UPTO 100 HP (75) (LMV-6)	148599	1440352	2007.6
LMV7	(A)		Schedule	0	0	0.0
		(i) (ii)	Jal Nigam Jal Sansthan	1673	41713 16933	146.2
		(11)	Others (Water Works)	433 462	10254	36.0
	(B)		Schedule	402	102.54	0.0
		(i)	Jal Nigam	810	28813	124.3
		(ii)	Jal Sansthan	1845	70889	320.9
		(iii)	Others (Water Works)	2027	64104	231.2
SUB TOTAL			PUBLIC WATER WORKS(LMV-7)	7250	232706	920.2
LMV8	(A)		d Supply	1876	45238	180.1
	(B)	Un-me (i)	tered Supply STW, Panchayat Raj, WB, I.Duch, P.Canals, LI_upto1001	0	0	0.0
		(i) (ii)	Laghu Dal Nahar above 100 BHP	26562 236	446711 13862	<u>1499.4</u> 53.5
SUBTOTAL	STA	· ·	BE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	230	505810	1733.0
LMV9	(A)		ed Supply	0	0	0.0
		(i)	Individual Residential Consumers	294	1739	4.3
		(ii)	Others	2485	16764	40.1
	(B)		tered Supply	0	0	0.0
		(i) (ii)	Ceremonies Temporary Shops	78 78	4270 1076	11.9
SUBTOTAL		()	TEMPORARY SUPPLY (LMV-9)	2936		59.4
LMV10	(A)					
		Servin		0	23850	0.0
		Servin (i)	Class IV Employ ees	0 14568	23850 0 53374	0.0 41.8
		(i) (ii)	Class IV Employ ees Class III Employ ees	14568 19903	0 53374 65780	41.8 78.5
		(i) (ii) (iii)	Class IV Employees Class III Employees Junior Engineers & Equivalent	14568 19903 2984	0 53374 65780 11333	41.8 78.5 19.3
		(i) (ii) (iii) (iv)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent	14568 19903 2984 2236	0 53374 65780 11333 7330	41.8 78.5 19.3 14.4
		(i) (ii) (iii) (iv) (v)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent	14568 19903 2984 2236 1180	0 53374 65780 11333 7330 4503	41.8 78.5 19.3 14.4 7.8
		(i) (ii) (iii) (iv) (v) (vi)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent	14568 19903 2984 2236 1180 87	0 53374 66780 11333 7330 4503 417	41.8 78.5 19.3 14.4 7.8 1.0
		(i) (ii) (iii) (iv) (v) (vi) (vi)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent	14568 19903 2984 2236 1180 87 512	0 53374 65780 11333 7330 4503 417 1562	41.8 78.5 19.3 14.4 7.8 1.0 1.0
	(B)	(i) (ii) (iii) (iv) (v) (vi) (vi) Total F	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above	14568 19903 2984 2236 1180 87	0 53374 66780 11333 7330 4503 417	41.8 78.5 19.3 14.4 7.8 1.0 11.5 154.7
		(i) (ii) (iii) (iv) (v) (vi) (vii) Total P	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EPARTMENTAL EMPLOYEES (LMV-10) Schedule	14568 19903 2984 2236 1180 87 512 30737	0 53374 65780 11333 7330 4503 4503 417 1562 78984 223285 0	41.8 78.5 19.3 14.4 7.8 1.0 11.5 154.7 328.8
UB TOTAL	(B)	(i) (ii) (iv) (v) (v) (vi) (vii) Total P D Urban (i)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner EPA ETMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076	41.8 78.5 19.5 14.4 7.8 1.0 1.5 1.5 1.5 1.5 328.9 0.0 621.0
SUBTOTAL	(B) (A)	(i) (ii) (iii) (v) (v) (vi) (vi) Total P D Urban (i) (ii)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner BEPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167	0 53374 65780 11333 7330 4503 417 1562 78984 22328 0 2270076 247497	41.8 78.5 19.3 14.4 7.8 1.0 1.5 154.7 328.9 0.0 621.0 621.0 648.5
SUBTOTAL	(B)	(i) (ii) (iii) (iv) (v) (vi) (vi) Total P D Urban (i) (ii) Rural S	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule	14568 19903 2984 2236 1180 87 512 30737 72207 0 0 807 167 0 0	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247097 247497 0 0	41.8 78.5 19.3. 14.4 7.8 1.0 1.5 1.5 1.5 328.9 0.0 0 621.0 648.8 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
UB TOTAL	(B) (A)	(i) (ii) (iii) (v) (v) (vi) (vii) Total F D Urban (i) (ii) Rural S (i)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner DEPARTMENTAL EMPLOYEES (IMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 53	0 53374 65780 11333 4503 417 1562 78984 223285 0 270076 247497 0 14897	41.8 78.5 19.3 14.4 7.8 1.0 1.5 1.5 1.5 7 328.9 0.0 621.0 648.5 0.0 648.5 0.0 39.0 39.0
UB TOTAL HV1	(B) (A)	(i) (ii) (iii) (v) (v) (vi) (vii) Total P D Urban (i) (ii) Rural S (i) (ii)	Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner EFPA ETMENTAL EMPLOYEES (LMV-10) Schedule For supply at 13 kV & above Schedule For supply at 33 kV & above	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 167 0 0 53 23	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 2770076 247497 0 14897 0 14897 5044	41.8 78.5 19.3. 14.4 7.8 1.0 11.5 154.7 328.9 0.0 621.0 648.8 0.0 648.9 0.0 13.2 0.0 13.2
UB TOTAL HV1	(B) (A) (B)	(i) (ii) (iii) (iv) (v) (vi) Total P D Urban (i) (ii) (ii) (ii)	Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner DEPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1)	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 53 23 1050	0 53374 65780 11333 4503 417 1562 78984 223285 0 270076 247497 0 14897	41.8 78.5 19.3 14.4 7.8 1.0 1.0 1.5 1.5 1.5 4.7 621.0
UB TOTAL HV1	(B) (A)	(i) (ii) (iii) (iv) (v) (vi) Total P D Urban (i) (ii) (ii) (ii)	Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner EFPA ETMENTAL EMPLOYEES (LMV-10) Schedule For supply at 13 kV & above Schedule For supply at 33 kV & above	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 167 0 53 23	0 53374 65780 11333 4503 4503 417 1562 78884 223285 0 270076 247497 0 247497 0 14897 5044 537513	41.8 78.5 19.3. 14.4 7.8 1.0 11.5 154.7 328.9 0.0 621.0 648.5 0.0 648.5 0.0 13.2 1322.1 1322.1 0.0 0 13.2
SUB TOTAL HV-1	(B) (A) (B)	(i) (ii) (iii) (iv) (v) (vi) Total P D Urban (i) (ii) (ii) Urban	Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner EFARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 11kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 0 807 167 20 30737 2207 0 0 807 167 20 30737 2207 0 0 807 165 0 0 0 53 23 20 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 2770076 247497 0 247497 0 14897 5044 537513 0 0	41.8 78.5 78.5 78.5 78.6 19.3 78.6 19.5 78.6 19.5 78.6 78.6 78.6 78.6 78.6 78.6 78.6 78.6
UBTOTAL HV1	(B) (A) (B)	(i) (ii) (iii) (iv) (v) (v) (vi) Total P D Urban (i) (ii) (ii) Urban (i)	Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above visioner & Family Pensioner EPA RTMENTAL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 34 kV & above For supply at 34 kV & above Schedule For supply at 34 kV & above For supply at 34 kV & above Schedule For supply above 66 kV and upto & Including 66 kV For supply above 66 kV and upto & Including 132 kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 533 233 1050 0 5900	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 2770076 247497 0 0 14897 5044 537513 0 1559261 566991 127128	41.8 78.5 78.5 78.5 78.6 19.3 78.6 19.5 78.6 19.5 78.6 78.6 78.6 78.6 78.6 78.6 78.6 78.6
UBTOTAL HV1	(B) (A) (B) (A)	(i) (ii) (iii) (v) (v) (vi) (vi) (vi) Urban (i) (ii) (ii) (ii) (iii) (iii) (iii) (iv)	Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above ensioner & Family Pensioner EFARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply at 11kV For supply at 32 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply above 06kV and upto & Including 66kV For supply above 11kV and upto & Including 132kV For supply above 12kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 533 233 1050 0 5900 457 141 233	0 53374 65780 11333 4503 4503 417 1562 78984 223285 0 270076 247497 0 247097 5044 537513 0 0 1559261 566991	41.8 78.5 78.5 19.3. 14.4 7.8 1.6 1.6 1.5 1.5 7.7 328.9 0.0.0 621.0 648.5 0.0.0 621.0 648.5 0.0.0 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2
UB TOTAL HV1	(B) (A) (B)	(i) (ii) (iii) (iv) (v) (v) (vi) (vi) (v	Class IV Employees Class III Employees Lunior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EPARTMENTAL EMPLOY EES (LMV-10) Schedule For supply at 13 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply at 11kV For supply at 32 kV & above Schedule Sch	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 532 233 1050 0 5900 457 141 23 0	0 53374 65780 11333 7330 4503 4503 417 1562 78984 223285 0 0 2770076 247497 0 2470497 0 247497 0 14897 5044 537513 0 1559261 566991 127128 57606 0 0	41.8 78.5 19.3 14.4 7.8 1.0 11.5 154.7 328.9 0.0 621.0 648.9 0.0 648.9 13.2 1222.1 0.0 3683.3 2040.9 474.7 229.6
UB TOTAL HV1	(B) (A) (B) (A)	(i) (ii) (iii) (iv) (v) (vi) Total P D Urban (i) (ii) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)	Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EFPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV For supply above 61kV and upto & Including 66kV For supply above 61kV and upto & Including 132kV For supply above 132kV Schedule For supply at 11kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 533 23 1050 0 5900 457 1411 23 0 403	0 53374 65780 11333 4503 4503 417 1562 78984 223285 0 270076 247497 0 14897 5044 537513 0 1559261 566991 127128 57006 0 89318	41.8 78.5 78.5 19.3.5 14.4 7.8 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
UB TOTAL HV1 AUB TOTAL HV2	(B) (A) (B) (A) (B)	(i) (ii) (iii) (iv) (v) (vi) Total F D Urban (i) (ii) (ii) (ii) (iii) (iii) (iii) (iv) Rural S (i) (iii) (iii) (iv) Rural S (i) (iii)	Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above Yensomer & Family Pensioner PEPARTMENTAL EMPLOYEES (IMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above For supply at 33 kV & above Schedule For supply at 33 kV & above For supply at 33 kV & above Schedule For supply at 33 kV above For supply at 11 kV For supply above 16 kV and upto & Including 66 kV For supply above 13 2 kV Schedule For supply above 11 kV For supply at 11 kV For supply above 11 kV and upto & Including 66 kV	$\begin{array}{c} 14568\\ 19903\\ 2984\\ 2236\\ 1180\\ 87\\ 512\\ 30737\\ 72207\\ 72207\\ 70\\ 0\\ 807\\ 6\\ 30737\\ 72207\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207\\ 30737\\ 72207$ 72207\\ 72207 72207\\ 72207 72207\\ 72207 72207\\ 72207 72207 72207	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 14897 5044 537513 0 1559261 127128 57606 0 89318 37872	41.8 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78
UB TOTAL HV1 UB TOTAL HV2	(B) (A) (B) (A) (B)	(i) (ii) (iii) (iv) (v) (vi) Total P D Urban (i) (ii) (ii) (ii) (iii) Urban (i) (iii) Rural S (i) (iii) Rural S (i) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) (iii) Rural S (iii) Rural S (iii) (iii) Rural S (iii) (Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above vensioner & Family Pensioner EPA RTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 32 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 32 kV and upto & Including 132 kV For supply above 6182 kV For supply above 132 kV Schedule For supply above 132 kV Schedule For supply above 11 kV and upto & Including 132 kV For supply above 132 kV Schedule For supply above 11 kV and upto & Including 66 kV For supply above 11 kV and upto & Including 66 kV For supply above 11 kV and upto & Including 66 kV For supply at 11 kV	$\begin{array}{c} 14568\\ 19903\\ 19903\\ 2984\\ 2236\\ 1180\\ 87\\ 512\\ 30737\\ \hline 72207\\ 0\\ 0\\ 807\\ \hline 7\\ 2207\\ 0\\ 0\\ 807\\ \hline 0\\ 807\\ 167\\ 0\\ 0\\ 302\\ 807\\ 167\\ 10\\ 53\\ 0\\ 0\\ 5900\\ 457\\ 141\\ 223\\ 0\\ 0\\ 5900\\ 457\\ 141\\ 23\\ 0\\ 0\\ 403\\ 62\\ 6986\\ \end{array}$	0 53374 65780 11333 7330 4503 4503 4503 4503 4503 4503 0 270076 247497 0 247497 0 247497 0 247497 0 14897 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176	41.8 78.5 78.5 19.3 14.4 7.8 11.5 154.7 328.9 0.0 621.0 648.5 0.0 648.5 0.0 13.3 1322.1 0.0 3683.5 2040.5 229.0 0.0 3683.5 2040.5 229.0 0.0 158.2 6776.6 6776.6 6776.6 6776.6 6776.6
UB TOTAL HV1 AUB TOTAL HV2	(B) (A) (B) (A) (B) (A)	(i) (ii) (iii) (iv) (v) (vi) (vii) Total F D Urban (i) (ii) (ii) (iii) (Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above resisoner & Family Pensioner DEPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 13 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply at 12 kU & and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 66kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 533 233 1050 0 5900 457 141 233 0 403 62 6986 5	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421	41.8 78.5 78.5 19.3 14.4 7.8 1.6 1.6 1.6 1.5 1.5 1.7 328.9 0.0.0 621.0 648.5 0.0.0 621.0 648.5 0.0.0 13.2 1322 1322 1322 1322 1322 1322 1322
UB TOTAL HV1 UB TOTAL HV2	(B) (A) (B) (A) (B) (A) (B)	(i) (ii) (iii) (iii) (v) (v) (v) (v) (v) (v) (v) (v) (v) (v	Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EPARTMENTAL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 32 kV & above For supply at 11kV For supply above 132 kV Schedule For supply above 118 kV and upto & Including 66 kV Heavy Power ABOVE 100 BHP (75 kW) (HV-2) ply b	$\begin{array}{c} 14568\\ 19903\\ 2984\\ 2236\\ 1180\\ 87\\ 512\\ 30737\\ \hline 72207\\ 0\\ 0\\ 807\\ \hline 72207\\ 0\\ 0\\ 807\\ \hline 141\\ 23\\ \hline 0\\ 0\\ 5900\\ 0\\ 5900\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	0 53374 65780 11333 7330 4503 4503 4503 4503 4503 4503 0 270076 247497 0 247497 0 247497 0 247497 0 14897 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176	41.8 78.5 19.3. 14.4 7.8. 14.4 7.8. 15.4.7 328.9 0.0. 621.0 621.0 621.0 648.5 0.0. 39.0 13.2 1322.1 0.0.0 3683.3 2040.5 2040.5 13.8 2040.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5
UB TOTAL HV1 UB TOTAL HV2 UB TOTAL HV3	(B) (A) (B) (A) (B) (A)	(i) (ii) (iii) (iii) (v) (v) (v) (v) (v) (v) (v) (v) (v) (v	Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above resisoner & Family Pensioner DEPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 13 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply at 12 kU & and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 66kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 533 233 1050 0 5900 457 141 233 0 403 62 6986 5	0 53374 65780 11333 7330 4503 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 5044 537513 0 14897 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 108421 108421	41.8 78.5 78.5 78.5 78.5 78.6 78.6 78.6 78.6 78.6 78.6 78.6 78.6
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3	(B) (A) (B) (A) (B) (A) (B)	(i) (ii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (Class IV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above rensioner & Family Pensioner EPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 32 kV & above Schedule For supply at 32 kV & above Schedule For supply at 32 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 32 kV For supply above 11kV and upto & Including 66kV For supply above 132kV For supply above 132kV For supply above 100 BHP (75 kW) (HV-2) ply at the above 132kV pup bew 132kV tro Tarction RAILWAY TRACTION (HV-3) ply at 11kV	$\begin{array}{c} 14568\\ 19903\\ 19903\\ 2984\\ 2236\\ 1180\\ 87\\ 512\\ 30737\\ \hline 72207\\ 0\\ 0\\ 0\\ 807\\ 167\\ 0\\ 0\\ 323\\ 23\\ \hline 1050\\ 0\\ 0\\ 5900\\ 457\\ 141\\ 23\\ 0\\ 0\\ 403\\ 62\\ \hline 6986\\ 5\\ 3\\ 3\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 53374 65780 11333 7330 4503 417 1562 78884 223285 0 270076 247497 0 247497 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 124164 0	41.8 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL	(B) (A) (B) (A) (B) (C)	(i) (ii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 32 kV Schedule For supply above 132 kV For supply above 142 kV and upto & Including 66 kV For supply above 142 kV and upto & Locking 66 kV For supply above 132 kV poly at the above 132 kV poly be own 132 kV Toration RALWAY TRACTION (HV-3)	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 53 23 1050 5900 0 403 62 6886 5 3 0 403 0 403 62 6886 5 3 0 8	0 0 53374 65780 11333 7330 4503 4171 1562 78984 223285 0 0 270076 247497 0 247497 0 247497 0 14897 5044 537513 0 159261 127128 57606 0 89318 37872 2438176 108421 124164 0 232585	41. 78. 78. 19. 14. 73. 14. 74. 14. 154. 0. 621. 648. 0. 648. 0. 648. 0. 0. 648. 0. 0. 648. 0. 0. 0. 0. 648. 0. 0. 0. 0. 648. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
RUB TOTAL HV1 BUB TOTAL HV2 RUB TOTAL HV3 SUB TOTAL HV4	(B) (A) (B) (A) (A) (A) (C) (C)	(i) (ii) (iii) (iv) (v) (vi) (vii) (vii) (vii) Urban (i) (ii) (ii) (ii) (iiii) (iii)	Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above vensioner & Family Pensioner EPARTMENTAL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV above Schedule For supply at 11kV For supply at 33 kV above Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply above 112XV Schedule For supply above 112XV Schedule For supply above 112XV For supply above 112XV Schedule For supply above 112XV Tor stapply above 112X V Schedule For supply at 11kV For supply above 112X V Schedule For supply at 22XV Tor Traction RALWAY TRACTION (HV-3) pup at 11	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 1160 807 0 532 1050 0 5900 453 0 403 62 6986 5 3 0 80 21 1	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 0 14897 5044 537513 0 14897 14897 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 124164 0 232585 83845 60731 9631	41.1 78. 78. 19. 14.4 7.3. 14.4 7.3. 154. 328.5 0.0. 648.8 0.0. 648.8 0.0. 648.8 0.0.
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL HV4 SUB TOTAL	(B) (A) (B) (A) (A) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C)	(i) (ii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EFPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply above 618V and upto & Including 132kV For supply above 618V and upto & Including 132kV For supply above 618V and upto & Including 66kV For supply above 6182kV Schedule For supply above 6182kV Schedule For supply above 132kV Schedule For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV Tor Traction RAILWAY TRACTION (HV-3) ply at 11kV ply above 11kV and upto 66kV HV apply above 6182kV TION & # CANAL ABOVE 100 BHP (75 kW) (HV-4)	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 0 533 23 1050 0 5900 457 141 23 0 5900 457 141 23 0 5900 457 141 23 0 5900 457 1457 53 0 0 5900 457 141 105 80 5900 405 5000 405 5000 405 5000 405 5000 405 5000 405 5000 405 5000 405 405	0 53374 66780 11333 7330 4503 417 1562 78884 223285 0 270076 247497 0 247497 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 124164 0 232585 83845 60731 9631 154207	41.1 78.3 78.3 19.3 14.4 7.4 11.3 14.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL HV4 SUB TOTAL XTRA STATE	(B) (A) (B) (A) (A) (A) (C) (C)	(i) (ii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (Class II Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above wisioner & Family Pensioner EPARTMENTAL EMPLOY EES (LMV-10) Schedule For supply at 13 kV & above Schedule For supply at 33 kV & above Schedule For supply at 32 kV & above Schedule For supply above 13 kV & and upto & Including 66 kV For supply above 13 kV and upto & Including 66 kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at 11 kV ply above 11 kV and upto 66 kV ply above 66 kV and upto 13 2 kV Schedule For supply at 11 kV Schedule For supply at 11 kV Schedule For supply at 11 kV Schedule Schedule For supply above 13 kV and upto 8 Including 66 kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-4) Schedule Schedule For Sched	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 30737 72207 0 807 167 0 53 23 1050 0 5900 4433 0 403 62 6986 5 3 0 80 223 11 102 4	0 0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 0 270076 247497 0 247497 0 247097 5044 537513 0 14897 5044 537513 0 1559261 127128 537606 0 839318 127128 537606 0 839318 127128 537606 0 839318 128285 83845 60731 9631 154207 7909	41.8 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL SUB TOTAL XTRA STATE SUB TOTAL	(B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(i) (ii) (iii) (iv) (iv) (v) Total P D D D D D D D D D D D D D	Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner EFPARTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply above 618V and upto & Including 132kV For supply above 618V and upto & Including 132kV For supply above 618V and upto & Including 66kV For supply above 6182kV Schedule For supply above 6182kV Schedule For supply above 132kV Schedule For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV Tor Traction RAILWAY TRACTION (HV-3) ply at 11kV ply above 11kV and upto 66kV HV apply above 6182kV TION & # CANAL ABOVE 100 BHP (75 kW) (HV-4)	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 0 533 23 1050 0 5900 457 141 23 0 0 5900 457 141 23 0 0 5900 457 141 23 0 0 5900 457 141 23 0 0 5900 457 1450 0 5900 457 1457 1050 0 5900 457 1457 1050 0 5900 457 1457 1050 0 5900 457 1457 1050 0 5900 457 1457 1050 0 5900 457 1457 1050 0 5900 457 141 1050 0 5900 457 141 1050 0 5900 457 141 1050 0 5900 457 141 1050 0 5900 457 141 1050 0 5900 457 141 1050 0 5900 457 141 123 0 0 403 62 5966 5966 597 147 147 147 147 147 147 147 14	0 0 53374 66780 11333 7330 4503 417 1562 78984 223285 0 220076 247497 0 247497 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 124164 108421 124164 0 0 232585 60731 9631 9631 9631	41.8 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV4 SUB TOTAL HV4	(B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(i) (ii) (iii) (iv) (iv) (iv) (iv) (iv) (vi) (vi) Total P D D D D D D D D D D D D D	Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner DepartMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply above 66kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV Tro Traction RAILWAY TRACTION (HV-3) ply at 11kV ply above 66kV and upto 132kV TION & P. CANAL ABOVE 100 BHP (75 kW) (HV-4) STATE & OTHERS EXTRA STATE CONSUMERS	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 1050 0 533 233 1050 0 533 23 1050 0 53000 0 403 0 44 4 4 1	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 0 14897 5044 537513 537513 537606 0 0 1559261 127128 57606 0 0 89318 37872 2438176 108421 124164 0 232585 83345 60731 9631 154207 7909 7909 7909	41.8 78.5 78.5 19.3.5 14.4 7.8. 14.4 7.8. 15.7 15.7 15.7 15.7 15.7 15.7 15.7 15.
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL HV4 SUB TOTAL BULK	(B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(i) (ii) (iii) (iv) (iv) (v) Total P D D D D D D D D D D D D D	Class II Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent CGM/GM & Equivalent CGM/GM & Equivalent CGM/GM & Equivalent posts and above tensioner & Family Pensioner EPA RTMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply at 30 kV & above NON INDUSTRIAL BULK LOADS (HV-1) Schedule For supply above 11kV and upto & Including 132kV For supply above 11kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV tro Traction RAILWAY TRACTION (HV-3) ply above 11kV and upto 66kV ply above 11kV and upto 66kV ply above 11kV and upto 132kV tro	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 167 0 0 533 233 1050 0 5900 457 141 233 0 0 5900 457 141 233 0 5900 457 141 233 0 5900 457 141 233 0 5900 457 141 233 0 5900 457 141 123 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 5900 457 141 141 233 0 0 403 628 533 0 0 403 628 533 0 0 403 628 533 0 0 403 628 533 0 0 403 628 533 0 0 403 628 533 0 0 403 628 6986 53 3 0 0 457 4 4 4 4 4 4 4 4 4 4 4 4 4	0 53374 65780 11333 7330 4503 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 5044 537513 0 14897 5044 537513 0 1559261 566991 127128 57606 0 89318 37872 2438176 108421 124164 0 232585 83845 60731 1424207 7909 7909 45000 1455618	41.8 78.5 78.5 19.3 14.4 7.8 11.5 154.7 328.9 0.0 621.0 648.5 0.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 380.0 372.4 372.4 6776.6 372.4 372.5
SUB TOTAL HV1 SUB TOTAL HV2 SUB TOTAL HV3 SUB TOTAL SUB TOTAL XTRA STATE SUB TOTAL	(B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(i) (ii) (iii) (iv) (iv) (iv) (iv) (iv) (vi) (vi) Total P D D D D D D D D D D D D D	Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and above ensioner & Family Pensioner DepartMENTAL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply above 66kV and upto & Including 66kV For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) ply at the above 132kV Tro Traction RAILWAY TRACTION (HV-3) ply at 11kV ply above 66kV and upto 132kV TION & P. CANAL ABOVE 100 BHP (75 kW) (HV-4) STATE & OTHERS EXTRA STATE CONSUMERS	14568 19903 2984 2236 1180 87 512 30737 72207 0 807 1050 0 533 233 1050 0 533 23 1050 0 53000 0 403 0 44 4 4 1	0 53374 65780 11333 7330 4503 417 1562 78984 223285 0 270076 247497 0 247497 0 247497 0 247097 5044 537513 537513 537606 0 0 1559261 127128 57606 0 0 89318 37872 2438176 108421 124164 0 232585 83345 60731 9631 154207 7909 7909 7909	41.8 78.5 19.3 14.4 7.8 10.0 11.5 154.7 328.9 0.0 621.0 648.9 0.0 0 39.0 13.2 1322.1 0.0 3363.3 2040.9 1322 1322.1 1322.1 0.0 3363.3 2040.9 158.2 6776.6 372.4 0.0 0.0 188.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0

Table 3-5: Actual Billing Determinants for FY 10: Consolidated DisCom

SUPPLY TYPE	сатб.	CONSOLIDATED DISCOM FY 2010-11	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	ESTIMATED BILLED ENERGY (MU)
LMV1	(A)	Consumer getting supply as per "Rural Schedule" (i) Un-metered	3719747	5942597	5017.6
		(i) Metered	1045854	1427716	1413.1
	(B)	Supply at Single Point for Bulk Load	25347	154751	309.9
	(C1) (C2)	Other Metered Domestic Consumers Life Line Consumers/BPL	3904610 249655	7374045 213110	9477.9 219.1
SUBTOTAL	()	DOMESTIC LIGHT FAN & POWER (LMV-1)	8945212		16438
LMV2	(A)	Consumer getting supply as per "Rural Schedule"	20200	145005	104.0
		(i) Un-metered (ii) Metered	78788 205338	145385 477823	134.0 638.5
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	9290	18648	24.7
SUBTOTAL	(C)	Other Metered Non-Domestic Supply NON DOMESTIC LIGHT FAN & POWER (LMV-2)	764453 1057869	1863392 2505248	2408.4 3206
LMV3	(A)	Un-metered Supply	1037803	£JUJ248	3200
		(i) Gram Panchyat	1060	6164	27.0
		(ii) Nagar Palika & Nagar Panchyat (iii) Nagar Nigam	5336	39513 15606	124.0 87.0
	(B)	Metered Supply	141	13000	01.0
		(i) Gram Panchyat	23		4.4
		(ii) Nagar Palika & Nagar Panchyat (iii) Nagar Nigam	327 1240	17804 73309	85.0 264.2
SUBTOTAL		PUBLIC LAMPS (LMV-3)	8127	152876	592
LMV4	(A)	Public Institution(4 A)	31786	327746	986.7
SUBTOTAL	(B)	Private Institution(4 B) LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	15001 46787	101917 429662	226.4 1213
LMV5	(A)	Rural Schedule			
		(i) Un metered Supply	728909	3846051	4199.3
	(B)	(ii) Metered Supply Urban Schedule	20752	116614	299.8
		(i) Metered Supply	51522	330951	772.9
SUB T OT AL	(A)	PRIVATE T UBE WELL/PUMPING SETS (LMV-5)	801183	4293616	5272
LMV6	(A)	Small & Medium Power (Power Loom) (i) Rural Schedule	14858	103595	178.5
		(ii) Urban Schedule	20534	153331	226.9
	(B)	Small & Medium Power	00755	000.150	286.6
		(i) Rural Schedule (ii) Urban Schedule	33755 82624	260458 977873	286.6
SUBTOTAL		SMALL & MEDIUM POWER UPT O 100 HP (75) (LMV-6)	151771	1495258	2172
LMV7	(A)	Rural Schedule (i) Jal Nigam	1770	40005	150.6
		(i) Jal Sansthan	<u>1776</u> 475	46665 18892	67.4
		(iii) Others (Water Works)	577	13605	40.7
	(B)	Urban Schedule (i) Jal Nigam	971	27794	135.8
		(i) Jal Sansthan	1937	83365	430.4
		(iii) Others (Water Works)	2316		276.4
SUB TOTAL LMV8	(A)	PUBLIC WATER WORKS(LMV-7) Metered Supply	8051 2331	263680 49510	210.9
LMVO	(A) (B)	Un-metered Supply	2551	45510	210.0
		(i) STW, Panchay at Raj WB I. Duch P.C, L I upto 100 BHP	29664	380422	1589.1
SUBTOTAL	ST	(ii) Laghu Dal Nahar above 100 BHP ATE T UBE WELLS & PUMPS CANAL UPT O 100 HP(LMV-8)	254 32249	16785 446716	66.8 1867
LMV9	(A)	Metered Supply			
		(i) Individual Residential Consumers (ii) Others	707.38125	12621	11.6
	(B)	Un-metered Supply	2936	17037	33.0
		(i) Ceremonies	53	973	1.2
SUBTOTAL		(ii) Temporary Shops TEMPORARY SUPPLY (LMV-9)	38 3734	220 30851	1.3
LMV10	(A)	Serving	5754	50051	
		(i) Class IV Employees	15033	37816	42.5
		(ii) Class III Employees (iii) Junior Engineers & Equivalent	20390 2227	69176 8772	80.5
		(iv) Assistant Engineers & Equivalent	1337	4846	11.2
		(v) Executive Engineers & Equivalent	1235	4085	8.0
		(vi) Deputy General Manager & Equivalent (vii CGM/GM & Equivalent posts and above	73	405	1.3
	(B)	Total Pensioner & Family Pensioner	36724	98755	184.6
SUBTOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	77059	224095	354
HV1	(A)	Urban Schedule (i) For supply at 11kV	953	345518	806.5
		(i) For supply at 11kV (ii) For supply at 33 kV & above	226		439.1
	(B)	Rural Schedule			
		(i) For supply at 11kV (ii) For supply at 33 kV & above	642	144102 56432	87.9
SUBTOTAL		NON INDUST RIAL BULK LOADS (HV-1)	1870	775715	1362
HV2	(A)	Urban Schedule			
		(i) For supply at 11kV (ii) For supply above 11kV and upto & Including 66kV	6078 386	1595140 736096	4353.2
		(iii) For supply above 66kV and upto & Including 132kV	386	169679	272.4
		(iv) For supply above 132kV	8		248.
	(B)	Rural Schedule (i) For supply at 11kV	448	107640	325.0
		(ii) For supply above 11kV and upto & Including 66kV	321	537882	209.5
SUBTOTAL		ARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	7355	3211614	806 4
HV3	(A) (B)	For supply at and above 132kV For supply below 132kV	7	117846 131928	418.4
	(B) (C)	ForDelhi Metro Rail	1		16.0
SUBTOTAL		RAILWAY TRACTION (HV-3)	11	256074	723
HV4	(A) (B)	For supply at 11kV For supply above 11kV and upto 66kV	88 18		379.3
	(C)	For supply above 66kV and upto 132kV	2		28.
SUBTOTAL		F IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	108	157773	73
	(A)	EXTRA STATE & OTHERS	4	8113 8113	58.
EXT RA STATE	(4)	EXTRA STATE CONSUMERS			
	(A)	EXTRA STATE CONSUMERS NPCL	4		365.1
EXTRA STATE SUBTOTAL BULK		NPCL KESCO	1	45000 1547751	365.1 3027.0
EXTRA STATE SUBTOTAL	(A)	NPCL	1	45000 1547751	365.1

Table 3-6: Estimated Billing Determinants for FY 11: Consolidated DisCom

TYPE LMV1	CATG.	Consu	CONSOLIDATED DISCOM FY 2011-12 mer getting supply as per "Rural Schedule"	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED ENERGY BILLED (MU)
	<i>(~)</i>	(i)	Un-metered	4257607	6710621	5798.0
		(ii)	Metered	1145166	1569858	1632.0
	(B) (C1)		y at Single Point for Bulk Load Metered Domestic Consumers	56786 4931330	189685 8636928	371.5 11768.2
	(C2)	Life Li	ne Consumers/BPL	326346	263940	289.3
SUBTOTAI LMV2			STIC LIGHT FAN & POWER (LMV-1) mer getting supply as per "Rural Schedule"	10717235	17371032	19859
LMV2	(A)	(i)	mer getting supply as per "Rural Schedule" Un-metered	0 99305	0 187891	0.0 165.7
		(ii)	Metered	307336	616284	881.7
	(B)		e Advertising/Sign Post/Sign Board/Glow Sign/I	11137	20335	37.8
SUB TOTAI	(C)		Metered Non-Domestic Supply MESTIC LIGHT FAN & POWER (LMV-2)	854194 1271972	2037607 2862118	2772.4
LMV3	(A)		etered Supply	0	0	0.0
		(i)	Gram Panchyat	1179	7522	29.2
		(ii) (iii)	Nagar Palika & Nagar Panchyat Nagar Nigam	5389 271	39846 17500	137.7
	(B)		ed Supply	0	0	0.0
		(i)	Gram Panchyat	24	556	7.1
		(ii)	Nagar Palika & Nagar Panchyat	356	19790	96.7
SUBTOTAI		(iii)	Nagar Nigam PUBLIC LAMPS (LMV-3)	1734 8952	139279 224494	890
LMV4	(A)	Public	Institution(4 A)	32268	332492	1019.3
	(B)		e Institution(4 B)	15541	105976	243.2
			& POWER FOR PUB./PRIV. INST.(LMV-4)	47809	438468	1263
LMV5	(A)	(i)	Schedule Un metered Supply	0 795630	0 4167558	0.0
		(ii)	Metered Supply	24582	137724	355.9
	(B)		Schedule	0	0	0.0
SUB T OT AI	DP	(i)	Metered Supply TUBE WELL/PUMPING SETS (LMV-5)	60143	384223 4689505	893.7
LMV6	(A)		& TUBE WELL/PUMPING SETS (LMV-5) & Medium Power (Power Loom)	880355 0	4689505	5850 0.0
2	,	(i)	Rural Schedule	17525	123262	204.7
		(ii)	Urban Schedule	22088	169904	247.0
	(B)		& Medium Power	0	0	0.0
		(i) (ii)	Rural Schedule Urban Schedule	40121 93476	293550 1083352	345.6
SUB T OT A I	SMALI		CDIUM POWER UPT O 100 HP (75) (LMV-6)	173209	1670069	2543
LMV7	(A)		Schedule	0	0	0.0
		(i) (ii)	Jal Nigam	2049	52647	186.7 80.7
		(iii)	Jal Sansthan Others (Water Works)	524 674	20969 15425	49.3
	(B)		Schedule	0	0	0.0
		(i)	Jal Nigam	1015	32533	168.8
		(ii)	Jal Sansthan	2770	114221	683.7
		(iii)	Others (Water Works) UBLIC WAT ER WORKS(LMV-7)	2727	86537	360.6 1530
IIB T OT A I						
SUBTOTAI LMV8	(A)		ed Supply	9759 3373	322332 72555	299.7
	(A) (B)	Meter	ed Supply etered Supply	3373 0	72555 0	299.7 0.0
		Meter Un-me (i)	ed Supply etered Supply STW,Panchayat Raj WB I.Duch P.C, L I-upto 10	3373 0 43060	72555 0 566836	299.7 0.0 1840.8
LMV8	(B)	Meter Un-me (i) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I.Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP	3373 0 43060 358	72555 0 566836 20323	299.7 0.0 1840.8 87.9
LMV8	(B)	Meter Un-ma (i) (ii) UBE W	ed Supply etered Supply STW,Panchayat Raj WB I.Duch P.C, L I-upto 10	3373 0 43060	72555 0 566836	299.7 0.0 1840.8 87.9
LMV8 SUB T OT A I	(B)	Meter Un-ma (i) (ii) UBE W Meter (i)	ed Supply stered Supply STW.Panchayat Raj WB I.Duch P.C, L.I. upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LMY ed Supply Individual Residential Consumers	3373 0 43060 358 46792 0 711	72555 0 566836 20323 659714 0 12641	299.7 0.0 1840.8 87.9 2228 0.0 25
LMV8 SUB T OT A I	(B) ATET (A)	Meter Un-ma (i) (ii) UBE W Meter (i) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM ed Supply Individual Residential Consumers Others	3373 0 43060 358 46792 0 711 3286	72555 0 566836 20323 659714 0 12641 20055	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3
LMV8 SUB T OT A I	(B)	Meter Un-ma (i) (ii) UBE W Meter (i) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I.Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP <i>I</i> ELLS & PUMPS CANAL UPTO 100 HP(LM ed Supply Individual Residential Consumers Others stered Supply	3373 0 43060 358 46792 0 711 3286 0 0	72555 0 566836 20323 659714 0 12641 22055 0 0	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3
LMV8 SUBTOTAI LMV9	(B) ATET (A)	Meter Un-ma (i) (ii) UBE W Meter (i) (ii) Un-ma (i) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I.Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Ceremonies Temporary Shops	3373 0 43060 358 46792 0 711 3286 0 0 55 47	72555 0 566836 20323 659714 0 12641 20055 0 0 1017 290	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 3.5
LMV8 SUBTOTAI LMV9 SUBTOTAI	(B) ATET (A) (B)	Meter Un-ma (i) (ii) UBE W Meter (i) (ii) Un-ma (i) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I.Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP PELLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9)	3373 0 43060 358 46792 0 711 3286 0 0 55 47 47 4099	72555 0 566836 20323 659714 0 12641 22055 0 1017 290 34003	299.7 0.0 1840.8 87.9 2228 0.0 253 36.3 0.0 1.2 3.5 66
LMV8 SUBTOTAI LMV9	(B) ATET (A)	Meter- Un-mo (i) (ii) UBE W Meter- (i) (ii) Un-mo (i) (ii) (ii)	ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM ed Supply Individual Residential Consumers Others stered Supply Ceremonies Temporary Shops EMPORARY SUPPLY (LMV-9) 18	3373 0 43060 338 46792 0 711 3286 0 55 55 47 47 4099 0 0 0	72555 0 566836 20323 659714 0 12641 20055 0 1017 290 34003 0 0	299.7 0.0 1840.8 87.9 2228 0.0 0.0 25 36.3 0.0 1.2 3.5 66 6 0.0 0.0
LMV8 SUBTOTAI LMV9 SUBTOTAI	(B) ATET (A) (B)	Meter Un-ma (i) (ii) UBE W Meter (i) (ii) Un-ma (i) (ii)	ed Supply tered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP PELLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) 19 Class IV Employees	3373 0 43060 3358 46792 0 711 3286 0 55 477 4099 0 15274	72555 0 566836 20323 659714 0 12641 20055 0 0 1017 2900 34003 0 0 0 40367	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 36 .3 0.0 0.0 1.2 3.5 66 0.00 45.8
LMV8 SUBTOTAI LMV9 SUBTOTAI	(B) ATET (A) (B)	Meter- Un-mo (i) (ii) UBE W Meter- (i) (ii) (ii) Un-mo (i) (ii) (iii) (iii) (iii)	ed Supply stered Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Others tered Supply Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) B Class IV Employees Class III Employees Junior Engineers & Equivalent	3373 0 43060 338 46792 0 711 3286 0 0 55 47 47 4099 0 0 15274 21847 2245	72555 0 566836 20323 659714 0 12641 20055 0 1017 290 34003 0 40367 73336 8854	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 0.2 5 36.3 0.0 0.1.2 3.5 66 0.0 0.0 1.2 3.5 66 0.0 0.0 1.5.7
LMV8 SUBTOTAI LMV9 SUBTOTAI	(B) ATET (A) (B)	Meter- Un-ma (i) (ii) UBE W Meter- (i) (ii) (ii) (ii) (iii) (iii) (iii) (iii) (iv)	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) og Class IIV Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448	72555 0 566836 20323 659714 0 12641 20055 0 1017 290 34003 0 40367 73336 8854 5229	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.9 15.7 11.7
LMV8 SUBTOTAI LMV9 SUBTOTAI	(B) ATET (A) (B)	Meter Un-mo (i) UBE W Meter (i) (ii) Un-mo (i) (ii) Servin (i) (ii) (ii) (iii) (iii	ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM ed Supply Individual Residential Consumers Others Stered Supply Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) g Class IV Employees Class II Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent	3373 0 43060 338 46792 0 711 3286 0 55 47 47 4099 0 0 15274 21847 21847 2245 1448 1255	72555 0 566836 20323 659714 0 12641 20055 0 1017 2990 34003 0 40367 73336 8854 5229 4511	299.7 0.0 1840.8 87.9 2228 0 0 0 0 25 36.3 0.0 1.2 3.5 66 0 0.0 45.8 87.8 87.9 15.7 11.9 9.4
LMV8 UBTOTAI LMV9	(B) ATET (A) (B)	Meter- Un-ma (i) (ii) UBE W Meter- (i) (ii) (ii) (ii) (iii) (iii) (iii) (iii) (iv)	ed Supply tered Supply STW.Panchayat Raj WB I.Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP RELLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Others Temporary Shops FEMPORARY SUPPLY (LMV-9) og Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448	72555 0 566836 20323 659714 0 12641 20055 0 1017 290 34003 0 40367 73336 8854 5229	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.9 15.7 11.7
LMV8 UBTOTAI LMV9	(B) ATET (A) (B)	Meter Un-mo (i) (ii) (iii) Meter (i) (iii) Un-mo (i) (iii) (iii) Servin (i) (iii) (iv)	ed Supply stered Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP 7ELLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) g Class IV Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner	3373 0 43060 338 46792 0 711 3286 0 55 47 47 4099 0 15274 21847 2245 1448 1255 112 86 46057	72555 0 566836 20323 659714 0 12641 20055 0 1017 290 34003 0 40367 73336 8854 5229 4511 575 303 121011	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.8 87.8 15.7 11.5,7 11.5,7 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (A) (B) (B)	Meter- Un-ma (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (v) (v) (vi) (vi	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) og Class IIV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy Ceneral Manager & Equivalent CGM/GM & Equivalent posts and above Pensioner & Family Pensioner	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448 1255 1148 1255 112 86 46057 88324	72555 0 5666836 20323 659714 0 12641 20055 0 1017 2990 34003 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 0,1 1,2 3,5 66 0,0 0,1 1,2 3,5 66 0,0 0,1 1,2 3,5 66 0,0 0,1 1,2 3,5 66 0,0 0,1 1,2 3,5 66 0,0 0,0 0,1 0,0 0,0 0,0 0,0 0,0
LMV8 UBTOTAI LMV9	(B) (A) (A)	Meter- Un-ma (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (v) (v) (vi) (vi	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FELLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Class IV Employees Class II Employees Class II Employees Class II Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent pensioner PET MENT AL EMPLOYEES (LMV-10) Schedule	3373 0 43060 338 46792 0 711 3286 0 55 407 4099 0 15274 2245 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 1448 1255 125 125 125 125 125 125 12	72555 0 566836 20323 659714 0 12641 20055 0 1017 2990 34003 0 40367 73336 8854 5229 4511 575 303 121011 2254187 0 0 0 0 0 0 0 0 0 0 0 0 0	299.7 0.0 1840.8 87.5 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 15.7 11.5 9.4 242.2 242.2 242.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (A) (B) (B)	Meter- Un-ma (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (v) (v) (vi) (vi	ed Supply stered Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Coremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) B Class IV Employees Class III Employees Class III Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448 1255 1148 1255 112 86 46057 88324	72555 0 5666836 20323 659714 0 12641 20055 0 1017 2990 34003 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187	299.7 0.0 1840.8 87.5 2228 0.0 25 36.3 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 15.7 11.5 9.4 242.2 427 427 0.0 242.5 427 11.5
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (A) (B) (B)	Meter Un-me (i) (ii) (iii) (iv) (vi) (viii) Total I DEPA Urban (ii) (iii)	ed Supply stered Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FELLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Class IV Employees Class IV Employees Class III Employees Junior Engineers & Equivalent Executive Engineers & Equivalent CGM/CM & Equivalent posts and above Pensioner & Family Pensioner RTMENT AL EMPLOY EES (LMV-10) Schedule For supply at 33 kV & above Schedule	3373 0 43060 338 46792 0 711 3286 0 0 55 47 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 86324 0 1110 0 1110 0	72555 0 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 3667838 0	299.7 0.0 1840.8 87.5 2228 0.0.0 255 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 15.7 11.5 242.2 242.2 242.2 242.2 0.0 0.0 855.8 443.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (B) (A) (B) (A)	Meter. Un-me (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (vi) (vii) (viii) (viii) DEPA Urban (i) (ii) (iii)	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 33 kV & above Schedule For supply at 11kV	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 86 46057 88327 0 0 1110 1457 0 0	72555 0 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 366471 367838 0 148112	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 0,0 1,2 3,5 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (B) (A) (B) (A)	Meter Un-me (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (ivi) (vi) (vii) Total 1 DEPAA (iii) (iii) (iii) (iii)	ed Supply streed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Coremonies Temporary Shops EMPORARY SUPPLY (LMV-9) g Class IV Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CCM/GM Equivalent persioner RTMENT AL EMPLOYEES (LMV-10) Schedule For supply at 33 kV & above Schedule For supply at 33 kV & above	3373 0 43060 338 46792 0 0 711 3286 0 0 55 47 47 4099 0 0 15274 21847 2245 1428 12847 2245 1428 1255 112 866 46057 88324 0 11110 457 6667 53	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 3658731 866471 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678731 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3678751 3679751 367951 367951 36795	299.7 0.0 1840.8 87.5 2228 0.0 0.0 25 36.3 0.0 1.2 3.5 66 0.0 0.0 45.8 87.5 15.7 11.5 242.2 242.2 242.2 242.2 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10	(B) (A) (A) (B) (A) (B) (A)	Meter Un-me (i) (iii) UBE W (iii) Un-me (iii) Un-me (iii) Un-me (iii) (iii) (iii) (iii) (iii) (iii) (iv) (vi) (vii) Total Urban (i) (ii) (iii) NON	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops Class IV Employees Class III Employees Class III Employees Junior Engineers & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 33 kV & above Schedule For supply at 11kV	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 86 46057 88327 0 0 1110 1457 0 0	72555 0 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 366471 367838 0 148112	299.7 0.0 1840.8 87.5 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 15.7 11.5 242.2 427 0.0 85.5 843.8 0.0 45.8 87.5 15.7 11.2 11.5 87.5 15.7 11.2 15.7 11.2 15.7 15.7 15.7 11.2 15.7 11.2 15.7 15
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1	(B) (A) (B) (A) (B) (A) (B) (A) (B)	Meter Un-me (i) (iii) UBE W (iii) Un-me (iii) Un-me (iii) Un-me (iii) (iii) (iii) (iii) (iii) (iii) (iv) (vi) (vii) Total Urban (i) (ii) (iii) NON	ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM ed Supply Individual Residential Consumers Others stered Supply Caremonies Temporary Shops FLMPORARY SUPPLY (LMV-9) g Class IV Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Deputy General Manager & Equivalent CGM/CM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 31 kV & above Schedule For supply at 11 kV For supply at 11 kV	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1285 112 8 86 46057 88324 0 1110 4657 88324 0 0 1110 457 88324 0 0 1110 457 88324 0 0 1110 88324 0 0 1110 88324 0 0 1110 88324 0 0 1110 88324 0 0 1110 88324 0 0 1110 88324 0 0 112 88324 0 0 112 88324 0 0 122 88 88 88 824 0 0 112 88 88 824 0 0 122 88 88 88 88 88 88 88 88 88 88 88 88 8	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 3667838 0 148112 64302 946722 0 1656193	299.7 0.0 1840.8 87.5 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 15.7 11.5 242.2 242.2 242.2 11.1 11.5 242.2 3.5 0.0 0.0 0.0 0.0 25 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1	(B) (A) (B) (A) (B) (A) (B) (A) (B)	Meter Un-md (i) (ii) UBE W Meter (i) (ii) (ii) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (v) (vi) (vi	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) O Class II Employees Class III Employees Class III Employees Junior Engineers & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 0 1110 4457 0 667 53 2286 0 0 0 1110 457 0 0 667 53 53	72555 0 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 1017 2900 34003 0 40367 73336 8854 525 303 121011 254187 0 366471 367838 0 366471 367838 0 366472 0 3664722 0 0 148112 64302 946722 0 1656193 772579	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 0,0 1,2 3,5 66 0,0 0,0 0,0 0,0 0,0 0,0 0,0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1	(B) (A) (B) (A) (B) (A) (B) (A) (B)	Meter- Un-mai (i) (ii) (iii) (iii) (iii) Un-mai (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) NON (iii) (ii	ed Supply estered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Cremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) 10 Class IV Employees Class II Employees Cass II Lable Consumers CEM/GM & Equivalent Deputy General Manager & Equivalent Deputy General Manager & Equivalent For supply at 33 kV & above Ponsioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 31 kV For supply at 31 kV For supply at 11 kV For supply at 0000 For supply at 11 kV For supply at 0000 For supply at 11 kV For supply at 0000 For supply at 0	3373 0 43060 338 46792 0 0 711 3286 0 55 47 4099 0 15274 2245 1428 1255 112 866 46057 88324 0 1110 4557 865 46057 88324 0 1110 4557 865 46057 88324 0 1110 4557 865 46057 88324 0 0 1110 1115 1125 865 46057 88324 0 0 1110 1115 1125 1125 865 46057 88324 0 0 1110	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 367838 0 148112 64302 946722 0 1656193 772579	299.7 0.0 1840.8 87.5 2228 0.0 0.0 25 36.3 0.0 1.2 3.5 66 0.0 0.0 1.2 3.5 66 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1	(B) (A) (B) (A) (B) (A) (B) (A) (B)	Meter Un-mot (i) (ii) (iii)	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) O Class II Employees Class III Employees Class III Employees Junior Engineers & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV	3373 0 43060 358 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 0 1110 4457 0 667 53 2286 0 0 0 1110 457 0 0 667 53 53	72555 0 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 1017 2900 34003 0 40367 73336 8854 525 303 121011 254187 0 366471 367838 0 366471 367838 0 366472 0 3664722 0 0 148112 64302 946722 0 1656193 772579	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 0,0 1,2 3,5 66 0,0 45,8 87,5 11,5 9,4 22,7 11,5 242,2 427 0,0 855,8 443,8 0,0 8,5 8,7 11,5
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1	(B) (A) (B) (A) (A) (B) (A) (A)	Meter Un-md (i) (ii) Un-md (i) (iii) Un-md (i) (iii) (iii) (i) (ii	ed Supply ed Supply Structure Struct	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1255 112 1847 2245 1448 2245 1144 866 46057 88324 0 1110 46057 88324 0 0 1110 457 667 53 2286 0 0 6289 591 151 151 20 0 0 0 0	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5259 4511 575 303 121011 254187 0 366471 366471 366471 366471 366471 367838 0 148112 64302 946722 0 1656193 772579 172575 66723 0 0 111882	299.7 0.0 1840.8 87.5 2228 0.0 25 36.3 36.3 0.0 1.2 3.5 66 0.0 45.8 87.5 11.5 9.4 242.2 427 0.0 855.8 443.8 0.0 87.5 15.7 11.5 11
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2	(B) (A) (B) (A) (B) (B) (A) (B) (A) (B) (B) (B)	Meter Un-ma (i) (ii) Un-ma (i) (ii) (iii) Un-ma (i) (iii)(iii) (ii	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) Ig Class III Employees Class III Employees Class III Employees Junior Engineers & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above INDUST RI AL BULK LOADS (HV-1) Schedule For supply at 11kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 1 For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply above 11kV Schedule For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply above 11kV Schedule For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply at 11kV For supply above 11kV For supply at 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply a	3373 0 43060 338 46792 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 155 4099 0 15274 21847 2245 1125 1448 1255 112 86 46057 8832 86 46057 8852 86 667 53 2286 0 0 667 53 2286 0 0 667 53 2286 0 0 667 53 2286 0 0 667 55 55 112 86 115 125 112 86 115 115 115 1148 1255 112 86 46057 8852 8852 8852 1110 1110 115 115 115 115 115 1	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 367838 0 148112 64302 946722 0 1656193 772579 172075 66723 0 0 111882 95283	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 1,2 3,5 66 0,0 0,0 0,0 1,2 3,5 66 0,0 0,0 0,0 0,0 0,0 0,0 0,0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2	(B) (A) (A) (A) (B) (A) (A) (B) (A) (B) (B) (A)	Meter- Un-mai (i) (ii) (iii) (iii) Un-mai (iii) Un-mai (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) NON (iii) (iii) (iii) (iii) NUrban (iii) (iii) (iii) (iii) (iii) (iii) (iii) NUrban (iii) (iii) (iii) (iii) NUrban (iii) (iii) (iii) NUrban (iii) (iii) (iii) NUrban (iii) (iii) (iii) (iii) NUrban (iii) (ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) g Class IV Employees Junior Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 31 kV & above Schedule For supply at 33 kV & above INDUST RIAL BULK LOADS (HV-1) Schedule For supply at 31 kV above Schedule For supply at 31 kV For supply at 31 kV For supply at 11kV For supply at 31 kV above INDUST RIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply above 66kV and upto & Including 10 For supply above 132kV Schedule For supply at 11kV For supply above 11kV and upto & Including 10 For supply above 11kV and upto & Including 66 V POWER ABOVE 100 BHP (75 kW) (HV-	3373 0 43060 338 46792 0 0 711 3286 0 55 47 4099 0 15274 2245 1428 1255 112 866 46057 88324 0 1110 46057 88324 0 1125 866 46057 88324 0 1110 667 8332 2286 0 0 667 3332 2286 0 0 667 3332 2286 0 0 667 3332 2286 0 0 667 3332 2286 0 0 667 3332 2286 0 0 1110 110 110 110 110 110	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 367838 0 0 148112 64302 946722 0 1656193 772579 66723 0 0 111882 95283 0 0 111882 95283 0 0 111882 95283 0 0 111882 95283 0 0 0 0 0 0 0 0 0 0 0 0 0	299.7 0.0 1840.8 87.5 2228 0.0 0.0 22 36.5 36.5 36.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 37
LMV8 UBTOTAI LMV9 UBTOTAI HV10 UBTOTAI HV1	(B) (A) (B) (A) (B) (B) (A) (B) (A) (B) (B) (B)	Meter Un-ma (i) (ii) (ii) (ii) (ii) (ii) (iii)) (iii) (iii) (iii) (iii)(ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) Ig Class III Employees Class III Employees Class III Employees Junior Engineers & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above INDUST RI AL BULK LOADS (HV-1) Schedule For supply at 11kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 1 For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply above 11kV Schedule For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply above 11kV Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply above 11kV Schedule For supply above 11kV For supply at 11kV For supply at 11kV For supply at 11kV For supply above 11kV For supply at 11kV For supply at 11kV For supply at 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply at 11kV For supply above 11kV For supply at 11kV For supply above 11kV For supply above 11kV For supply above 11kV For supply	3373 0 43060 338 46792 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 155 4099 0 15274 21847 2245 1125 1448 1255 112 86 46057 8832 86 46057 8852 86 667 53 2286 0 0 667 53 2286 0 0 667 53 2286 0 0 667 53 2286 0 0 667 55 55 112 86 115 125 112 86 115 115 115 1148 1255 112 86 46057 8852 8852 8852 1110 1110 115 115 115 115 115 1	72555 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 367838 0 148112 64302 946722 0 1656193 772579 172075 66723 0 0 111882 95283	299.7 0.0 1840.8 87.5 2228 0.0 225 36.5 36.5 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2 UBTOTAI HV2	(B) (A) (B) (A) (A) (A) (B) (A) (B) (A) (A) (B) (A) (A) (A) (A)	Meter Un-md (i) (ii) (ii	ed Supply ed Supply StrW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM ed Supply Individual Residential Consumers Others Coremonles Temporary Shops FEMPORARY SUPPLY (LMV-9) og Class IIV Employees Class III Employees Class III Employees Class III Employees Class III Engineers & Equivalent Executive Engineers & Equivalent CGM/CM & Equivalent posts and above Pensioner & FamIly Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above INDUST RIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply at 33 kV above INDUST RIAL BULK LOADS (HV-1) Schedule For supply at 11kV For supply at 21kV For supply at 21kV For supply at 21kV For supply at 21kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 66 For supply at 21kV For supply at 21kV For supply at 21kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 66 VY POWER ABOVE 100 BHP (75 kW) (HV pply at and above 132kV Shedule For Supply at 21kV For supply above 11kV and upto & Including 66 VY POWER ABOVE 100 BHP (75 kW) (HV pply below 132kV bin Metro Rail	3373 0 43060 338 46792 0 711 3286 0 55 47 4099 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 0 0 1110 4857 88324 0 0 1110 4657 88324 0 0 1110 4657 88324 0 0 1110 4857 2286 2386 20 86 4857 20 667 853 2286 0 0 667 853 2286 0 0 67 853 2286 0 7 3 3 20 0 7 3 3 3 1	72555 0 0 566836 20323 659714 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 40367 73336 8854 5229 40367 73336 8854 5229 0 40367 73336 8854 5229 0 40367 73336 8854 0 40367 77336 8854 0 12161 575 66723 0 111882 95283 2874735 66723 0 111882 95283 2874735 119783 131928 6300	299,7,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 1,2 3,5 66 0,0 45,8 87,5 11,5 15,7 11,5 24,2,2 427 0,0 0,0 24,5,8 15,7 11,2 24,2,2 427 0,0 0,0 24,5,8 15,7 11,2 24,2,2,2 24,2,2 24,2,2,2 24,2,2,2,2,2,2 24,2,2,2,2,2,2,2,2,2,
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2 UBTOTAI HV2	(B) (A) (B) (A) (B) (B) (B) (A) (B) (C)	Meter Un-ma (i) (ii) UBE M Meter (ii) (iii) Un-ma (i) (iii)(ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) ag Class II Employees Class III Employees Class III Employees Cass III Employees Cass III Employees Cass III Employees Cass III Employees CGM/GM & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent CGM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 13k V & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV For supply at 12kV Schedule For supply at 12kV Schedule For supply at 12kV Schedule For supply at 12kV For supply at 12kV prower ABOVE 100 BHP (75 kW) (HV- pply below 132kV pply below 132kV phy below 132kV phy below 132kV	3373 0 43060 338 46792 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 75 4099 0 15274 1448 1255 1125 1448 1255 1257 128 128 128 129 128 129 128 129 128 129 128 129 129 129 129 129 129 129 129	72555 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 12071 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 366471 367838 0 148112 64302 946722 0 1656193 772579 172075 66723 66723 0 111882 95283 2874735 119785 131928 6300 258011	299.7 0.0 1840.8 87.5 2228 0.0 225 36.3 0.0 1.2 3.5 66 0.0 1.2 3.5 66 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2 UBTOTAI HV2	(B) (A) (A) (B) (A) (A) (B) (A) (B) (A) (B) (C) (C) (A)	Meter Un-md (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iii) (iiii) (iii) (iii) (i)	ed Supply ed Supply StrW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM ed Supply Individual Residential Consumers Others Stered Supply (Ceremonies Temporary Shops TEMPORARY SUPPLY (LMV-9) g Class IV Employees Class III Employees Class III Employees Glass III Employees Glass III Employees Class IV Employees Class III Employees Class III Employees Class IV Employees Class III Employees Glass III Employees Class IV Employees Class IV Employees Class IV Employees Class III Employees Class IV Employees Class IV Employees Class IV Employees Class III Employees Class IV Employees Class III Employees Class IV Employees Class III Employees Class III Employees Class IV Employees Class III Employees Pensioner & Equivalent CCM/GM & Equivalent For supply at 11kV For supply at 11kV For supply above 11kV and upto & Including 0 For supply above 132kV Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply at 21kV For supply at 21kV For supply at 21kV For supply at 21kV Fo	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 15274 21847 2245 1448 1255 112 886 46057 88324 0 1110 46057 88324 0 0 1110 457 667 53 2286 0 0 6289 591 151 151 20 0 0 485 7619 77 3 3 11 11 11 11 11 92	72555 0 5666836 20323 659714 0 12641 20055 0 121641 20055 0 121641 20055 0 121641 2005 0 0 34003 0 40367 73336 8854 5229 40367 73336 8854 121011 254187 0 366471 366471 366471 366471 366472 0 148112 64302 946722 0 14856193 772579 167275 66723 0 111882 95283 119783 31928 13928 6300 258011 85664	2995.7 0.00 1840.3 87.5 2222 0.00 223 36.5 0.00 0.13 0.00 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2 UBTOTAI HV2 UBTOTAI	(B) (A) (B) (A) (B) (B) (B) (A) (B) (C)	Meter Un-met (i) (ii) (i	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others Ceremonies Temporary Shops Cass III Employees Class III Employees Class III Employees Class III Employees Cass III Employees CGM/GM & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent Deputy General Manager & Equivalent CCM/GM & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 11kV For supply at 33 kV & above Schedule For supply at 11kV For supply at 11kV For supply at 12kV For supply at 12kV For supply at 12kV For supply at 12kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 66 For supply above 12kV Schedule For supply above 11kV and upto & Including 66 For supply above 11kV Schedule For supply above 11kV Schedule For supply above 11kV and upto & Including 66 For supply above 11kV Schedule For Supply 20000000000000000000	3373 0 43060 3388 46792 0 711 3286 0 711 3286 0 55 47 0 0 15274 21847 2245 1448 1255 112 86 46057 88324 0 1110 457 0 667 53 2286 0 0 1110 457 0 667 53 2286 0 0 1110 457 3 8 8 7 3 3 125 125 125 125 125 125 125 125	72555 0 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 1207 2900 34003 73336 8854 5229 4511 575 303 121011 254187 0 366471 366471 366471 366471 367838 0 148112 64302 946722 0 148112 64302 946722 0 11882 946722 0 111882 95283 119783 119783 131928 6300 258011 85694 772579	299.7 0.0 1840.8 87.5 2228 0.0 225 36.5 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 UBTOTAI HV2 UBTOTAI HV3 UBTOTAI HV4	(B) (A) (A) (B) (A) (A) (B) (A) (A) (A) (A) (A) (A) (A) (A) (A) (B) (C) (C)	Meter Un-ma (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) NON (iii)	ed Supply ed Supply StrW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM ed Supply Individual Residential Consumers Others Stered Supply (Ceremonies Temporary Shops TEMPORARY SUPPLY (LMV-9) g Class IV Employees Class III Employees Class III Employees Glass III Employees Glass III Employees Class IV Employees Class III Employees Class III Employees Class IV Employees Class III Employees Glass III Employees Class IV Employees Class IV Employees Class IV Employees Class III Employees Class IV Employees Class IV Employees Class IV Employees Class III Employees Class IV Employees Class III Employees Class IV Employees Class III Employees Class III Employees Class IV Employees Class III Employees Pensioner & Equivalent CCM/GM & Equivalent For supply at 11kV For supply at 11kV For supply above 11kV and upto & Including 0 For supply above 132kV Schedule For supply at 11kV For supply at 11kV For supply at 11kV For supply at 21kV For supply at 21kV For supply at 21kV For supply at 21kV Fo	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 15274 21847 2245 1448 1255 112 886 46057 88324 0 1110 46057 88324 0 0 1110 457 667 53 2286 0 0 6289 591 151 151 20 0 0 485 7619 77 3 3 11 11 11 11 11 92	72555 0 5666836 20323 659714 0 12641 20055 0 121641 20055 0 121641 20055 0 121641 2005 0 0 34003 0 40367 73336 8854 5229 40367 73336 8854 121011 254187 0 366471 366471 366471 366471 366472 0 148112 64302 946722 0 14856193 772579 167275 66723 0 111882 95283 119783 31928 13928 6300 258011 85664	2999.7 0.00 1840.3 87.5 2228 0.00 2238 0.00 0.
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV2 UBTOTAI HV2 UBTOTAI HV3 UBTOTAI HV4	(B) (A) (A) (B) (A) (A) (B) (A) (A) (A) (A) (A) (A) (A) (A) (A) (B) (C) (C)	Meter Un-md (i) (ii) (ii	ed Supply stered Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LM) ed Supply Individual Residential Consumers Others stered Supply [Caremonies Temporary Shops FEMPORARY SUPPLY (LMV-9) ag Class II Employees Class II Employees Class II Employees Junior Engineers & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent CGM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOY EES (LMV-10) Schedule For supply at 138 kV & above Schedule For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply at 31 kV For supply at 11kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Including 66 V POWER ABOVE 100 BHP (75 kW) (HV- pply below 132kV phly below 132kV phly above 11kV and upto 66kV pply above 11kV and upto 66kV pply above 11kV and upto 66kV pply above 11kV Pol X TATE & OTHERS	3373 0 43060 3388 46792 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 711 3286 0 0 15274 1428 1255 1125 1448 1255 1448 1255 1448 46057 88324 865 46057 88324 865 46057 88324 0 0 1110 1210 865 46057 88525 86526 0 0 667 533 2286 0 0 0 667 533 2286 0 0 0 667 539 591 1511 201 0 0 0 0 0 0 0 0 0 0 0 0 0	72555 0 0 566836 20323 659714 0 0 12641 20055 0 1017 2900 34003 0 40367 73336 8854 5229 4511 575 303 121011 254187 0 366471 366471 366471 366472 0 148112 64302 946722 0 1656193 772579 172075 66723 0 0 111882 945725 67755 66723 0 0 111882 95283 119785 119785 131928 6300 258011 85694 772579 12564 772579 119785 131928 6300 258011 85694 772579 12564 772579 119785 119785 119785 131928 36300 258011 85694 772579 12564 772579 12579 131928 36300 28693 15289 1	299.7 0.0 1840.8 87.5 2228 0.0 225 36.3 0.0 1.2 3.5 66 0.0 1.2 3.5 66 0.0 1.2 3.5 66 0.0 0.0 1.2 3.5 66 0.0 0.0 0.0 0.0 0.0 0.0 0.0
LMV8 UBTOTAI LMV9 UBTOTAI LMV10 UBTOTAI HV1 HV1 UBTOTAI HV2 UBTOTAI HV3 UBTOTAI HV4 UBTOTAI	(B) (A) (A) (B) (A) (B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Meter Un-md (i) (ii) (iii) (iii) Total1 (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iii) (iii)	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 100 Laghu Dal Nahar above 100 BHP FLLS & PUMPS CANAL UPT 0 100 HP(LMY ed Supply Individual Residential Consumers Others Stered Supply (Carson onles Temporary Shops FEMPORARY SUPPLY (LMV-9) og Class IIV Employees Class III Employee III K V and upto & Including 60 VY POWER ABOVE IIV Moployee IIV Pipl above IIV III Moployee II	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1255 1125 1447 2245 1448 1255 1125 886 46057 88324 0 0 1110 46057 88324 0 0 1110 46057 88324 0 0 1110 457 3 3 2286 0 0 6289 591 151 151 200 667 591 151 151 120 667 591 151 110 457 400 7 667 53 2286 0 0 6289 591 151 111 200 6289 591 151 111 200 6289 591 151 111 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 200 6289 591 151 111 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 200 629 591 151 200 647 200 647 200 200 647 200 200 647 200 200 200 200 200 200 200 200 200 20	72555 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 121641 20055 0 121641 20055 0 0 40367 73336 8854 5229 40367 73336 8854 5259 121011 254187 0 303 121011 254187 0 366471 366471 366471 366471 366471 366472 0 148112 64302 946722 0 0 14856193 772579 172079 172079 172577 172577 172577 172577 172577 172577	299,7 0,0 1840,8 87,5 2228 0,0 25 36,3 0,0 1,2 3,5 66 0,0 45,8 87,5 11,5 15,7 11,5 242,2 427 0,0 85,5 87,5 14,7 14
LMV8 UBTOTAI LMV9 SUBTOTAI LMV10 SUBTOTAI HV1 HV2 SUBTOTAI HV2 SUBTOTAI HV3 SUBTOTAI HV4 SUBTOTAI HV4	(B) (A) (B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Meter Un-met (i) (ii) (iii) Un-met (i) (iii) Un-met (i) (iiii) (ii	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP TLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Ceremonies Temporary Shops Class III Employees Class III Employees Class III Employees Class III Employees Cass III Employees CGM/GM & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Schedule For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto % Including 66 For supply above 11kV and upto 66kV pply above 66kV and upto 132kV Schedule For Supply at 11kV For Supply	3373 0 43060 3388 46792 0 711 3286 0 711 3286 0 711 3286 0 0 711 3286 0 0 15274 4099 0 0 15274 12847 2245 1448 1255 1125 1448 46057 88324 0 0 1110 457 0 667 533 2286 0 0 1110 457 0 667 533 2286 0 0 667 533 2286 0 0 1110 457 338 20 0 1120 46057 88324 0 0 1110 457 338 2286 0 0 1110 457 338 2286 0 0 1110 457 338 2286 0 0 1110 457 338 2286 0 0 1120 457 338 2286 0 0 1110 457 338 2286 0 0 1120 457 338 2286 0 0 1120 457 338 20 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1120 1100 457 338 200 0 0 667 533 200 0 0 1110 1100 1100 1100 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100 1110 1100	72555 0 0 566836 20323 659714 0 12641 20055 0 12641 20055 0 12641 20055 0 1017 2900 34003 8854 5259 3303 121011 254187 0 366471 366471 3667838 0 148112 64302 946722 0 366471 366733 0 148112 64302 946722 0 111882 95283 119783 119783 119783 119783 119785 19	299.7 0.0 1840.8 87.9 2228 0.0 25 36.3 0.0 1.2 3.5 66 0.0 0.1 1.2 3.5 66 0.0 0.0 4.5.8 87.9 1.1.7 1.1.9 4.2 2.2 0.0 855.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
LMV8 UB TOTAI LMV9 UB TOTAI LMV10 UB TOTAI HV1 UB TOTAI HV2 UB TOTAI HV3 UB TOTAI HV4 UB TOTAI CTRA STAI	(B) (A) (A) (B) (A) (B) (A) (B) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Meter Un-md (i) (ii) (iii) (iii) Total1 (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iiii) (iii) (iii) (iii)	ed Supply ed Supply STW.Panchayat Raj WB I. Duch P.C, L I upto 10 Laghu Dal Nahar above 100 BHP TLLS & PUMPS CANAL UPTO 100 HP(LM) ed Supply Individual Residential Consumers Others tered Supply Ceremonies Temporary Shops Class III Employees Class III Employees Class III Employees Class III Employees Cass III Employees CGM/GM & Equivalent Deputy Ceneral Manager & Equivalent CCM/GM & Equivalent posts and above Pensioner & Family Pensioner RT MENT AL EMPLOYEES (LMV-10) Schedule For supply at 11kV For supply at 33 kV & above Schedule For supply at 33 kV & above Schedule For supply at 11kV For supply above 11kV and upto & Including 66 For supply above 11kV and upto & Schedule For supply at 11kV For supply at 11kV For Supply at 11kV For Supply at 11kV For Supply above 11kV and upto & Schedule For supply above 11kV and upto & Schedule For supply above 11kV and upto 8 for Schedule For supply above 11kV and upto 8 for Schedule For Supply above 11kV and Upto 8 for Schedule For Supply above 11kV And Upto 8 for Schedule For Supply above 11kV For Schedule For Supply at 11kV For Schedule For Supply above 11kV For Sche	3373 0 43060 358 46792 0 711 3286 0 55 4099 0 0 15274 21847 2245 1448 1255 1125 1447 2245 1448 1255 1125 886 46057 88324 0 0 1110 46057 88324 0 0 1110 46057 88324 0 0 1110 457 3 3 2286 0 0 6289 591 151 151 200 667 591 151 151 120 667 591 151 110 457 400 7 667 53 2286 0 0 6289 591 151 111 200 6289 591 151 111 200 6289 591 151 111 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 200 6289 591 151 111 200 6289 591 151 151 200 6289 591 151 151 200 6289 591 151 200 629 591 151 200 647 200 647 200 200 647 200 200 647 200 200 200 200 200 200 200 200 200 20	72555 0 566836 20323 659714 0 12641 20055 0 121641 20055 0 121641 20055 0 121641 20055 0 0 40367 73336 8854 5229 40367 73336 8854 5259 121011 254187 0 303 121011 254187 0 366471 366471 366471 366471 366471 366472 0 148112 64302 946722 0 0 14856193 772579 172079 172079 172577 172577 172577 172577 172577 172577	299.7 0.0 1840.8 87.9 2228 0.0 0.0 25 36.3 0.0 0 1.2 3.5 66 0.0 0 45.8 87.9 15.7 11.9 9.9.4 2.1 11.9 9.242.2

Table 3-7: Projected Billing Determinants for FY 12: Consolidated DisCom

3.16 Sales Forecast by DisCom:

DisCom wise sales forecast, Energy input into DisCom & Energy procured for each DisCom are provided in following table. In the table first distribution losses based on the targets provided may be added to arrive at the estimated kWh to be delivered by UPPTCL & then transmission losses, intra as well as interstate losses, are added up to arrive at energy procured from generators. For NPCL & KesCo which are bulk supply consumer of Meerut & Agra DisCom respectively, only transmission (intra & Interstate) losses are added.

Licencsee	FY 209-10	FY 2010-11	FY 2011-12
Purchases Required & Billed Energy (MU)	61041	64888	73781
Meerut	19368	20885	24372
Agra	14025	14218	15283
Lucknow	10564	11371	13022
Varanasi	13754	14818	17394
Bulk	3329	3595	3710
Inter & Intra State Tra	nsmission Los	sses(%)	
Total Inter & Intra State Transmission Losses(%)	7.66%	5.66%	5.41%
Periphery Loss (Upto inter connection Point)	3.85%	1.73%	1.47%
Energy Available for Transmission(MU)	58693	63768	72696
Transmission losses%	3.97%	4.00%	4.00%
Input into DisCom(MU)	56365	61217	69788
Meerut	17884	19,703	23,053
Agra	12950	13,414	14,456
Lucknow	9755	10,728	12,317
Varanasi	12701	13,980	16,453
Bulk	3074	3,392	3,510
Consumer Sales (MU)	42065	46591	54176
Meerut	13007	14,876	17,695
Agra	8840	9,282	10,408
Lucknow	7546	8,368	9,731
Varanasi	9597	10,673	12,833
Bulk	3074	3,392	3,510
T&D Losses (%of net generation)	31.09%	28.20%	26.57%
Meerut	32.84%	28.77%	27.40%
Agra	36.97%	34.71%	31.90%
Lucknow	28.57%	26.41%	25.28%
Varanasi	30.23%	27.97%	26.22%
Distribution Losses (% of Energy Received)	25.37%	23.89%	22.37%
Meerut	27.27%	24.50%	23.24%
Agra	31.74%	30.80%	28.00%
Lucknow	22.64%	22.00%	21.00%
Varanasi	24.44%	23.66%	22.00%

3.17 Billing Determinants:

The detailed sub category wise data of AGRA DisCom for Current Year FY 2009-10 is placed in Table 3-9 and the detailed sub category wise parameter of Estimated FY 2011 and Projected FY 2012 are placed in Table 3-10 & Table 3-11 based on the above forecast are tabulated below.

Sec. Description Description <thdescription< th=""> <thdescription< th=""> <thdes< th=""><th>SUPPLY TYPE</th><th>CATG.</th><th></th><th>AGRA DISCOM FY 2009-10</th><th>CONSUMER (NUMBERS)</th><th>CONNECTED LOAD (KW)</th><th>UNIT SOLD (MU)</th></thdes<></thdescription<></thdescription<>	SUPPLY TYPE	CATG.		AGRA DISCOM FY 2009-10	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	UNIT SOLD (MU)
Nome Nome <th< td=""><td>LMV1</td><td>(A)</td><td></td><td>umer getting supply as per "Rural Schedule"</td><td>510820</td><td>747025</td><td>609.5</td></th<>	LMV1	(A)		umer getting supply as per "Rural Schedule"	510820	747025	609.5
City Only Material Boound: Command: BP0106 1305500 1305500 UND TOTAL SAME CALL BARDER SAME CALL BARD			~ /				579.7
Res CF Use of constraints of any sector of							16.9
SUB_TOTAL Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>							1836.2 13.5
Number of the second	SUBTOTAL	(0)					3055.9
Nome Nome <th< td=""><td></td><td>(A)</td><td></td><td></td><td></td><td></td><td></td></th<>		(A)					
····································							5.2
SUB_TOTAL DUN-3NON-DOUBTE LIGHT FINA FROM USE (MAP.3)21.4464911149111LAN-3000 <td< td=""><td></td><td>(B)</td><td></td><td></td><td></td><td></td><td>14.3</td></td<>		(B)					14.3
LAV - 3 (A)							427.8
Image: Section of the secti					215436	491111	610.6
Second			(i)	Gram Panchyat		1913	7.8
Nome Nome Nome Nome Nome Nome Nome Nome Nome Nome Nome Nome Nome SUBTOTAL Nome Nome <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>19.6</td></t<>							19.6
Part of the standard sector of the standard s		(B)			60	5010	18.3
Seture TAT. Note and Network (AAV.30) 1100 200007 INTERT OF ACT. (A) Note and Network (AAV.30) 1100 200077 2 INTERT OF ACT. (FOAV.5) FOAV.2017000 12420 13002 37855 37 INTERT OF ACT. (FOAV.5) FOAV.2017000 12420 130030 38 38 INTERT OF ACT. (FOAV.5) INTERT OF ACT. 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 1300200 13002000 130020000 1300200000 130020000000000000000000000000000000000			(i)		6		1.2
SUBLY AL ULLE CLAYS (AV.3) 1180 9007 7 LAW - LAW - LAW - CLAYS (AV.3) 070 0013 22 SUB TOTAL 1.3A - STOWLE FOR FURLCHENATE INFOLOSION (AV.3) 1430 10013 3815 501 38 LAW - 3 0.0 FURL TOTAL 1.3A - 3A 10013 815 501 38 LAW - 3 0.0 FURL TOTAL 1.3A - 3A 10013 815 501 38 COULD TOTAL 0.0 FURL TOTAL 1.3A - 3A 10013 815 501 92 100 10013							20.3
LAX-st A) Deside balanziama(A) Off 1 Off 10 Off 10 <t< td=""><td>SUBTOTAL</td><td></td><td>(III)</td><td></td><td></td><td></td><td>9.0 76.2</td></t<>	SUBTOTAL		(III)				9.0 76.2
SUB_TOY AL If, NA & ROWER FOR FIRE CARLY AT ELEMENT FUTTOR OF AL Id 200 Id 2005 Id 2005 <thid 2005<="" th=""> <thid 2005<="" th=""> <thid< td=""><td></td><td></td><td></td><td>c Institution(4 A)</td><td>6716</td><td>66143</td><td>229.5</td></thid<></thid></thid>				c Institution(4 A)	6716	66143	229.5
LAV - 5(A)Normal Subsection(A)	CUD TOTAL						76.8 306.2
Image: start is page in a st					14240	104028	306.2
m m m m m m 00 m m m m m m m m 100 0 m		, í		Un metered Supply			824.9
BURTOTADescend Supply372012500533590LMV-2(A)(A)Norther (Deven Loon)-(B)(D)(D)(D)(D)20050202(D)(D)(D)(D)(D)(D)20050202(D)(D)(D)(D)(D)(D)20050202(D)(D)(D)(D)(D)20020003000(D)(D)(D)(D)200020003000SUBTOTAL(D)(D)200020003000(D)(D)(D)200020003000(D)(D)(D)200020003000(D)(D)2000200020003000(D)(D)2000200020002000(D)(D)2000200020002000(D)(D)2000200020002000(D)20002000200020002000(D)20002000200020002000(D)2000200020002000(D)20002000200020002000(D)2000200020002000(D)2000200020002000(D)2000200020002000(D)2000200020002000(D)2000200020002000(D)200020002000<					12547	85828	210.5
SUB_TOTAL Image: Control of the state of t		(8)			37291	256454	580.4
			PRIVA	TE TUBE WELL/PUMPING SETS (LMV-5)			1615.8
Image: Second	LMV6	(A)					
Image: book of the second s							53.4 66.2
SUBTOTAL Second S		(B)			7230	30282	00.2
SUB_TOTAL SMALL & MEDIUM POWER LIPTO 100 HF (73) GAV. 6) 46200 407266 55 LMV-7 (A) Real Schedule 401 54400 (B) Jal Nigan 401 54400 4353 (B) Urban Schedule 116 1722 4353 (B) Urban Schedule 116 1722 4353 (B) Jal Sayman 300 6749 4 (B) Jal Sayman 300 6749 4 (B) Jal Sayman 663 2126 1 (B) Urban Schedule 1123 31994 112 (B) Metred Supply 1123 31994 112 (B) Metred Supply 123 67716 2 (B) Urban Schedule 10 Consumer 445 289 1 (B) Urban Schedule 10 Consumer 45 289 1 (B) Urban Schedule 10 Consumer 45 289 1 (B) Urban Schedule 10 Consumer 97 </td <td></td> <td></td> <td>~ /</td> <td></td> <td></td> <td></td> <td>44.5</td>			~ /				44.5
LMV:7 (A) Bural Schedule 1 0 0 Jal Singam 401 5480 0 Jal Santhan 288 4393 0 0 Jal Santhan 288 4393 0 0 Jal Signam 310 6749 4 0 0 Jal Signam 310 6749 4 0 0 Jal Signam 310 6749 4 0 0 Derice (WATEW Works) 219 6146 5 SUBTOTAL 0 Derice (WATEW Works) 219 6146 5 SUBTOTAL 0 Derice (WATEW WORKS(LAW-7) 2086 445732 15 0 0 Laghu Dai Nahar abore 100 DBHP 13 612 5 SUBTOTAL 0 Derimeter Status 1483 642 5 0 Derimeter Status 207 1780 5 608 10 Concensis 235 608 5 608 <		C1 (1)					387.8
A 0 Jal Nigam 401 5480 00 00 Chers (Water Works) 116 1742 00 Others (Nater Works) 116 1742 00 Data Sanshan 300 6740 4 00 Data Sanshan 300 6740 4 00 Data Sanshan 300 6743 4 SUB TOTAL FUBLIC WATER WORKSCAN-7) 2086 45532 18 SUB TOTAL FUBLIC WATER WORKSCAN-7) 2086 45532 18 SUM TOTAL FUBLIC WATER WORKSCAN-7) 2086 45532 18 SUB TOTAL FUBLIC WATER WORKSCAN-7) 2086 45532 18 SUB TOTAL TERLE WATER CANAL UTO 100 HPCMN-8 5990 130551 45 LMV-9 A Mater Supply 30 600 1780 CO Individual Residential Commerce 45 289 130551 45 LMV-90 187 755 130 300 1780 160					46202	407266	551.9
Image: Schedule and the schedule		, í			491	5486	21.2
(D) Uban Scholula (D) Jal Nigam (D) (D) Jal Nigam (D) (D) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15.2</td>							15.2
Image: bit of the second se		(B)	· ·		116	1742	8.0
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SUB TO TAL PUBLIC WATER WORKSOM V.7) 2080 445732 1812 IMV-8 (A) Mestered Supply 1123 31994 14 (B) Grametered Supply - - - - (B) STW, Brachsyat Raj, WB, I.Duch, P.Canala, I.J. upt 4853 97716 2 SUB TOTAL STATE TACK Stapply - - - - (B) Forter Supply - - - - (D) Individual Besidential Consumers . <					663		86.1
IMV-8 (h) Metered Supply 1112 31994 11 IO Discreted Supply 1 1 1 1 IO Discreted Supply 1 1 1 1 SUB TOT AL STATE TUBE WELLS & PLAPS CARAL UPTO 100 INFLAW & S 5990 1500551 42 SUB TOT AL STATE TUBE WELLS & PLAPS CARAL UPTO 100 INFLAW & S 5990 1500551 42 IO Ometered Supply 10 2 20 1 IO Construct State of Sta	CUD TOTAL		(iii)				17.0
(B) Unmetered Supply		(A)	Mete				187.4 140.0
Image: Barter Unite Strate S		(B)					
SUB TOTAL FTATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(JAW-8) 5990 130351 44 IMV-9 (A) Metred Supply			~ /				291.3
LMV-9 (h) Meter d supply meter d supply meter d supply 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>SUBTOTAL</td> <td>STATE</td> <td></td> <td></td> <td></td> <td></td> <td>1.2 432.5</td>	SUBTOTAL	STATE					1.2 432.5
Image: block of the second					0000	100001	10210
(ii) (b) (b) (c) (c) (i) (c)			~ /				1.1
i (i) Ceremonies 35 008 (ii) Temporary Shops 10 83 SUB TOTAL		(B)			97	1780	4.2
SUB TOTAL INV-10 (A) Serving Investigation IMV-10 (A) Cas N Employees 3352 9486 IMV-10 Class IV Employees 3352 9486 Imvestigation Class IV Employees 1148 230 Imvestigation Class IV Employees 17 120 120 Imvestigation For supply at 11kV 168 39232 1 Imvestigation Imvestigation 168 39232 1 Imvestigation Imvestigation 168 39232 1		. /			35	608	0.8
LNV10 (A) Serving Image: Constraint of the service o			(ii)				0.4
i) Class IV Employees 3352 9486 iii) Class IIE Employees 3810 17183 iiii) Lunor Engineers & Equivalent 251 1146 iii) Asstant Engineers & Equivalent 251 1146 iv) Asstant Engineers & Equivalent 230 iv) Deputy Generas & Equivalent 9 41 iv) Coal CACK (On & e Equivalent 753 23201 iv) Otal remaineer & Equivalent 9 41 iv) Foral Prephyle All Schedule 168 39222 1 iii) For supply at 11kV 168 39222 1 <td< td=""><td></td><td>(A)</td><td>Serv</td><td></td><td>187</td><td>2759</td><td>6.5</td></td<>		(A)	Serv		187	2759	6.5
(ii) Class III Employees 3810 17183 (iii) Junior Engineers & Equivalent 251 11146 (iv) Assistant Engineers & Equivalent 72 340 (iv) Executive Engineers & Equivalent 72 340 (iv) Executive Engineers & Equivalent 9 41 (vi) CGW/GM & Equivalent posts and above 17 120 (iv) CGW/GM & Equivalent posts and above 17 120 (iv) CGM/GM & Equivalent posts and above 17 120 (iv) CGM/GM & Equivalent posts and above 17 120 (iii) Fortal Pensioner 7531 23201 44 SUB TOT AL DEPARTMENTAL EMPLOY EES (LMV-10) 15063 51747 88 HV-1 (A) For supply at 118V 168 39222 1 (ii) For supply at 313 KV & above 17 3866 507759 19 SUB TOT AL VON INDUST RLL BULK LOADS (RV-1) 2265 261064 6 6 6 6		()		Class IV Employees	3352	9486	12.1
iv) Assistant Engineers & Equivalent 72 340 iv) Deputy General Manager & Equivalent 41 230 iv) Deputy General Manager & Equivalent 9 41 iv) CGM/CM & Equivalent posts and above 17 120 iv) CGM/CM & Equivalent posts and above 17 120 SUBTOTAL DEPARTMENTAL EMPLOYEES (LMV-10) 15083 51747 8 HV-1 (A) Dirpart MENTAL EMPLOYEES (LMV-10) 15083 51747 8 HV-1 (A) Dirpart Schedule							25.7
(v) Executive Engineers & Equivalent 41 230 (v) Deputy General Manager & Equivalent 9 41 (vi) CGM/CMA & Equivalent posts and above 17 120 (vi) Deputy Concral Manager & Equivalent 9 41 (vi) Total Pensioner & Enaily Pensioner 7531 23201 4 SUB TOTAL DEPARTMENTAL EMPLOY EES (LMV-10) 15083 51747 8 HV1 (A) Urban Schedule							2.0
(v) Deputy General Manager & Equivalent 9 41 (v) CGK/CK & Equivalent pots and above 17 120 (B) Total Pensioner & Family Pensioner 7531 23201 4 SUB TOTAL DEPART MENTAL EMPLOY EES (LMV-10) 15083 51747 8 HV-1 (A) Urban Schedule 0 0 0 (B) For supply at 33 kV & above 6 11835 0 (B) Rural Schedule 0 14 2827 (B) For supply at 33 kV & above 17 3866 SUB TOTAL NON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule 0 0 6 11835 SUB TOTAL NON INDUSTRIAL BULK LOADS (HV-1) 205 52759 19 HV-2 (A) Urban Schedule 0 1285 261064 6 UPA (D) For supply abve 66KV and upto & Including 66KV 83 104014 4 (B) R							0.6
(B) Tetal Pensioner 7531 23201 44 SUB TOTAL DEPARTMENTAL EMPLOYEES (LMV-10) 15083 51747 88 HV-1 (A) Urban Schedule 168 39232 1 (I) For supply at 13 kV & above 66 11885 1 (B) Rural Schedule 14 2827 1 (II) For supply at 13 kV & above 17 3866 SUB TOTAL NON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule 1265 261064 6 (II) For supply at 11kV 1265 261064 6 (II) For supply at 11kV and up to & Including 66kV 83 104614 4 (III) For supply above 61kV and up to & Including 132kV 97 28677 1 (III) For supply above 01kV and up to & Including 66kV 44 10038 1 (III) For supply above 012kV 1 21250 11 (III) For supply above 012kV<			(v i)	Deputy General Manager & Equivalent	9	41	0.1
SUB T OT AL DEPART MENTAL EMPLOYEES (LMV-10) 15083 51747 88 HV1 (A) Urban Schedule							8.7
HV1 (A) Urban Schedule 1 (i) For supply at 11kV 168 39232 1 (ii) For supply at 33 kV & above 6 11835 1 (iii) For supply at 33 kV & above 6 11835 1 (ii) For supply at 11kV 14 2827 1 (iii) For supply at 11kV 14 2827 1 (iii) For supply at 33 kV & above 17 3866 SUB T OT AL NON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule 1265 261064 6 (ii) For supply above 11kV and upto & Including 66kV 83 104614 4 (iii) For supply above 132kV 1 21250 1 (b) Rural Schedule 208 34371 1 (i) For supply athowe 11kV and upto & Including 66kV 44 10038 SUB T OT AL LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) 1697 460014 1433 G) For supply above 132kV 2 29996 14 </td <td>SUBTOTAL</td> <td>(B)</td> <td></td> <td></td> <td></td> <td></td> <td>40.0 89.6</td>	SUBTOTAL	(B)					40.0 89.6
(ii) For supply at 33 kV & above 6 11835 (ii) For supply at 33 kV & above 6 11835 (ii) For supply at 11kV 14 2827 (iii) For supply at 33 kV & above 17 3866 SUB TOTAL NON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV2 (A) Urban Schedule		(A)	Urba	n Schedule			
(B) Rural Schedule (i) For supply at 11kV 14 2827 (ii) For supply at 33 kV & above 17 3866 SUB TOTAL VON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule							113.2
(i) For supply at 11kV 14 2827 (ii) For supply at 38 kV & above 17 3866 SUB T OT AL NON INDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule		(B)			6	11835	56.8
(ii) For supply at 33 kV & above 17 3886 SUB TOTAL NON UNDUSTRIAL BULK LOADS (HV-1) 205 57759 19 HV-2 (A) Urban Schedule		(11)		For supply at 11kV	14	2827	10.1
HV2 (A) Urban Schedule Image: Constraint of the second seco				For supply at 33 kV & above			10.1
(i) For supply at 11kV 1265 261064 66 (ii) For supply above 11kV and upto & Including 66kV 83 104614 4 (iii) For supply above 66kV and upto & Including 132kV 97 28677 1 (iv) For supply above 66kV and upto & Including 132kV 97 28677 1 (iv) For supply above 132kV 1 21250 11 (i) For supply above 11kV and upto & Including 66kV 44 10038 (ii) For supply above 11kV and upto & Including 66kV 44 10038 HV3 (A) For supply above 132kV 2 29996 (B) For supply above 132kV 2 52613 1 (C) For supply above 132kV 23 13662 1 (G) For supply above 11kV and upto 66kV 1 8594 1 (G) For supply above 11kV and upto 66kV 1 8594 1 (G) For supply above 11kV and upto 66kV 1 8594 1 (G) For supply above 11kV and	SUBTOTAL HV2	(A)			205	57759	190.2
(ii) For supply above 0 1kV and upto & Including 66kV 83 104614 44 (iii) For supply above 66kV and upto & Including 132kV 97 28677		(1)			1265	261064	665.1
(iv) For supply above 132kV 1 21250 13 (B) Rural Schedule 208 34371 34371 (i) For supply at 11kV 208 34371 34371 (ii) For supply above 11kV and upto & Including 66kV 44 10038 SUB T OT AL LARCE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) 1697 460014 1433 HV3 (A) For supply at the above 132kV 2 29996 1697 (B) For supply ablew 132kV 2 52613 1697 1697 (B) For supply ablew 132kV 2 52613 1697 1697 1697 (B) For supply ablew 132kV 2 313662 97 1697 <td< td=""><td></td><td></td><td>· ·</td><td>For supply above 11kV and upto & Including 66kV</td><td>83</td><td>104614</td><td>470.1</td></td<>			· ·	For supply above 11kV and upto & Including 66kV	83	104614	470.1
(B) Rural Schedule (i) For supply all lkV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply above 11kV and upto & Including 66kV (iii) For supply at the above 132kV (iii) For supply at the above 132kV (iii) Composition (Composition (68.9 130.6
(i) For supply at 11kV 208 34371 (ii) For supply above 11kV and upto & Including 66kV 44 10038 SUB T OT AL LARCE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) 1697 460014 143 HV3 (A) For supply below 132kV 2 29996 11 (B) For supply below 132kV 2 52613 11 (C) For Metro Traction 0 0 0 SUB T OT AL RAILWAY TRACTION (HV-3) 4 82608 18 HV4 (A) For supply at 11kV and upto 66kV 1 8594 16 (B) For supply above 618kV and upto 132kV 1 9350 17 SUB T OT AL EXTRA STATE CONSUMERS 0 17 1 SUB T OT AL EXTRA STATE CONSUMERS 0 17 1 BULK (A) NPCL 0 0 0 (B) KESCO 1 1465618 27 SUB T OT AL EXTRA STATE CONSUMERS 0 1		(B)			1	21230	130.6
SUB T OT AL LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2) 1697 460014 143 HV3 (A) For supply at the above 132kV 2 29996 11 (B) For supply below 132kV 2 52613 11 (C) For Metro Traction 0 0 0 SUB T OT AL RAILWAY TRACTION (HV-3) 4 82608 18 HV4 (A) For supply at 11kV 23 13662 16 (B) For supply above 66kV and upto 66kV 1 8594 16 3350 SUB T OT AL IFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 SUB T OT AL EXTRA STATE & OTHERS 0 17 1 SUB T OT AL EXTRA STATE CONSUMERS 0 17 1 BULK (A) NPCL 0 0 0 0 1 BULK (B) KESCO 1 1465618 277 275 SUB T OT AL EXTRA STAFE CONSUMERS 0			(i)	For supply at 11kV			72.6
HV3 (A) For supply at the above 132kV 2 29996 10 (B) For supply below 132kV 2 52613 10 (C) For Metro Traction 0 0 0 0 SUB TOTAL RAILWAY TRACTION (HV-3) 4 82608 18 HV4 (A) For supply at 11kV 23 13662 17 (B) For supply above 66kV and upto 66kV 1 8594 18 (C) For supply above 66kV and upto 132kV 1 9350 18 SUB TOTAL HT RRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 SUB TOTAL EXTRA STATE 6 OTHERS 0 17 1 BULK (A) NPCL 0 10 1 BULK (A) NPCL 0 10 1 (B) KESCO 1 1465618 277 SUB TOTAL	SUBTOTA	LADO					31.4
(B) For supply below 132kV 2 52613 (C) For Metro Traction 0 0 0 SUB T OT AL RAILWAY TRACTION (HV-3) 4 82608 18 HV4 (A) For supply at 11kV 23 13662 (B) For supply above 11kV and up to 66kV 23 13662 (C) For supply above 66kV and up to 132kV 1 9350 SUB T OT AL ETT REIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 EXTRA STATE (A) EXTRA STATE & OTHERS 0 17 SUB T OT AL EXTRA STATE CONSUMERS 0 17 BULK (A) NPCL 0 0 (B) KESCO 1 1465618 275 SUB T OT AL EULK SUPPLY 1 1465618 275							1438.6 106.8
SUB T OT AL RAILWAY TRACTION (HV-3) 4 82608 18 HV4 (A) For supply at 11 kV 23 13662 1 (B) For supply above 11 kV and up to 66 kV 1 8594 1 8594 (C) For supply above 66 kV and up to 132 kV 1 9350 1 9350 SUB T OT AL FT IRRIGATION & P. CANAL ABOVE 100 BHP (75 kW) (HV-4 25 31607 9 EXTRA STATE (A) EXTRA STATE & 00 17 7 SUB T OT AL EXTRA STATE CONSUMERS 0 17 BULK (A) NPCL 0 0 (B) KESCO 1 1465618 277 SUB T OT AL BULK SUPPLY 1 1465618 277		(B)	For s	upply below 132kV	2		77.2
HV4 (A) For supply at 11kV 23 13662 (B) For supply above 11kV and upto 66kV 1 8594 (C) For supply above 66kV and upto 132kV 1 9350 SUB T OT AL IFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 EXTRA STATE (A) EXTRA STATE & OTHERS 0 17 SUB T OT AL EXTRA STATE CONSUMERS 0 17 BULK (A) NPCL 0 0 (B) KESCO 1 1465618 275 SUB T OT AL = BULK SUPPLY 1 1465618 275		(C)	For M				0.0
(B) For supply above 61kV and upto 66kV 1 8594 (C) For supply above 66kV and upto 132kV 1 9350 SUB T OT AL JFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 EXTRA STATE (A) EXTRA STATE & OTHERS 0 17 SUB T OT AL EXTRA STATE & OTHERS 0 17 BULK (A) NPCL 0 17 BULK (A) NPCL 0 17 SUB T OT AL EXTRA STATE CONSUMERS 0 17 SUB T OT AL EXTRA STATE CONSUMERS 0 27 SUB T OT AL EXECO 1 1465618 277		(A)	For m				184.0 74.5
(C) For supply above 66kV and upto 132kV 1 9350 SUB T OT AL JFT IR=IGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4 25 31607 9 EXTRA STATE (A) EXTRA STATE & 0 THERS 0 17 9 SUB T OT AL EXTRA STATE & 0 THERS 0 17 9 BULK (A) NPCL 0 0 0 (B) KESCO 1 1465618 277 SUB T OT AL EULK SUPPLY 1 1465618 277							0.5
EXTRA STATE (A) EXTRA STATE & OTHERS 0 17 SUB TOTAL EXTRA STATE CONSUMERS 0 17 BULK (A) NPCL 0 0 (B) KESCO 1 1465618 227 SUB TOTAL BULK SUPPLY 1 1465618 275					1	9350	19.9
SUB T OT AL EXTRA STATE CONSUMERS 0 17 BULK (A) NPCL 0 0 (B) KESCO 1 1465618 27 SUB T OT AL BULK SUPPLY 1 1465618 275							94.9 0.0
BULK (A) NPCL OD O (B) KESCO 1 1465618 227 SUB TOTAL EULK SUPPLY 1 1465618 277		(4)					0.0
SUB T OT AL BULK SUPPLY 1 1465618 272				-	0	0	0.0
	CUDTOT	(B)	KESC				2721.9
GRAND TOTAL 2152758 7075861 115	SUBTUTAL						2721.9 11562

Table 3-9: Billing Determinants for FY 10: AGRA DisCom

SUPPLY TYPE	CAT.	AGRA DISCOM FY 2010-11	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	ESTIMATED BILLED ENERGY
LMV1	(A)	Consumer getting supply as per "Rural Schedule"			(MU)
		(i) Un-metered	505914	740751 503294	640.0 608.7
	(B)	(ii) Metered Supply at Single Point for Bulk Load	365336 4559	503294 8579	17.8
	(C1)	Other Metered Domestic Consumers	829335	1342305	1928.0
SUBTOTAL	(C2)	Life Line Consumers/BPL DOMESTIC LIGHT FAN & POWER (LMV-1)	10886 1716029	10889 2605818	14.1 3209
LMV2	(A)	Consumer getting supply as per "Rural Schedule"			
		(i) Un-metered	3971 60099	6368 132912	5.5
	(B)	(ii) Metered Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	6192	11999	171.4
	(C)	Other Metered Non-Domestic Supply	150436	351911	449.1
SUBTOTAL LMV3	(A)	NON DOMESTIC LIGHT FAN & POWER (LMV-2) Un-metered Supply	220698	503190	641
		(i) Gram Panchyat	187	2274	8.2
		(ii) Nagar Palika & Nagar Panchyat (iii) Nagar Nigam	751	4767 4448	20.6
	(B)	Metered Supply	00	1110	10.0
		(i) Gram Panchyat	6 70	302	1.3
		(ii) Nagar Palika & Nagar Panchyat (iii) Nagar Nigam	20	5362 2132	21.3
SUBTOTAL		PUBLIC LAMPS (LMV-3)	1087	19285	80
LMV4		Public Institution(4 A) Private Institution(4 B)	6884 7712	67797 38832	240.9
SUBTOTAL		IGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	14596	106628	322
LMV5		Rural Schedule			
		(i) Un metered Supply (ii) Metered Supply	105422 12860	787456 87974	866.1 221.1
	(B)	Urban Schedule			
CUID		(i) Metered Supply	38223	262865 1138295	609.4 1697
SUBTOTAL LMV6	(A)	PRIVATE TUBE WELL/PUMPING SETS (LMV-5) Small & Medium Power (Power Loom)	156505	1138295	1697
		(i) Rural Schedule	5430	38163	56.1
	(B)	(ii) Urban Schedule Small & Medium Power	7410	51519	69.5
	(В)	(i) Rural Schedule	5014	37927	46.8
		(ii) Urban Schedule	29503	289838	407.2
SUBTOTAL LMV7	(A)	MALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6) Rural Schedule	47357	417448	579
	(A)	(i) Jal Nigam	503	5623	22.2
		(ii) Jal Sansthan (iii) Others (Water Works)	295 119	4503 1786	15.9
	(B)	Urban Schedule	119	1780	0.4
		(i) Jal Nigam	318	6918	42.0
		(ii) Jal Sansthan (iii) Others (Water Works)	679 225	21746 6299	90.4
SUBTOTAL		PUBLIC WATER WORKS(LMV-7)	2138	46875	197
LMV8			1152	32794	147.0
	(B)	Un-metered Supply (i) STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	7155	48300	305.9
		(ii) Laghu Dal Nahar above 100 BHP	13	658	1.3
SUBTOTAL LMV9		TE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8) Metered Supply	8320	81751	454
LIVIV3	(A)	(i) Individual Residential Consumers	46	296	1.1
	(10)	(ii) Others	99	1824	4.4
	(B)	Un-metered Supply (i) Ceremonies	36	623	0.9
		(ii) Temporary Shops	11	85	0.5
SUBTOTAL LMV10	(A)	TEMPORARY SUPPLY (LMV-9) Serving	192	2828	7
LWW	(A)	(i) Class IV Employees	3436	9723	12.7
		(ii) Class III Employees	3905 257	17613 1175	27.0
		(iii) Junior Engineers & Equivalent (iv) Assistant Engineers & Equivalent	74	348	2.1 0.7
		(v) Executive Engineers & Equivalent	42	236	0.5
		(vi) Deputy General Manager & Equivalent (vii CGM/GM & Equivalent posts and above	9 17	42 123	0.1 9.1
	(B)	Total Pensioner & Family Pensioner	7719	23781	42.0
SUBTOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	15460	53041	94
HV1	(A)	Urban Schedule (i) For supply at 11kV	172	40213	118.8
		(ii) For supply at 33 kV & above	7	12130	59.7
	(B)	Rural Schedule (i) For supply at 11kV	14	2897	21.2
		(ii) For supply at 33 kV & above	18	3962	
SUBTOTAL	(1)	NON INDUSTRIAL BULK LOADS (HV-1)	210	59203	200
HV2	(A)	Urban Schedule (i) For supply at 11kV	1296	267591	698.3
		(ii) For supply above 11kV and upto & Including 66kV	85	107229	493.6
		(iii) For supply above 66kV and upto & Including 132kV	100	29394 21781	72.3
	(B)	(iv]For supply above 132kV Rural Schedule	1	21781	137.1
		(i) For supply at 11kV	213	35230	76.2
SUBTOTAL	LA	(ii) For supply above 11kV and upto & Including 66kV RGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	45 1740	10289 471515	33.0 1511
HV3	(A)	For supply at and above 132kV	2	30746	112.1
	(B)	For supply below 132kV	2	53928	81.1 0.0
SUBTOTAL	(C)	ForDelhi Metro Rail RAILWAY TRACTION (HV-3)	4	84674	0.0 193
HV4	(A)	For supply at 11kV	24	14004	78.2
	(B) (C)	For supply above 11kV and upto 66kV	1	8809 9584	0.5
SUBTOTAL		For supply above 66kV and upto 132kV IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	26	32397	100
EXTRA STATE		EXTRA STATE & OTHERS	0	0	0.0
SUB TOTAL BULK	(A)	EXTRA STATE CONSUMERS NPCL	0	0 0	0.0
		KESCO	1	1547751	3027.0
SUBTOTAL		BULK SUPPLY	9194969	1547751	3027
		GRAND TOTAL	2184363	7170696	12309

Table 3-10: Billing Determinants for FY 11: AGRA DisCom

SUPPLY TYPE	CAT.		AGRA DISCOM FY 2011-12	CONSUMER (NUMBERS)	CONNECTED LOAD F (KW)	PROJECTED ENERG
LMV1	(A)		mer getting supply as per "Rural Schedule"			
		(i) (ii)	Un-metered Metered	584634 422182	856012 581607	73
	(B)	Supply	at Single Point for Bulk Load	5268	9913	20
	(C1) (C2)		Metered Domestic Consumers ne Consumers/BPL	958380 12580	1551168 12583	222
UBTOTAL	(02)	DC	DMESTIC LIGHT FAN & POWER (LMV-1)	12380	3011283	37
LMV2	(A)		mer getting supply as per "Rural Schedule"	1001		
			Un-metered Metered	4331 65556	6946 144979	18
	(B)	Privat	e Advertising/Sign Post/Sign Board/Glow Sign/Flex	6754	13089	10
UBTOTAL	(C)		Metered Non-Domestic Supply DOMESTIC LIGHT FAN & POWER (LMV-2)	164095 240736	383862 548876	48
LMV3	(A)		etered Supply	240736	548870	6
		(i)	Gram Panchyat	200	2433	
		(ii) (iii)	Nagar Palika & Nagar Panchyat Nagar Nigam	804 57	5100 4759	2
	(B)		ed Supply	01	1100	
		(i)	Gram Panchyat	6	323	
		(ii) (iii)	Nagar Palika & Nagar Panchyat Nagar Nigam	75	5738 2282	2
UBTOTAL		· /	PUBLIC LAMPS (LMV-3)	1163	20635	•
LMV4	(A) (B)		Institution(4 A) e Institution(4 B)	7366	72543	25
UBTOTAL			FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	8252 15618	41550 114092	8
LMV5	(A)		Schedule			
		(i)	Un metered Supply	118817	887507	97
	(B)	(ii) Urban	Metered Supply Schedule	14494	99151	24
		(i)	Metered Supply	43079	296264	68
JB TOTAL LMV6	(A)		AT E T UBE WELL/PUMPING SETS (LMV-5) & Medium Power (Power Loom)	176390	1282922	19
	/	(i)	Rural Schedule	5810	40835	6
	(P)	(ii)	Urban Schedule	7929	55125	7
	(B)	Small (i)	& Medium Power Rural Schedule	5365	40582	5
		(ii)	Urban Schedule	31568	310127	43
JBTOTAL			MEDIUM POWER UPT O 100 HP (75) (LMV-6)	50672	446669	e
LMV7	(A)	(i)	Schedule Jal Nigam	572	6395	2
		(ii)	Jal Sansthan	335	5121	-
	(B)	(iii)	Others (Water Works)	135	2031	
	(B)	(i)	Schedule Jal Nigam	361	7868	4
		(ii)	Jal Sansthan	773	24733	10
BTOTAL		(iii)	Others (Water Works) PUBLIC WAT ER WORKS(LMV-7)	256 2432	7164 53313	2
LMV8	(A)	Meter	ed Supply	1414	40270	18
	(B)		etered Supply			
		(i) (ii)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP Laghu Dal Nahar above 100 BHP	8787 17	59311 807	37
UBTOTAL	STAT		E WELLS & PUMPS CANAL UPT O 100 HP(LMV-8)	10217	100389	5
LMV9	(A)		ed Supply			
		(i) (ii)	Individual Residential Consumers Others	50 106	316 1952	
	(B)		etered Supply	100	1552	
		(i)	Ceremonies	38	667	
JBTOTAL		(ii)	Temporary Shops TEMPORARY SUPPLY (LMV-9)	11 205	91 3026	
LMV10	(A)	Servin				
		(i)	Class IV Employees	3677	10404	1
		(ii) (iii)	Class III Employees Junior Engineers & Equivalent	4179 275	18846 1257	2
		(iv)	Assistant Engineers & Equivalent	79	373	
		(v) (vi)	Executive Engineers & Equivalent Deputy General Manager & Equivalent	45	252	
		(vii)	CGM/GM & Equivalent posts and above	9	45 132	
	(B)		Pensioner & Family Pensioner	8260	25445	4
JB T OT AL HV1	(A)		EPART MENT AL EMPLOYEES (LMV-10) Schedule	16542	56754	
	,	(i)	For supply at 11kV	185	43068	1:
	(Tr.)	(ii)	For supply at 33 kV & above	7	12992	6
	(B)		Schedule For supply at 11kV	15	3103	
		(ii)	For supply at 33 kV & above	19	4244	1
BTOTAL HV2	(A)		Schedule	225	63407	
11VZ	(4)	Urban (i)	For supply at 11kV	1388	286589	74
		(ii)	For supply above 11kV and upto & Including 66kV	91	114842	51
		(iii) (iv)	For supply above 66kV and upto & Including 132kV For supply above 132kV	107	31481 23328	14
	(B)		Schedule	1	23328	14
		(i)	For supply at 11kV	228	37731	
BTOTAL	LAF	(ii)	For supply above 11kV and upto & Including 66kV HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	48 1863	11020 504990	10
HV3	(A)		pply at and above 132kV	2	30746	1
	(B)	For su	pply below 132kV	2	53928	
BTOTAL	(C)	ForDe	lhi Metro Rail RAILWAY TRACTION (HV-3)	4	84674	
HV4	(A)	For su	pply at 11kV	27	16113	9
	(B)	For su	pply above 11kV and upto 66kV	1	10136	
BTOTAL	(C)		pply above 66kV and upto 132kV IGATION & PC ABOVE 100 BHP (75kW) (HV-4)	1 30	11028 37277	:
RA STAT	(A)		A STATE & OTHERS		51211	
BTOTAL		•	EXTRA STATE CONSUMERS	0	0	
	(A)	NPCL		0	0 1601142	31:
BULK	(B)	KESCC)			
		KESCO	BULK SUPPLY	1	1601142	31

Table 3-11: Projected Billing Determinants for FY 12: AGRA DisCom

3.18 Revenue Assessment:

The detailed sales forecast described in the previous sections combined with the billing determinant information provided in section 3.14 & 3.16, may be used to work out the revenue for FY 2009-10 and for assessment year FY2010-11 and FY 2011-12 on Consolidated DisCom and AGRA DisCom are as under:-

Table 3-12 represents consolidated assessment revenue for FY2010, which is derived from tariff effective from dt.27/04/2008 from UPERC Tariff Order FY 2008-09.

Table3-13 tabulates estimated revenue for FY2011 which is derived based on weighted average tariff effective from dt. 27/04/2008 and dt. 15/04/2010 from UPERC Tariff Order FY 08, FY 09 & FY 10 of Consolidated DisCom.

Table3-14 tabulates projected revenue for FY2012 on current Tariff based on UPERC Tariff Order TO FY 2009-10 of Consolidated DisCom.

Consumer Category	Assessment Revenue	Electricity Sales	Through Rate	
	Rs. Cr	MU	Rs./kWh	
LMV-1: Domestic Light, Fan & Power	3062	14878	2.06	
(a) Consumer getting supply as per "Rural Schedule"	647	6,116	1.06	
(b) Supply at Single Point for Bulk Loads	82	268	3.05	
(c) Other Metered Domestic Consumers	2324	8,444	2.75	
(d) Life Line Consumers	8	50	1.68	
LMV-2: Non Domestic Light, Fan & Power	1212	2901	4.18	
(a)Non-Domestic(Rural)	138	650	2.12	
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	14	25	5.62	
(c)Non-Domestic (Urban Metered)	1061	2226	4.77	
LMV-3: Public Lamps	234	530	4.41	
LMV-4: Insitutions	472	1270	3.71	
LMV-5: Private Tube Wells	529	4903	1.08	
LMV 6: Small and Medium Power	903	2008	4.50	
(a): Small & Medium Power for Power Loom	166	419	3.97	
(b):Small & Medium Power	737	1589	4.64	
LMV-7: Public Water Works	377	920	4.10	
LMV-8: State Tubewells & Pumped Canals	429	1733	2.47	
LMV-9: Temporary Supply	28	59	4.75	
LMV-10: Deptt. Empl. & Pensioners	43	329	1.31	
HV-1: Non-Industrial Bulk Load	605	1322	4.57	
HV-2: Large & Heavy Power	3128	6777	4.62	
HV-3: Railway Traction	266	647	4.11	
HV-4: Lift Irrigation Works	210	681	3.08	
Sub Total	11498	38958	2.95	
Bulk & Extra State	777	3,107	2.50	
Consolidated DisCom	12275	42065	2.92	

Consumer Category	Asses	ssment Reve Rs. Cr	Electricity Sales	Through Rate	
	15/04/2010	27/04/2008	Aggregated	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	4407	3859	4374	16438	2.66
(a)Consumer getting supply as per"Rural Schedule"	725	658	720	6431	1.12
(b) Supply at Single Point for Bulk Loads	107	93	106	310	3.41
(c) Other Metered Domestic Consumers	3544	3076	3516	9478	3.71
(d) Life Line Consumers	32	32	32	219	1.46
LMV-2:Non Domestic Light,Fan & Power	1399	1282	1391	3206	4.34
(a)Non-Domestic(Rural)	165	164	164	772	2.12
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	24	17	23	25	9.39
(c)Non-Domestic (Urban Metered)	1211	1101	1204	2408	5.00
LMV-3: Public Lamps	297	249	294	592	4.97
LMV-4: Insitutions	595	529	591	1213	4.87
LMV-5: Private Tube Wells	566	566	564	5272	1.07
LMV 6: Small and Medium Power	1069	948	1061	2172	4.88
(a): Small and Medium Power for Power Loom	173	152	172	405	4.23
(b):Small and Medium Power	896	795	889	1767	5.03
LMV-7: Public Water Works	495	452	492	1101	4.46
LMV-8: S T W and Pumped Canals	740	596	732	1867	3.92
LMV-9: Temporary Supply	35	28	35	48	7.26
LMV-10: Dept.Empl. and Pensioners	51	45	51	354	1.44
HV-1: Non-Industrial Bulk Load	710	597	704	1362	5.17
HV-2: Large and Heavy Power	4047	3552	4017	8064	4.98
HV-3: Railway Traction	313	272	310	723	4.30
HV-4: Lift Irrigation Works	288	241	285	731	3.90
Sub Total	15012	13218	14901	43141	3.45
Bulk & Extra State	1,111	954	1,101	3,450	3.19
CONSOLIDATED DisCom	16123	14172	16002	46591	3.43

Table 3-13: Assessment Revenue, Sales & Through Rate: FY 2011(Consolidated)

Table 3-14: Projected Revenue, Sales & Through Rate: FY 2012 (Consolidated)

CURRE	NT TARIFF			
Consumer Category	Assessment Revenue	Electricity Sales	Through Rate	
	Rs. Cr	MU	Rs./kWh	
LMV-1: Domestic Light, Fan & Power	5643	19859	2.8	
(a) Consumer getting supply as per "Rural Schedule"	830	7,430	1.12	
(b) Supply at Single Point for Bulk Loads	128	372	3.45	
(c) Other Metered Domestic Consumers	4618	11,768	3.92	
(d) Life Line Consumers	67	289	2.32	
LMV-2: Non Domestic Light, Fan & Power	1693	3858	4.3	
(a)Non-Domestic(Rural)	228	1047	2.1	
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	38	38	10.0	
(c)Non-Domestic (Urban Metered)	1427	2772	5.1	
LMV-3: Public Lamps	451	890	5.0	
LMV-4: Insitutions	640	1263	5.0	
LMV-5: Private Tube Wells	641	5850	1.1	
LMV 6: Small and Medium Power	1352	2543	5.3	
(a): Small & Medium Power for Power Loom	196	452	4.3	
(b):Small & Medium Power	1157	2091	5.5	
LMV-7: Public Water Works	687	1530	4.4	
LMV-8: State Tubewells & Pumped Canals	1088	2228	4.8	
LMV-9: Temporary Supply	31	66	4.7	
LMV-10: Deptt. Empl. & Pensioners	70	427	1.6	
HV-1: Non-Industrial Bulk Load	775	1427	5.4	
HV-2: Large & Heavy Power	4424	8980	4.9	
HV-3: Railway Traction	331	770	4.3	
HV-4: Lift Irrigation Works	428	873	4.9	
Sub Total	18256	50564	3.61	
Bulk & Extra State	1225	3,612	3.3	
Consolidated DisCom	19481	54176	3.6	

Tables 3-15, 3-16 and 3-17 tabulated the same information as Tables 3-12, 3-13 and 3-14, but for AGRA DisCom.

Dakshinanchal Vidyut Vitaran Nigam Ltd. AGRA DisCom

Consumer Category	Assessment Revenue	Electricity Sales	Through Rate
	Rs. Cr	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	669	3056	2.19
(a) Consumer getting supply as per "Rural Schedule"	134	1,189	1.13
(b) Supply at Single Point for Bulk Loads	5	17	3.01
(c) Other Metered Domestic Consumers	527	1,836	2.87
(d) Life Line Consumers	2	13	1.75
LMV-2: Non Domestic Light, Fan & Power	280	611	4.58
(a)Non-Domestic(Rural)	38	169	2.24
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	7	14	5.00
(c)Non-Domestic (Urban Metered)	235	428	5.49
LMV-3: Public Lamps	33	76	4.28
LMV-4: Insitutions	101	306	3.31
LMV-5: Private Tube Wells	169	1616	1.05
LMV 6: Small and Medium Power	250	552	4.53
(a): Small & Medium Power for Power Loom	45	120	3.74
(b):Small & Medium Power	205	432	4.75
LMV-7: Public Water Works	77	187	4.11
LMV-8: State Tubewells & Pumped Canals	132	433	3.06
LMV-9: Temporary Supply	3	7	4.25
LMV-10: Deptt. Empl. & Pensioners	10	90	1.17
HV-1: Non-Industrial Bulk Load	77	190	4.03
HV-2: Large & Heavy Power	637	1439	4.43
HV-3: Railway Traction	73	184	3.97
HV-4: Lift Irrigation Works	32	95	3.37
Sub Total	2544	8840	2.88
Bulk & Extra State	671	2,722	2.46
AGRA DisCom	3214	11562	2.78

Table 3-15: Assessment Revenue, Sales & Through Rate: FY 2010 :(AGRA DisCom)

 Table 3-16: Assessment Revenue, Sales & Through Rate: FY 2011(AGRA DisCom).

Consumer Category	Asses	ssment Reve Rs. Cr	Electricity Sales	Through Rate	
	15/04/2010	27/04/2008	Aggregated	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	904	774	896	3209	2.79
(a)Consumer getting supply as per"Rural Schedule"	146	137	145	1249	1.10
(b) Supply at Single Point for Bulk Loads	6	5	6	18	3.41
(c) Other Metered Domestic Consumers	749	630	743	1928	3.85
(d) Life Line Consumers	3	3	3	14	1.90
LMV-2:Non Domestic Light, Fan & Power	283	245	281	641	4.38
(a)Non-Domestic(Rural)	41.5	41.4	41	177	2.34
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	14	7	14	15	9.24
(c)Non-Domestic (Urban Metered)	228	196	226	449	5.02
LMV-3: Public Lamps	37	31	37	80	4.62
LMV-4: Insitutions	158	147	157	322	4.90
LMV-5: Private Tube Wells	178	178	178	1697	1.05
LMV 6: Small and Medium Power	283	262	281	579	4.85
(a): Small and Medium Power for Power Loom	52	47	51	126	4.09
(b):Small and Medium Power	231	216	230	454	5.06
LMV-7: Public Water Works	88	81	88	197	4.46
LMV-8: S T W and Pumped Canals	149	122	147	454	3.24
LMV-9: Temporary Supply	3	3	3	7	4.8
LMV-10: Dept.Empl. and Pensioners	12	11	12	94	1.30
HV-1: Non-Industrial Bulk Load	96	80	95	200	4.75
HV-2: Large and Heavy Power	756	662	750	1511	4.96
HV-3: Railway Traction	86	76	85	193	4.40
HV-4: Lift Irrigation Works	40	33	40	100	3.98
Sub Total	3073	2707	3051	9282	3.29
Bulk & Extra State	974	837	966	3,027	3.19
AGRA DisCom	4048	3544	4017	12309	3.26

Dakshinanchal Vidyut Vitaran Nigam Ltd. AGRA DisCom

CURRENT TARIFF					
Consumer Category	Assessment Revenue	Electricity Sales	Through Rate		
	Rs. Cr	MU	Rs./kWh		
LMV-1: Domestic Light, Fan & Power	1042	3708	2.81		
(a) Consumer getting supply as per " Rural Schedule "	169	1,443	1.17		
(b) Supply at Single Point for Bulk Loads	7	21	3.43		
(c) Other Metered Domestic Consumers	862	2,228	3.87		
(d) Life Line Consumers	4	16	2.32		
LMV-2: Non Domestic Light, Fan & Power	313	699	4.47		
(a)Non-Domestic(Rural)	45	193	2.35		
(b)Private Advertisements/Sign Boards/Glow Signs/Flex	16	16	10.00		
(c)Non-Domestic (Urban Metered)	251	490	5.12		
LMV-3: Public Lamps	40	86	4.66		
LMV-4: Insitutions	174	344	5.06		
LMV-5: Private Tube Wells	213	1912	1.12		
LMV 6: Small and Medium Power	311	620	5.02		
(a): Small & Medium Power for Power Loom	59	134	4.43		
(b):Small & Medium Power	252	486	5.18		
LMV-7: Public Water Works	101	224	4.49		
LMV-8: State Tubewells & Pumped Canals	183	558	3.27		
LMV-9: Temporary Supply	3	7	4.73		
LMV-10: Deptt. Empl. & Pensioners	13	101	1.31		
HV-1: Non-Industrial Bulk Load	106	224	4.72		
HV-2: Large & Heavy Power	814	1618	5.03		
HV-3: Railway Traction	86	193	4.46		
HV-4: Lift Irrigation Works	56	115	4.85		
Sub Total	3453	10408	3.32		
Bulk & Extra State	1062	3,131	3.39		
AGRA DisCom	4516	13540	3.34		

Table 3-17: Projected Rev. Sales & Through Rate: FY 2012(AGRA DisCom)

4 ARR for Wheeling & Retail Supply Business:

Hon'ble Commission has issued Distribution Tariff Regulations 2006 which require that Distribution licensee shall file Aggregate Revenue Requirement (ARR)/Tariff Petition complete in all respect along with requisite fees as prescribed by the Commission. The ARR petition shall contain detail of estimated expenditure and expected revenue that it may recover in the ensuing financial year at the prevailing rate of Tariff. Further ARR /Tariff filing by the Distribution licensee shall separately indicate Aggregate Revenue Requirement (ARR) for wheeling & Retail supply function embedded in the distribution function. Till such time complete segregation of accounts between Wheeling and Retail Supply Business takes place, ARR proposals for Wheeling and Retail Supply Business shall be prepared based on an allocation statement to the best judgment of the distribution licensee. The Hon, ble Commission in Tariff Regulation has broadly classified cost incurred by the licensee as controllable & un controllable costs. Uncontrollable cost include fuel cost, increase in interest rate, increase of cost due to inflation, Taxes & cess, variation of power purchase unit costs etc.

Components of Annual Expenditure:

Distribution Tariff regulation state that annual expenditure of distribution licensee comprises the following components:

- a) Power Purchase Cost
- b) Transmission Charge
- c) SLDC Charges
- d) Operation & Maintenance Expense
- e) Depreciation
- f) Interest & Financing Costs and Retail Supply Business
- g) Bad and Doubtful Debts
- h) Return on Equity
- i) Taxes on Income
- j) Other expense
- k) Contribution to Contingency Reserve

In this petition the Petitioner is filing expenses for two years FY 2010-11 & FY2011-12 for approval of the Commission. In estimating the expenses the main objective of the Petitioner is to reduce or at least contain the expenses to the extent possible thereby reducing cost burden on the consumers. For the current year petitioner has endeavored to limit most of the expenses within the budget approved by Hon'ble commission in its last Tariff Order with some exception which were totally beyond the control of the petitioner.

In the ensuing years the petitioner has taken up the challenge to control most of the operating expenses with in the current year level with moderate hike to only overcome the rising inflation. The petitioner is making all out effort to improve quality of supply and customer service level for this purpose. Petitioner has made elaborate plan for man power planning and investment plan. In spite of petitioner's effort to control expenses the total Revenue Requirement has risen mainly due to uncontrollable factor such as power purchase cost and interest & financing cost. The petitioner would like to highlight that all the revenue realized is spent for power purchase payment; therefore to carry out the business, petitioner has to depend on subsidy from GoUP and funding from financial institutions, this is due to the fact that there is vast difference in revenue calculation of Hon'ble commission and the petitioner at existing consumer tariff Rate.

The detailed analysis & estimate of above elements of ARR for FY 2010-11 & FY2011-12 have been presented in the subsequent sections with explanation. The cost elements of ARR have been estimated based on the provisional un-audited account of FY2009-10 & expenses available till date. The Cost expense has been provided in this section comprises both on a consolidated basis for all DisComs as well as for AGRA DisCom. The consolidated ARR forecast is necessary because the uniform statewide retail tariff structure currently in place requires an aggregate approach.

The Tariff regulation suggest for formulation of an escalation index linked with appropriate indices/rate like consumer price Index (CPI) and whole sale price index (WPI) as notified by central government for different years. As per the Tariff Regulation for determination of Operation &Maintenance expenses(which comprises employee cost ,A&G expenses and R&M expenses) for year under consideration ,the O&M expenses of the base year shall be escalated at inflation rates notified by the central Government for different years. The inflation rate for above

purpose shall be the weighted average of Wholesale Price Index and Consumer Price Index in the ratio of 60:40. Therefore it is imperative to first calculate an Escalation index based on guide lines provided in the regulation .Accordingly petitioner has calculated an escalation index in the following section.

4.1 Escalation Index/Inflation Rate:

Regulation issued by Hon'ble commission provides that expenses of the base year shall be escalated at inflation/Escalation rate notified by central government for different years. The inflation rate for this purpose shall be weighted average of wholesale Price Index and Consumer Price Index in the ratio of 60:40. Therefore for the purpose of this ARR petitioner has used this methodology in arriving at Escalation Index/ Inflation Rate of 9.68 %. This escalation/Inflation index has been used in estimation of various components of ARR. Calculation of Escalation/ Inflation Index is given in following table:

Inflation Rate=0.6*Inflation based on WPI + 0.4*Inflation based on CPI

Month	Wholes	Wholesale Price Index			er Price Inde	X
	2008	2009	2010	2008	2009	201
Jan	218	229	251	134	148	17:
Feb	220	228	251	135	148	17
Mar	226	228	253	137	148	17(
Apr	229	232	258	138	150	17(
Мау	231	234	260	139	151	172
Jun	237	235	261	140	153	174
Jul	240	239	263	143	160	178
Aug	241	241	264	145	162	178
Sep	242	243		146	163	179
Oct	239	243		148	165	
Nov	234	247		148	168	
Dec	230	248		147	169	
Inflation			9.55%			9.88%
Weighted Average (WPI 60%:CPI 40	%)				9.68%

WPI-http://eaindustry.nic.in

CPI-http://labourbureau.nic.in/intab.html

4.2 **Power Purchase Costs:**

The Distribution Tariff Regulation provides that The Distribution Licensee shall have the flexibility of procuring power from any source in the country. However, the Distribution Licensee shall procure power on least cost basis and as per merit order principle. A two-part tariff structure shall be adopted for all long term contracts to facilitate merit order dispatch. The cost of energy available from State Generating Stations shall be assessed as per tariffs approved by the Commission and that of energy from Central Sector Station shall be taken as per tariffs approved by Central Electricity Regulatory Commission. The cost of energy from other sources shall be assessed as per the power purchase/banking/trading agreements and tariffs approved by the Commission. The cost of power purchase from Independent Power Producers (IPPs) within the State shall be as per the tariffs determined in accordance with UPERC (Terms and Conditions of Generation Tariff) Regulations. Similarly the cost of power purchase from IPPs out side the State shall be as per the tariffs and power purchase agreement approved by the Commission. Accordingly petitioner has estimated Power Purchase cost for FY2010-11 & FY 2011-12 based on above guiding factors provided in the regulation. Some key assumptions considered in forecasting power purchase units & Cost is given below:

- Actual power purchase cost and units of FY2009-10
- Trend observed in the previous and current year.
- Impact of loss reduction initiatives.
- Estimated growth in sales.
- Share of capacity available from various Generators to the UPPCL.
- For ensuing year the petitioner has projected aggregate DisCom T & D losses of 28.20% & 26.57% for FY 11 & FY 12 respectively, which calls significant reduction in commercial as well as technical losses. The reduction in these losses will be achieved by bringing the unauthorized use of electricity into the billing net and accurately measuring the consumption of electricity.
- 2. Distribution licensees are purchasing power from UPPCL at the rate of bulk supply tariff decided by the Commission where as UPPCL procures power from various generating station i.e. central as well as state generating stations on behalf of distribution companies . UPPCL is currently taking steps to ensure

that its purchases are optimized with respect to merit order dispatch and avoid unscheduled interchange (UI), based on frequency deviations from 50 Hz. Purchases are currently being so optimized on a "short-term" day-to-day and hour-to-hour basis. The current power procurement plan is based on an exercise of merit order dispatch and probabilistic analysis conducted on a monthly basis.

4.3 Power purchases summary

Summary of energy balances and corresponding purchased power details are shown in Table 4-2 for FY 2010-11 and in Table 4-3 for FY 2011-12 respectively .A summary of year wise Power purchases from FY09 (actual) to FY12 (estimated) are computed in Table 4-4

A detailed Power Procurement Plan and "merit order" dispatch are provided in **Annexure- A.**

Energy Total Cost(Rs. Crores)						
Name of Power Plant	Procurement	Fixed Cost	Other Fixed	Variable	TT - 4 - 1 4	Average Cost
	(MU)	Fixed Cost	Cost	Cost	Total cost	(RS/KWh)
UPRVUNL						
Anpara A	4004	240.10	0.00	486.83	727	1.82
Anpara B Harduaganj	6333	629.87	0.00	787.42	1417	2.24
Obra A	796 1417	125.88 161.82	0.00	229.81 269.97	356 432	4.47
Obra B	3766	335.12	0.00	678.53	432	2.69
Panki	1050	116.12	0.00	288.60	405	3.85
Paricha	805	101.09	0.00	234.19	335	4.17
Paricha Ext.	2526	391.19	0.00	580.64	972	3.85
Harduaganj Ext.(2*250)	92	14.07	0.00	18.44	33	3.53
Total	20789.10	2115.25	0.00	3574.43	5690	2.74
UPJVNL						
Khara	208.00	38.90	0.00	0.00	39	1.87
Matatila	66.67	3.68	0.00	0.00	4	0.55
Obra (Hydel)	175.00	11.47	0.00	0.00	11	0.66
Rihand	416.50	21.62	0.00	0.00	22	0.52
U.G.C.Power Stations.	25.00	5.74	0.00	0.00	6	2.30
E.Y.C.Power Stations	11.00	0.00	0.00	2.62	3	2.39
Sheetla	9.53	0.00	0.00	3.43	3	3.59
Total NHPC	911.70	81.42	0.00	6.05	87	0.96
Chamera	459	20.44	6.65	21.26	67	1.40
Chamera-II	452 459	29.44 51.67	6.65 3.91	31.36 61.35	67 117	1.49
Chamera-III	439	0.00	0.00	13.66	117	2.33
Dhauliganga	317	23.48	1.52	28.73	54	1.69
Salal I&II	240	8.90	0.84	7.88	18	0.74
Tanakpur	104	9.41	0.11	6.22	16	1.52
Uri	534	55.02	4.12	32.59	92	1.72
Dulhasti	584	125.90	0.00	149.69	276	4.72
Sewa-II	119	28.31	1.13	21.33	51	4.28
Uri-II	13	0.00	0.00	4.46	4	3.32
Total	2869	332.13	18.29	357.27	708	2.47
NTPC						
Anta	798	32.34	1.55	191.93	226	2.83
Auriya	1675	64.65	3.08	439.78	508	3.03
Dadri Thermal Dadri Gas	642	37.98	1.25	157.59	197	3.07
Dadri EXT.	1782 695	76.31 84.70	5.51 1.49	503.89	586 243	3.29
Rihand-I	2771	179.46	0.89	156.53 447.17	628	3.49
Rihand-II	2524	217.44	11.49	420.21	649	2.57
Singrauli	6265	188.08	22.83	872.11	1083	1.73
Tanda	3141	201.30	6.97	667.60	876	2.79
Unchahar I	1951	118.75	8.94	389.02	517	2.65
Unchahar II	1099	80.53	3.73	212.50	297	2.70
Unchahar-III	593	63.75	0.48	111.97	176	2.97
Farakka TPS	251	14.27	0.00	81.51	96	3.81
Kahalgaon St-I	581	38.78	0.03	115.30	154	2.65
Kahalgaon Ph-II ST-II	1127	179.09	0.00	215.93	395	3.50
					6690	2.56
Total	25896	1577.43	68.23	4983.03	6629	
NPCIL						
NPCIL NAPP	300	0.00	0.00	61.22	61	2.04
NPCIL NAPP RAPP	300 223	0.00	0.00	61.22 62.07	61 62	2.04 2.78
NPCIL NAPP RAPP RAPP#5&6	300 223 254	0.00 0.00 0.00	0.00 0.00 0.00	61.22 62.07 76.70	61 62 77	2.04 2.78 2.78
NPCIL NAPP RAPP RAPP#5&6 Total	300 223 254 777	0.00	0.00	61.22 62.07	61 62	2.04 2.78
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/ Othe	300 223 254 777 Prs	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	61.22 62.07 76.70 199.99	61 62 77 200	2.04 2.78 2.78 2.57
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/ Othe NATHPAJHAKRI HPS	300 223 254 777 2FS 1244	0.00 0.00 0.00 0.00 141.69	0.00 0.00 0.00 0.00 15.00	61.22 62.07 76.70 199.99 175.46	61 62 77 200 332	2.04 2.78 2.78 2.57 2.57
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/ Othe	300 223 254 777 Prs	0.00 0.00 0.00 0.00 141.69 0.00	0.00 0.00 0.00 0.00 15.00 0.00	61.22 62.07 76.70 199.99 175.46 579.98	61 62 77 200	2.04 2.78 2.78 2.78 2.57 2.57 2.67 3.46
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN	300 223 254 777 ers 1244 1678	0.00 0.00 0.00 0.00 141.69 0.00 0.00	0.00 0.00 0.00 0.00 15.00	61.22 62.07 76.70 199.99 175.46	61 62 77 200 332 580	2.04 2.78 2.78 2.57 2.57
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER	300 223 254 777 Prs 1244 1678 184	0.00 0.00 0.00 0.00 141.69 0.00	0.00 0.00 0.00 15.00 0.00 0.00	61.22 62.07 76.70 199.99 175.46 579.98 33.86	61 62 77 200 332 580 34	2.04 2.78 2.78 2.57 2.67 3.46 1.84
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER VISHNUPRAYAG	300 223 254 777 275 1244 1678 184 1774	0.00 0.00 0.00 141.69 0.00 0.00 217.58	0.00 0.00 0.00 15.00 0.00 0.00 0.55	61.22 62.07 76.70 199.99 175.46 579.98 33.86 194.65	61 62 77 200 332 580 34 413	2.04 2.78 2.78 2.78 2.57 2.67 3.46 1.84 2.33
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Bilateral	300 223 254 777 2rs 1244 1678 184 1774 1241	0.00 0.00 0.00 0.00 141.69 0.00 0.00 217.58 270.55	0.00 0.00 0.00 15.00 0.00 0.00 0.55 29.93	61.22 62.07 76.70 199.99 175.46 579.98 33.86 194.65 310.25	61 62 77 200 332 580 34 413 611	2.04 2.78 2.78 2.57 2.67 3.46 1.84 2.33 4.92
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Bilateral Others/UI	300 223 254 777 2rs 1244 1678 184 1774 1241 1774 1241 3584 1783 2157	0.00 0.00 0.00 141.69 0.00 0.00 217.58 270.55 0.00 0.00 0.00	0.00 0.00 0.00 15.00 0.00 0.00 0.55 29.93 0.00 0.00 0.00	61.22 62.07 76.70 199.99 175.46 579.98 33.86 194.65 310.25 1143.21 697 1014	61 62 77 200 332 580 34 413 611 1143 697 1014	2.04 2.78 2.78 2.57 2.67 3.46 1.84 2.33 4.92 3.19 3.91 4.70
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Bilateral Others/UI TOTAL	300 223 254 777 2rs 1244 1678 184 1774 1241 1774 1241 3584 1783 2157 64888	0.00 0.00 0.00 141.69 0.00 0.00 217.58 270.55 0.00 0.00	0.00 0.00 0.00 15.00 0.00 0.00 0.55 29.93 0.00 0.00	61.22 62.07 76.70 199.99 175.46 579.98 33.86 194.65 310.25 1143.21 697	61 62 77 200 332 580 34 413 611 1143 697	2.04 2.78 2.78 2.57 2.67 3.46 1.84 2.33 4.92 3.19 3.91
NPCIL NAPP RAPP RAPP#5&6 Total IPP/JV/Bilateral/Othe NATHPAJHAKRI HPS CO-GEN TALA POWER VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Bilateral Others/UI	300 223 254 777 2rs 1244 1678 184 1774 1241 1774 1241 3584 1783 2157	0.00 0.00 0.00 141.69 0.00 0.00 217.58 270.55 0.00 0.00 0.00	0.00 0.00 0.00 15.00 0.00 0.00 0.55 29.93 0.00 0.00 0.00	61.22 62.07 76.70 199.99 175.46 579.98 33.86 194.65 310.25 1143.21 697 1014	61 62 77 200 332 580 34 413 611 1143 697 1014	2.04 2.78 2.78 2.57 2.67 3.46 1.84 2.33 4.92 3.19 3.91 4.70

Table 4-2:Details of Power Procurement Cost for FY-2010-11:

Table 4-3: Details of Power Procurement Cost for FY-2011-12

Name of Power Plant	Energy Procurement (MU)	Total Cost (Rs. Crs.)	Average Cost (RS/KWh)
UPRVUNL			
Anpara A	4004	762.34	1.90
Anpara B	6333	1522.84	2.40
Harduaganj Obra A	796 1417	416.02 458.96	5.23
Obra B	3766	1254.79	3.33
Panki	1050	438.75	4.18
Paricha	805	366.07	4.55
Paricha Ext.	2526	1025.80	4.06
Paricha Ext. (2*250) Harduaganj Ext.(2*250)	581 2923	256.01 1148.71	4.40
Total	2923	7650.29	<u> </u>
UPJVNL	24201	7050.25	5.10
Khara	208.00	41.24	1.98
Matatila	66.67	3.90	0.59
Obra (Hydel)	175.00	12.16	0.70
Rihand	416.50	22.91	0.55
U.G.C.Power Stations.	25.00	6.09	2.43
E.Y.C.Power Stations	11.00 9.53	2.78 3.63	2.53 3.81
Sheetla Total	9.53	3.63 92.64	<u>3.81</u> 1.02
NHPC	516	52.04	1.02
Chamera	452	71.49	1.58
Chamera-II	459	123.94	2.70
Chamera-III	46	14.48	3.15
Dhauliganga	317	56.95	1.79
Salal I&II	240	18.69	0.78
Tanakpur	104	16.70 97.24	1.61
Uri Dulhasti	534 584	97.24 292.12	<u> </u>
Sewa-II	131	59.32	4.54
Uri-II	210	73.79	3.52
Parbati_III	337	58.32	1.73
Total	3414	883.03	2.59
NTPC			
Anta	798	239.38	3.00
Auriya	1675	537.95	3.21
Dadri Thermal	642	208.63	3.25
Dadri Gas Dadri EXT.	1782 695	620.85 257.27	3.48
Rihand-I	2771	665.17	2.40
Rihand-II	2524	688.09	2.73
Singrauli	6265	1148.00	1.83
Tanda	3141	928.42	2.96
Unchahar I	1951	547.71	2.81
Unchahar II Unchahar-III	1099 593	314.56 186.78	<u>2.86</u> 3.15
Farakka TPS	251	101.53	4.04
Kahalgaon St-I	581	163.35	2.81
Kahalgaon Ph-II ST-II	1127	418.72	3.71
Koldam Hydro	597	170.03	2.85
Total	26493	7196.44	2.72
NPCIL			
NAPP	300	64.89	2.16
RAPP RAPP#5&6	223	65.88 81.30	2.78
Total	254 777	212.07	<u> </u>
IPP/JV/Bilateral/ Others		~1~.07	2.13
III / O V/ Dilateral/ Others		352.08	2.83
NATHPAJHAKRI HPS	1944		
NATHPAJHAKRI HPS CO-GEN	1244 1700	622.70	3.66
CO-GEN TALA POWER			
CO-GEN TALA POWER Koteshwar	1700 184 124	622.70 35.89 32.90	3.66 1.95 2.65
CO-GEN TALA POWER Koteshwar Srinagar	1700 184 124 135	622.70 35.89 32.90 35.67	3.66 1.95 2.65 2.65
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III	1700 184 124 135 263	622.70 35.89 32.90 35.67 65.70	3.66 1.95 2.65 2.65 2.50
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo	1700 184 124 135 263 160	622.70 35.89 32.90 35.67 65.70 52.76	3.66 1.95 2.65 2.65 2.50 3.30
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo VISHNUPRAYAG	1700 184 124 135 263 160 1774	622.70 35.89 32.90 35.67 65.70 52.76 437.55	3.66 1.95 2.65 2.65 2.50 3.30 2.47
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo	1700 184 124 135 263 160	622.70 35.89 32.90 35.67 65.70 52.76	3.66 1.95 2.65 2.65 2.50 3.30
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo VISHNUPRAYAG TEHRI STAGE-1 Rosa Power Project Anpara'C'	1700 184 124 135 263 160 1774 1241	622.70 35.89 32.90 35.67 65.70 52.76 437.55 647.38	3.66 1.95 2.65 2.65 2.50 3.30 2.47 5.22
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Anpara'C' Bilateral	$\begin{array}{c c} & 1700 \\ \hline & 184 \\ \hline & 124 \\ \hline & 135 \\ \hline & 263 \\ \hline & 160 \\ \hline & 1774 \\ \hline & 1241 \\ \hline & 3584 \\ \hline & 6424 \\ \hline & 1151 \\ \end{array}$	622.70 35.89 32.90 35.67 65.70 52.76 437.55 647.38 1211.81 1927.20 477.00	3.66 1.95 2.65 2.65 2.50 3.30 2.47 5.22 3.38 3.00 4.14
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo VISHNUPRAYAG TEHRI STAGE-1 Rosa Power Project Anpara'C' Bilateral TOTAL	1700 184 124 135 263 160 1774 1241 3584 6424 1151 73781	622.70 35.89 32.90 35.67 65.70 52.76 437.55 647.38 1211.81 1927.20 477.00 21933	3.66 1.95 2.65 2.65 2.50 3.30 2.47 5.22 3.38 3.00 4.14 2.97
CO-GEN TALA POWER Koteshwar Srinagar Teesta St-III Karcham-Wangtoo VISHNUPRAYAG TEHRI STAGE-I Rosa Power Project Anpara'C' Bilateral	$\begin{array}{c c} & 1700 \\ \hline & 184 \\ \hline & 124 \\ \hline & 135 \\ \hline & 263 \\ \hline & 160 \\ \hline & 1774 \\ \hline & 1241 \\ \hline & 3584 \\ \hline & 6424 \\ \hline & 1151 \\ \end{array}$	622.70 35.89 32.90 35.67 65.70 52.76 437.55 647.38 1211.81 1927.20 477.00	3.66 1.95 2.65 2.65 2.50 3.30 2.47 5.22 3.38 3.30

Table 4-4: Power Purchase Summar	y FY 09-FY 12:
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	2008-09	2009-10	2010-11	2011-12
Name of Power Station/Organisation	Actual	Actual	Proposed	Proposed
Power Procurement(MU)				
UPJVNL	1058	909	912	912
UPRVUNL NPCIL(NAPP & RAPP)	19628 544	20158 636	20789 777	24201 777
NTPC	24191	25731	25896	26493
NHPC	2471	2683	2869	3414
Nathpa Jhakri HPS	1111	1211	1244	1244
Cogeneration and Biomass	1581	1694	1678	1700
VishnuPrayag	1767	1717	1774	1774
Tehri StI Koteshwar	1237	836	1241	1241 124
Tala Power	168	147	184	184
Karcham-WT				160
Srinagar				135
Teesta St-III	1700	1540	1700	263
Others/PTC UI	1760 760	1540 3601	1783 2157	1151
Kanauria chemicals(CPP)	97	137	2157	
Rosa Power Co. Ltd.		41	3584	3584
Anpara'C'				6424
WR	1			
Total Power Procurement (MU)	56,375	61,041	64,888	73,781
Power Procurement Cost (Rs. Crs.)				
UPJVNL UPRVUNL	110 4422	49 4477	87 5690	93 7650
NPCIL(NAPP & RAPP)	134	164	200	212
NTPC	5119	5767	6629	7196
NHPC	489	532	708	883
Nathpa Jhakri HPS	356	321	332	352
Cogeneration and Biomass	490	636	580	623
VishnuPrayag Tehri StI	463 627	395 490	413 611	438 647
Koteshwar	027	490	011	33
Tala Power	31	27	34	36
Karcham-WT				53
Srinagar				36
Teesta St-III Others/PTC	1250	757	697	66 477
UI	526	1864	1014	477
Kanauria chemicals(CPP)	18	44	1011	
Rosa Power Co. Ltd.		8	1143	1212
Anpara'C'				1927
WR PGCIL Charges	1	500	017	057
	524	563	617	657
Payment to UPJVNL against UPERC Order dt.10.10.08			10	10
Total Power Procurement cost (Rs. crs.)	14,560	16,094	18,764	22,601
Power Procurement Cost (Rs./kWh)				
UPJVNL	1.04	0.54	0.96	1.02
UPRVUNL	2.25	2.22	2.74	3.16
NPCIL(NAPP & RAPP)	2.46	2.58	2.57	2.73
NTPC NHPC	2.12 1.98	2.24	2.56 2.47	2.72
Nathpa Jhakri HPS	3.20	2.65	2.67	2.83
Cogeneration and Biomass	3.10	3.75	3.46	3.66
VishnuPrayag	2.62	2.30	2.33	2.47
Tehri StI	5.07	5.87	4.92	5.22
Koteshwar Tala Power	1.85	1.84	1.84	2.65 1.95
Karcham-WT	1.65	1.04	1.04	3.30
Srinagar				2.65
Teesta St-III				2.50
		4.92	3.91	4.15
Others/PTC	7.10			
Others/PTC UI	7.10	5.18	4.70	
Others/PTC UI Kanauria chemicals(CPP)		5.18 3.18		2.20
Others/PTC UI		5.18	4.70 3.19	3.38 3.00
Others/PTC UI Kanauria chemicals(CPP) Rosa Power Co. Ltd.		5.18 3.18		
Others/PTC UI Kanauria chemicals(CPP) Rosa Power Co. Ltd. Anpara'C'		5.18 3.18		

As can be seen from table above, power purchase cost is projected to be Rs.18764 Cr in FY2011& Rs 22601 in FY2011-12, which is in line with the current trended cost. Although a significant part of this increase over the past years may be attributed to the loss assumptions used, load growth and higher-than-usual price escalation in oil and coal price.

4.4 **Power Procurement cost from UPPCL by DisCom:**

The distribution tariff Regulation issued by Hon'ble commission state that the total power purchase cost for distribution licensee's requirement for sale to its consumers shall be estimated on the basis of merit order principle. Presently UPPCL is carrying out the function of power procurement and bulk supply to DisComs. UPPCL purchases power from various generators i.e. central, state generating station, IPPs etc and supply to various DisComs of the state at the bulk supply rate notified by the Commission as till date GOUP has not allocated PPAs to State DisComs. As a result cost of power purchase by the distribution companies from UPPCL would be calculated through bulk supply tariff (BST). The BST has been determined under the principle that all DisComs would have paid the same average price in FY2010-11 & FY2011-12. Power purchase costs by DisCom as described above, are summarized below:

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Energy Procured(MU)	15,672	16,441	17,587
Bulk Supply Tariff (Rs/kWh)	2.86	3.07	3.24
Power Procurement Cost from UPPCL	4475	5039	5696

Table 4-6: Power Purchase Costs by CONSOLIDATED DisCom

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Energy Procured(MU)	56,365	61,217	69,788
Bulk Supply Tariff (Rs/kWh)	2.86	3.07	3.24
Power Procurement Cost from UPPCL	16094	18764	22601

4.5 Transmission & SLDC charges:

4.5.1 Interstate Transmission Charges:

The interstate transmission charges payable by the Consolidated DisCom to PGCIL has been projected to Rs 617 cr for FY 2010-11 and Rs 657 cr for FY2011-12. The PGCIL has been levied on charges energy procured from NTPC,NPCIL,NHPC,SJVNL,Tehri,TALA and others. These charges have been incorporated in Power Procurement Cost. The petitioner submits that while considering power procurement to meet the State requirement, losses external to its system, i.e. in the Northern Region PGCIL system need to be accounted for. The availability of power for the petitioner (i.e. at UPPCL system boundary) from various sources gets reduced to the extent of these losses and the petitioner has accordingly incorporated them while drawing up the energy balance and merit order dispatch for meeting the State requirement.

4.5.2 Intra State Transmission Charges:

The intra state Transmission charges for current year payable by petitioners are on the basis of actual energy received & the uniform charges are to be paid by all the four Distribution Licensees. Actual energy delivered to Distribution Licensee & corresponding Transmission charges are to be provided by the transmission Licensee. Accordingly Licensee has estimated Cost of intra state Transmission charges for ensuing year as well as for the current year in the tables given below. The Transmission licensee is also performing the function of SLDC, as such SLDC cost is embedded in the transmission charges.

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Energy Procured(MU)	15,672	16,441	17,587
Transmission Tariff (Rs/kWh)	0.13	0.15	0.15
Transmission Cost (Rs. Cr)	197	253	270

Table 4-7: Transmission Charges AGRA DisCom:

Dakshinanchal Vidyut Vitaran Nigam Ltd. AGRA DisCom

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Energy Procured(MU)	56,365	61,217	69,788
Transmission Tariff (Rs/kWh)	0.13	0.15	0.15
Transmission Cost (Rs. Cr)	710	942	1070

Table 4-8: Transmission Charges CONSOLIDATED DisCom

4.6 Operation & Maintenance Expenses

Operation & maintenance expenses comprise of Employee costs, Administrative & General Expenses and Repair & Maintenance expenses. The regulation 4.3 of the Distribution Tariff Regulation issued by the Commission stipulates:

- 1- The O&M expenses comprise of employee cost, repairs & maintenance(R&M) cost and administrative & general (A&G) cost. The O&M expenses for the base year shall be calculated on the basis of historical/audited costs and past trend during the preceding five years. However, any abnormal variation during the preceding five years shall be excluded. For determination of the O&M expenses of the year under consideration, the O & M expenses of the base year shall be escalated at inflation rates notified by the Central Government for different years. The inflation rate for above purpose shall be the weighted average of Wholesale Price Index and Consumer Price Index in the ratio of 60:40.Base year, for these regulations means, the first year of tariff determination under these regulations
- 2- Where such data for the preceding five years is not available the Commission may fix O&M expenses for the base year as certain percentage of the capital cost.
- **3** Incremental O&M expenses for the ensuing financial year shall be 2.5% of capital addition during the current year. O&M charges for the ensuing financial year shall be sum of incremental O&M expenses so worked out and O&M charges of current year escalated on the basis of predetermined indices as indicated in regulation 4.3 (1).."

However in last tariff order Commission was of the opinion that a suitable norm for allowance of O&M expenses could be adopted only after undertaking a thorough study of the O&M expenditure based on the past performances, and the cost drivers of the same, through a separate process. Till any such norm for O&M expenditure is determined, the Commission emphasised considering the individual elements of O&M expenditure based on past trends escalated by an inflation Index.

Further in addition to the O&M cost based on inflationary indices based escalation, regulation provides an additional O&M expenses @ 2.5% of the additions to GFA during the previous year. As such this portion of expenses has separately been calculated.

As stated above, in the absence O&M norms petitioner has estimated individual components of O&M expenses based on methodology described in following section.

4.6.1 O&M Expenses on Addition to Assets during the Year:

In addition to the Employee cost , A&G cost and R&M expenses described in the succeeding section, Regulation provide for incremental O&M expenses on addition to assets during the year. Regulation stipulates that *"Incremental O&M expenses for the ensuing financial year shall be 2.5% of capital addition during the current year. O&M charges for the ensuing financial year shall be sum of incremental O&M expenses so worked out and O&M charges of current year escalated on the basis of predetermined indices as indicated in regulation 4.3 (1)."*

Accordingly based on above the incremental O&M has been worked out in following table .The same are allocated across the individual elements of the O&M on the basis of contribution of each element in the gross O&M expenses excluding the incremental O &M charges & 6th Pay Commission installment arrears.

Incremental O&M Expenses @2.5% of capital	FY 2010-11	FY 2010-11	
additions during the year FY2009-10	Agra	Consolidated	
Capitalised Assets during FY2009-10	664.27	2005.91	
Incremental O&M Expenses	16.61	50.15	
a) Employee Costs	9.00	32.26	
b) A&G Expenses	1.58	4.16	
c) R&M Expeses	6.03	13.73	

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Incremental O&M Expenses @2.5% of capital	FY 2011-12	FY 2011-12	
additions during the year FY2010-11	Agra	Consolidated	
Capitalised Assets during FY2009-10	577.09	2862.83	
Incremental O&M Expenses	14.43	71.57	
a) Employee Costs	7.82	47.16	
b) A&G Expenses	1.36	5.34	
c) R&M Expeses	5.24	19.07	

4.6.2 Employee costs:

The projection of employee costs involves a detailed examination of the various components of salary such as basic pay and dearness allowance for the various grades of employees. It would also involve an understanding of the extent of retirements as well as the manpower additions planned. Considering above Petitioner has estimated employee cost for FY2010-11 based on un-audited data of FY2009-10 and data available to date. Here it is also to mention that UPPCL vide order dated 27 Nov 2010 has allowed its employees benefit of Assured Career Progression (ACP) scheme in line with the recommendation of sixth pay commission & GoUP order in this regard. Under this scheme employees of UPPCL are allowed their first, second and third time scale in 09th, 14th & 19th years of their service respectively. Further UPPCL vide order dated 14 August 2010 has allowed applicability of third time scale since 01.01.1996 which was previously allowed on different dates between 01.01.2006 to 19.02.2009. Impact of these order has also been included in estimation of employees cost. Further as per UPPCL order for implementation of Sixth Pay commission the cost burden on account of payment of installment of arrear has also been provided. As per arrear payment schedule the first installment of three months arrear from Jan2006 to March 2006 is due in FY2010-11 and the second installment of arrear for the period April2006 to March 2007 is due in FY2011-12. So burden of arrear has also been included in the employee expenses. Detail of each elements of employees cost has been provided in this section. The employee cost for Consolidated DisCom and AGRA DisCom are computed in following table:

	Item	FY 2009-10	FY 2010-11	FY 2011-12
S.No.	(Rs Crs)	(Unaudited)	(Projected)	(Projected)
1	Salaries	118.57	137.54	150.85
2	Dearness Allowance	38.37	60.17	66.00
3	Other allowances	10.42	12.09	13.26
4	Bonus / exgratia	0.06	3.29	3.61
5	Medical Expenses Reimbursement	1.42	1.55	1.71
6	Leave Travel Assistance	0.06	0.07	0.07
7	Earned Leave Encashment	16.35	17.93	19.66
8	Compensation	1.06	1.23	1.35
9	Staff Welfare Expenses	0.14	0.15	0.17
10	Pension and gratuity	24.61	37.72	41.37
11	Other Terminal benefits	2.22	2.44	2.68
12	Expenditure on trust	-	-	-
13	Any other employee expenses	-	-	-
14	Arrear of Pay Commission/Time Scale	-	12.89	60.14
15	Additional Expenses(@2.5% of capitalised assets)	-	9.00	7.82
	Gross Employee cost	213.27	296.08	368.70
16	Less: Employee Expense Capitalised	82.13	42.48	46.28
	Net charged to Revenue	131.14	253.60	322.41

 Table 4-11: Details of Employee Cost- AGRA DisCom:

	Item	FY 2009-10	FY 2010-11	FY 2011-12	
S.No.	(Rs Crs)	(Unaudited)	(Projected)	(Projected)	
1	Salaries	594.42	689.53	756.29	
2	Dearness Allowance	264.92	301.67	330.88	
3	Other allowances	52.37	60.75	66.63	
4	Bonus / exgratia	6.61	16.51	18.11	
5	Medical Expenses Reimbursement	9.36	10.27	11.27	
6	Leave Travel Assistance	0.06	0.07	0.08	
7	Earned Leave Encashment	67.34	73.86	81.01	
8	Compensation	1.69	1.96	2.15	
9	Staff Welfare Expenses	1.27	1.39	1.52	
10	Pension and gratuity	143.15	189.12	207.43	
11	Other Terminal benefits	6.77	7.43	8.15	
12	Expenditure on trust	0.16	0.18	0.20	
13	Any other employee expenses	0.52	0.57	0.62	
14	Arrear of Pay Commission/Time Scale	-	62.57	292.00	
15	Additional Expenses(@2.5% of capitalised assets)	-	32.26	47.16	
	Gross Employee cost	1,148.65	1,448.14	1,823.48	
16	Less: Employee Expense Capitalised	238.81	207.84	229.72	
	Net charged to Revenue	909.84	1,240.30	1,593.76	

As mentioned above evolution of sub account of employee cost has been forecasted from base figure of FY2009-10 balance sheet and actual figure available till date. While projecting the expenses for ensuing year, petitioner has endeavored to control the employee expenses but cost has increased due to impact of implementation of time scale and arrear of pay commission which is totally beyond the control of the petitioner. Various sub account are estimated as follows:

- **Basic salary**: The petitioner would like to submit that the projected growth in basic salaries in FY2010-11 mainly due to time bound increment, annual increase in pay & implementation of third time scale retrospectively. The combined impact of third time scale, annual increment and time bound increment has been estimated 16% over the basic salary of FY2009-10. Therefore petitioner has estimated basic salaries for FY2010-11 to increase by 16% from FY2009-10 value and for FY2011-12 has been estimated to increase by inflation as provided in the regulation
- **Dearness Allowance (DA)**: In the Pay Scales effective from January 2006 the instalment of Dearness Allowance are due on each 1st January & 1st July of each calendar year. The dearness allowance is incremented every sixth month based on the bench mark set by the central government. For FY2010-11 petitioner has estimated dearness allowance to be 44 %(35% for 3 month, 45% for 6month & 50% for next three month). For FY 2011-12 it has been linked to inflation.
- **Other allowance**: Other allowance for FY2010-11 has been forecast in the ratio as actually incurred in FY2009-10 of basic salary & for FY2011-12 it has been escalated by inflation index.
- Arrear of 6th Pay Commission: First instalment of arrear of 6th Pay Commission for the period Jan 2006 to March 2006 is due in FY2010-11 and same has been paid .The impact of this arrear is estimated to be Rs 12.89 Crs .The second instalment for the period April 2006 to March 2007 is due for payment in FY2011-12 and impact of the same has been estimated to be Rs 60.14 Cr.
- Likewise, Medical Reimbursement, LTA, Earn leave encashment, staff welfare expenses and other terminal benefit have been forecast to increase by inflation index per year from FY2009-10.
- **Pension and Gratuity:** Pension and Gratuity have been calculated at 16.7% and 2.38% (i.e., 19.08%) of Basic Salary and Dearness Allowance.
- As mentioned in clause: an additional incremental expenses of 2.5% of GFA addition during the previous year has also been added
- Employee Expenses Capitalized has been calculated as 15% of total Employee Costs, which is in line with the policy adopted by the commission in its last tariff order.

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4.6.3 Administration and General (A&G) Expenses:

- These expenses are incurred by the petitioner for meeting day-to-day expenses related to the administration of its offices, insurance, communication, professional charges, audit fees, advertisement expenses, freight etc. All these expenses are directly affected by inflation .Therefore A&G expenses have been projected considering the impact of inflation and need for addition of more substation and offices. Forecast A&G expenses for AGRA DisCom and for Consolidated DisCom are summarized below in Tables 4-13 and 4-14 respectively, beginning with the figures from the un-audited statements of FY2009-10.
- As a reflection of the continuing commitment of the Petitioner to keep costs under control, almost all A&G Expenses have been escalated by inflation index per year across the board to offset the effect of inflation.
- In addition to above, regulatory expenses as application fees plus 0.05% of revenue as license fees has been added in A&G expenses in FY2010-11& FY2011-12 which is Rs 2.11 Cr & 2.36Cr respectively for AGRA DisCom and Rs 8.40 Cr & 10.14 Cr for Consolidated DisCom.
- Billing & collection expenses also include expenses related to information technology. Billing & collection expenses relate to expenses incurred due to out sourcing of billing work, use of hand held machines and GIS mapping of consumers. Further petitioner is planning to use various information technology (IT) initiatives such as implementation of software solution, networking (Both local area network & wide area network), retail billing solution, Energy billing System, web based payment solution, Energy accounting system etc to drive operational efficiency improvement. Therefore an additional amount of Rs 2.25 cr has been added under this head each in FY2010-11 and FY2011-12 for AGRA DisCom.
- Capitalized A&G expenses are assumed to be 15 % of A&G cost This is consistent with the approach adopted by the Commission in its current Tariff Order.
- The petitioner has taken several steps for enhancing customer care, system augmentation and computerization for better process management .It has also taken steps to increase communication network with the field units/ persons so as to reduce the down time for restoration of supply and better data management.

- The petitioner is also planning to provide its consumer, the facility for payment of their electricity bills on line through credit cards. This will facilitate the consumer to pay their bills at their convenience .This payment option would be in addition to existing payment option.
- As mentioned in clause:4.6.1 an additional incremental expenses of 2.5% of GFA addition during the previous year has also been added

<i>a</i> -	Item	FY 2009-10	Y 2009-10 FY 2010-11 FY 20	
S.No.	(Rs Crs)	(Unaudited)	(Projected)	(Projected)
1	Rent, Rates & Taxes	0.34	0.37	0.41
2	Insurance	0.22	0.24	0.27
3	Telephone, Postage & Telegrams, Telex charges	2.92	3.21	3.52
4	Legal charges	1.42	1.56	1.71
5	Audit fees	0.05	0.05	0.06
6	Consultancy charges	0.01	0.01	0.01
7	Technical fees and professional charges	-	-	-
8	Conveyance and traveling	1.48	1.63	1.78
9	Regulatory expenses	-	2.11	2.36
10	Electricity Charges	12.16	13.34	14.63
11	Other expenses	21.16	23.21	25.46
12	Billings and Collection Expenses	-	2.25	2.25
13	Additional Expenses(@2.5% of capitalised assets)	-	1.58	1.36
	Total Charges	39.76	49.55	53.81
14	Less: Expense Capitalised	11.49	7.43	8.07
	Net charged to Revenue	28.28	42.11	45.74

Table 4-13: A &G Expenses: AGRA DisComs

Table 4-14: A&G Expenses: Consolidated DisComs:

	Item	FY 2009-10	FY 2010-11	FY 2011-12	
S.No.	(Rs Crs)	(Unaudited)	(Projected)	(Projected)	
1	Rent, Rates & Taxes	1.46	1.60	1.76	
2	Insurance	0.99	1.09	1.19	
3	Telephone, Postage & Telegrams, Telex charges	9.38	10.29	11.29	
4	Legal charges	3.84	4.22	4.62	
5	Audit fees	0.55	0.60	0.66	
6	Consultancy charges	0.43	0.47	0.52	
7	Technical fees and professional charges	1.19	1.31	1.44	
8	Conveyance and traveling	10.98	12.05	13.21	
9	Regulatory expenses	-	8.40	10.14	
10	Electricity Charges	39.79	43.65	47.87	
11	Other expenses	81.80	89.71	98.40	
12	Billings and Collection Expenses	-	9.00	9.00	
13	Additional Expenses(@2.5% of capitalised assets)	-	4.16	5.34	
	Total Charges	150.43	186.55	205.45	
14	Less: Expense Capitalised	31.53	27.98	30.82	
	Net charged to Revenue	118.90	158.57	174.63	

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4.6.4 Gross Fixed Assets (GFA) Balances and Capital Formation Assumptions:

The assumptions used for projecting GFA and CWIP are as follows:

- The opening GFA and CWIP for AGRA DisCom for FY 2010-11have been taken as per the closing figures provisional annual accounts of FY 2009-10.
- 40% the opening CWIP and 40% of investment made during the year, expenses capitalized & interest capitalized (40% of total investment) has been assumed to get capitalized during the year.
- Investment through "deposit work "has not been taken for capital formation as per policy adopted by commission in its last tariff Order. Thus investments in capital formation shown in Table 4-17 don't include work funded through deposit work.

Table 4-15 & 4-16 shows Licensee's investment plan for FY2010-11 and FY2011-12 along with the proposed funding of each component of the investment plan. The detail of activities carried out in each scheme has already been explained in section 2.5.6

• Under the RGGVY programme petitioner has proposed investment funded through equity from GoUP. In the last Tariff Order Commission has assumed only 10% as equity and rest amount treated as grant as envisaged in central government scheme for RGGVY where as GoUP provided entire amount as equity. It is further submitted that under this scheme GoUP provide entire fund required for RGGVY programme in the form of equity as such it is submitted before the Commission that entire fund under RGGVY be treated as equity fund for investment.

DISTRIBUTION INVESTMENT PLAN	AGRA DISCOM FY2010-11				
	Equity	Loan	Grant	Deposit	Total
ABC	43.22	43.97			87.19
Construction of new 33/11 Kv S/S	79.31	80.69			160.00
Capacity Enhancement of 33/11 Kv S/S	18.08	18.39			36.47
Construction of 33 Kv Line	0.51	0.52			1.03
Bifurcation of 33 Kv Lines	1.99	2.03			4.02
Construction of 11 Kv Line	17.88	18.20			36.08
Replacement of 11Kv cables	4.46	4.54			9.00
Construction/Replacement of LT Cables	8.08	8.22			16.30
Capacity Enhancement of Distribution Transformers	8.92	9.08			18.00
Replacement of Old Conductors	13.17	13.39			26.56
Replacement of Damaged Poles	4.16	4.24			8.40
Construction of 11/0.4 Kv S/s	15.61	15.89			31.50
Bifurcation of Industrial feeders	2.97	3.03			6.00
Replacement of 11 Kv Switchgear	6.79	6.91			13.70
Earthing of 11/.4 Kv Transformers	2.54	2.58			5.12
Sub-total	227.70	231.67			459.37
PTW	47.60	0.00			47.60
Vyapar Vikas Nidhi	37.56	0.00			37.56
RGGY	38.31	0.00			38.31
Dr Ambedkar Gram Sabha	15.32	0.00			15.32
R-APDRP Part A		14.05			14.05
R-APDRP Part B		94.55			94.55
Deposit Works				74.90	74.90
GRAND TOTAL	366.49	340.28	0.00	74.90	781.66

Table 4-15: Investment Plan: AGRA DisCom :FY 2010-11

DISTRIBUTION INVESTMENT PLAN	AGRA DISCOM FY2011-12				
I LAN	Equity	Loan	Grant	Deposit	Total
Arial Bunched Conductor	37.50	87.50			125.00
Construction of new 33/11 Kv S/S	36.00	84.00			120.00
Capacity Enhancement of 33 Kv S/S	14.91	34.78			49.69
Construction of 33 Kv Line	11.16	26.04			37.20
Bifurcation of 33 Kv Lines	3.12	7.28			10.40
Construction of 11 Kv Line	9.00	21.00			30.00
Construction of 11/0.4 Kv S/s	9.68	22.58			32.25
Replacement of 11Kv cables/underground cables	3.17	7.39			10.56
Construction/Replacement of LT Cable	9.00	21.00			30.00
Capacity Enhancement of Distribution Transformers	3.38	7.88			11.25
Replacement of Old Conductors	3.95	9.21			13.15
Replacement of Damaged Poles	2.78	6.50			9.28
Bifurcation of Industrial feeders	10.80	25.20			36.00
Bifurcation of rural feeders	7.50	17.50			25.00
Double Metering of Consumers	1.65	3.85			5.50
Earthing of 11/.4 Kv Transformers	3.07	7.17			10.25
Installing of Meters	12.90	30.10			43.00
Replacement of 11 Kv Switchgear	2.10	4.90			7.00
Other distribution works	0.00	0.00			0.00
Sub-total	181.66	423.87			605.53
PTW	71.21	0.00			71.21
Vyapar Vikas Nidhi	37.56	0.00			37.56
RGGY	25.54	0.00			25.54
Dr Ambedkar Gram Sabha	19.15	0.00			19.15
R-APDRP Part A	0.00	79.64			79.64
R-APDRP Part B	0.00	441.26			441.26
Deposit Works	0.00	0.00		104.06	104.06
GRAND TOTAL	335.12	944.76	0.00	104.06	1383.94

Table 4-16: Investment Plan: AGRA DisCom:FY 2011-12

Table 4-17: Capitalisation & WIP of Investment during FY11 & FY 12:

Particulars		Agra	Consolidated	Agra	Consolidated
(Rs Crs)	(Rs Crs) FY2010-11		FY2010-11		11-12
Opening WIP	A	631	2952	866	4294
Investment	В	707	3734	1280	5712
Employee Expenses Capitalisation @15%	C	42	208	46	230
A&G Expenses Capitalisation @15%	D	7	28	8	31
Interest Capitalisation	E	55	235	75	275
Total Investments	F=A+B+C+D+E	1443	7157	2275	10542
Transferred to GFA (Total Capitalisation)	G=40%*F	577	2863	910	4217
Closing WIP	H=F-G	866	4294	1365	6325

Notes: (1) Opening Balances as per provisional figures of FY2009-10.

- (2) Capitalized expenses are from Table 4-11 to 4-14
 - (3) Transfer from WIP to GFA=40% of beginning WIP+40% of total investment, capitalized Interest, Capitalized employee cost, capitalized A&G expenses
- (4) Depreciation expense = 6.82 % of average GFA.

Particulars		Agra	Consolidated	Agra	Consolidated	
(Rs Crs)	(Rs Crs)		FY2010-11		FY2011-12	
Opening GFA	А	2879	11775	3456	14638	
Addition to GFA during the year	В	577	2863	910	4217	
Closing GFA	C=A+B	3456	14638	4366	18854	

Table 4-18: Gross Fixed Assets for FY2010-11 & FY2011-12:

Notes: (1) Opening Balances as per provisional figures of FY2009-10. (2) Addition to GFA is taken from above table.

4.6.5 Repair and Maintenance (R&M) Expenses

The Hon'ble commission in the last Tariff Order has approved R&M expenditure of Rs 109.50 crs for FY2009-10 as against projection of Rs 120.49 cr. As per unaudited balance sheet the actual expenditure incurred by the licensee under R&M expenditure for FY2009-10 is Rs 167.40 Cr. Further for FY2010-11 & FY2011-12 licensee has projected slight increase from FY2009-10. This increase is mainly attributed to substantial increase in raw material and fuel cost. This has substantially increased the cost burden to the petitioner. Moreover, the petitioner has added a number of transformers, cables, grid substation, etc for which there has been an increase in the amount of annual maintenance contracts, this has translated to a higher R&M expenses in the ensuing year for the petitioner. Further petitioner has initiated proactive preventive maintenance and capital expenditure to improve the quality of supply in its distribution area and reduction in number of overloaded transformer etc. The Forecast R&M expenses for the consolidated DisComs and for AGRA DisCom are summarized below in Tables 4-19 and 4-20 respectively, beginning with the provisional figures of FY2009-10.

- In the last ARR petition of FY2009-10 petitioner had estimated R&M Expenses as 4.5% of the opening GFA balances but Commission in its Tariff Order disapprove higher R&M expenses and only approved R&M expenses linked with inflation Index.
- In this ARR petitioner has assumed same methodology as approved in last tariff order rather than linking R&M expenses with GFA .Therefore R&M expenses has been projected from expenses of FY2009-10 and has been increased with Escalation index to offset impact of inflation. As mentioned in clause: 4.6.1 an additional incremental expense of 2.5% of GFA addition during the previous year has also been added.

• Unfortunately due to tight financial position and heavy cash losses, system improvement and preventive maintenance are not achieved to the expected level due to frequent breakdowns and supply interruptions. Petitioner always spent money, which are urgently required for restoration of supply and must do activities. In addition to these planned activities there will be some unforeseen R&M expenses, which are inevitable. It can be seen in Table 4-19 and Table 4-20 that most R&M spending will be in the Plant & Machinery and Lines & Cable Network.

S.No.	Item	FY 2009-10	FY 2010-11	FY 2011-12
S.INO.	(Rs Crs)	(Unaudited)	(Projected)	(Projected)
1	Plant & Machinery	72.96	80.02	87.77
2	Building	0.43	0.47	0.52
3	Civil works	-	-	-
4	Lines, Cable Network, etc	89.13	97.75	107.22
5	Vehicles	4.83	5.30	5.81
6	Furniture & Fixtures	0.02	0.02	0.02
7	Office equipment	0.04	0.04	0.05
8	Additional Expenses(@2.5% of capitalised assets)	-	6.03	5.24
	Total Charges	167.40	189.64	206.62

Table 4-19: R&M Expenses: AGRA DisCom

Table 4-20: R&M Expense: CONSOLIDATED DisCom

S.No.	Item (Rs Crs)	FY 2009-10 (Unaudited)	FY 2010-11 (Projected)	FY 2011-12 (Projected)
1	Plant & Machinery	200.27	219.66	240.93
2	Building	9.01	9.88	10.84
3	Civil works	0.07	0.07	0.08
4	Lines, Cable Network, etc	308.16	337.99	370.72
5	Vehicles	6.84	7.50	8.23
6	Furniture & Fixtures	0.03	0.04	0.04
7	Office equipment	0.20	0.22	0.24
8	Additional Expenses(@2.5% of capitalised assets)	-	13.73	19.07
	Total Charges	524.58	589.10	650.15

4.7 Depreciation expense:

Commission in its Distribution Tariff regulation has specified methodology for computing depreciation. Commission allowed depreciation in its last tariff order on the basis of assessed weighted average depreciation rate and methodology specified in the regulation. In the last Tariff Order Commission approved depreciation on the basis of weighted average depreciation rate of 7.84%.

In Provisional balance sheet of petitioner has charged depreciation Rs 171.00 Crs & Rs195.93 Crs for FY2008-09 & FY2009-10 respectively which is 6.84 % and 6.81 %

of GFA of respective years. The actual rate of depreciation is much lower than the rate approved in last Tariff order as such for projecting depreciation expenses for FY2010-11 & FY2011-12, petitioner has used average depreciation rate of 6.82 %(average of 6.84% & 6.81%).

- Average depreciation rate of 6.82% has been used.
- The depreciation has been charged for the entire year on the opening GFA and pro-rata basis for the assets capitalized during the year.
- Opening GFA for FY2010-11 has been taken from provisional balance sheet of FY2009-10.Opening GFA for FY2011-12 and addition to fixed assets has already been dealt in previous section. Hence based on the same and using above specified average depreciation rate of 6.82% ,the petitioner has calculated depreciation for FY2010-11 & FY 2011-12 in following table:

Particular		Agra	Consolidated	Agra	Consolidated
(Rs Crs)		FY20	10-11	FY20	011-12
Depreciation Rate	А	6.8	2%	6.8	32%
Opening GFA	В	2879.12	11774.91	3456.21	14637.74
Addition to GFA during the year	С	577.09	2862.83	910.11	4216.63
Depreciation on opening GFA + addition during the year	D= (A*B)+(C*A/2)	216.15	585.00	266.89	739.04

Table 4-21: Depreciation Expense: AGRA DisCom

4.8 **Provision for Bad and Doubtful debts:**

Provisions have been made for bad and doubtful debts at 2% of revenue receivables in line with the section 4.4 of UPERC (Terms and Conditions for Determination of Distribution Tariff) Regulations-2006 issued on 6th October 2006. Accordingly the Bad and Doubtful debts have been estimated as 2% of the revenue receivable. In the last Tariff Order Commission disallowed this component due to absence of any clearcut policy. It is further submitted that provision for bad & doubtful debts are accepted accounting principle even in sector like Banking the provisioning of uncollectable dues are considered as a normal commercial practice.

Despite the Commission's views on this component of ARR, It is humbly submitted to the Hon'ble Commission that annual provisioning towards bad and doubtful debts is an accepted method of accounting and also recognized by other State Electricity Regulatory Commissions. The amount, if any, written off towards bad debts is only adjusted against the accumulated provisions in the books, irrespective of the actual amount of bad debts during any particular year. Therefore petitioner maintains that this is a legitimate ARR component. As such petitioner has made provisions for bad debts for FY2010-11 & FY2011-12 in line with the provision provided in the Regulation. The forecast Provision for Bad and Doubtful debts for the Consolidated DisComs and AGRA DisCom are summarized below in Tables 4-22 and 4-23 respectively.

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Revenue Receivable	3,337	3,659	3,885
Percentage of debt Allowed	1%	2%	2%
Provision of Bad debts	32	73	78

Table 4-22: Provision for Bad and Doubtful debts: AGRA DisCom.

Particulars (Rs Cr.)	FY2009-10	FY2010-11	FY2011-12
Revenue Receivable	9,519	10,440	11,052
Percentage of debt Allowed	1%	2%	2%
Provision of Bad debts	90	209	221

Table 4-23: Provision for Bad and Doubtful debts: CONSOLIDATED DisCom

4.9 Interest and Financing Costs:

The interest and finance cost for FY 2010-11 & FY2011-12 are based on current schedule of long-term debt repayment and new debt requirements for capital investment plan & working capital requirement.

The forecast Provision for Interest and Financing Costs of AGRA DisCom are summarized as under beginning with the FY2009-10 provisional figures.

• Interest & financing cost include interest on working capital requirement. Here petitioner would like to submit that working capital requirement of the licensee is more than what commission allowed in its last tariff order based on normative value. It is mainly due to the fact that petitioner is facing severe cash crunch as there is vast difference between revenue assessment of petitioner & commission's

projection therefore petitioner find it difficult to meet out even its power purchase obligation from its revenue assessment. Therefore it is humbly submitted before the Commission to allow working capital requirement as requested.

S No.	Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Projected)	FY 2011-12 (Projected)
1	Gross Interest & Financing Cost	145.36	605.12	615.74
2	DisCount to Consumer	0.10	0.11	0.11
3	Total	145.47	605.23	615.85
4	Less:Interest Capitalised	-	55.28	75.42
5	Net Interest & Finance Cost	145.47	549.94	540.44

Table 4-24: Projected Interest & Finance Cost AGRA DisCom

Table 4-25: Projected Interest & Finance Cost CONSOLIDATED DisCom

S No.	Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Projected)	FY 2011-12 (Projected)
1	Gross Interest & Financing Cost	1,077.29	2,305.08	2,576.79
2	DisCount to Consumer	0.17	0.18	0.18
3	Total	1,077.46	2,305.26	2,576.98
4	Less:Interest Capitalised	46.76	235.15	275.27
5	Net Interest & Finance Cost	1,030.70	2,070.11	2,301.70

4.9.1 Interest on Consumer security deposit:

Section 47(4) of electricity Act 2003 states that "the distribution licensee shall pay interest equivalent to the bank rate or more, as may be specified by the concerned State Commission, on the security referred to in sub- section (1) and refund such security on the request of the person who gave such security".

The Hon'ble commission in last Tariff order allowed interest to consumer on security deposit on opening balance of security deposit at the beginning of the year at prevailing bank rate of 6% as notified by RBI. In this petition interest on security deposit has been computed on same manner. Computation of the same given below:

S No.	Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Projected)	FY 2011-12 (Projected)
1	Opening Balance of Security Deposit	185.73	217.36	256.44
2	Addition During the Year	31.63	39.08	27.13
3	Closing Balance of security Deposit	217.36	256.44	283.57
4	Rate of Interest		6%	6%
5	Interest Payable on Security Deposit	12.37	15.39	17.01

Table 4-26: Consumer security Deposit AGRA DisCom

Table 4-27: Consumer security Deposit CONSOLIDATED DisCom

S No.	Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Projected)	FY 2011-12 (Projected)
1	Opening Balance of Security Deposit	1,147.62	1,247.73	1,438.43
2	Addition During the Year	100.10	190.70	161.51
3	Closing Balance of security Deposit	1,247.73	1,438.43	1,599.94
4	Rate of Interest		6%	6%
5	Interest Payable on Security Deposit	42.40	86.31	96.00

4.10 Other Income:

Other income includes non tariff income such as interest on loans and advances to employee, income from fixed rate investment deposits, interest on loans and advances to licensees and other miscellaneous income from retail sources and revenue support from the GoUP, excluding DPS. Summary of other income is given below beginning with figure from balance sheet of FY2009-10. The amount for FY2010-11& FY2011-12 has been forecast to grow at the rate of inflation index from base data of FY2009-10. The GoUP is likely to provide subsidy to partially cover the revenue shortfalls arising from below CoS tariffs for the Rural Domestic and PTW categories. A portion of these amounts allocated to AGRA DisCom, based on number of PTW and Rural Domestic consumers.

Table 4-28: Other Income: AGRA DisCom

Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Estimated)	FY 2011-12 (Projected)
Other income from Retail Sources	21	23	25
Non Tariff Income	6	7	7
Sub Total	27	29	32
GoUP Subsidy - Rural Domestic and PTW	344	393	606
Sub Total	344	393	606
Total	370	422	638

Table 4-29: Other Income: CONSOLIDATED DisCom

Item (Rs Cr)	FY 2009-10 (Unaudited)	FY 2010-11 (Estimated)	FY 2011-12 (Projected)
Other income from Retail Sources	123	135	148
Non Tariff Income	26	28	31
Sub Total	148	163	178
GoUP Subsidy - Rural Domestic and PTW	1832	2040	3140
Sub Total	1832	2040	3140
Total	1980	2203	3318

4.11 Reasonable return/ Return on Equity:

Under provisions of the Regulations licensees are permitted a return on equity @ 16% which is worked out as under:-

- For equity base calculation debt equity ratio shall be 70:30.
- Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30%.
- Equity amount more than 30% shall be considered as loan.
- Provided that in case the actual equity employed is less than 30%, actual debt and equity shall be considered for determination of tariff.

In the last ARR submission petitioner requested a zero return with the pretext that it will further increase the gap and put extra burdens on the consumers. Same conditions are still prevailing. Thus petitioner preferred not to ask for the same. To bridge revenue shortfall petitioner has to ask for more GoUP subsidy and have to resort to short term loan from market in addition to different measure initiated for productivity improvement. In such a condition when licensee is already burdened with high interest cost due to short term loan to bridge revenue gap, it is unjustified to further widen gap by asking return. However for academic purpose the return on

Particulars (Rs Cr)	FY2009-10	FY2010-11	FY2011-12
Return on Equity			
Regulatory equity at the beginning	1,995.82	2,755.82	2,928.95
Capitalised assets during the year		577.09	910.11
Equity portion of expenditure on capitalised assets		173.13	273.03
Regulatoryequity at the end	2,755.82	2,928.95	3,201.99
Return computation			
Return Regulatory equity at the beginning		440.93	468.63
Return on Equity portion of expenditure on capitalised assets		13.85	21.84
Total return on regulatory equity		454.78	490.47

 Table 4-30: Return on Equity: AGRA DisCom

Table 4-31: Return on Equity: CONSOLIDATED DisCom

Particulars (Rs Cr)	FY2009-10	FY2010-11	FY2011-12
Return on Equity			
Regulatory equity at the beginning	9,413.21	12,260.81	13,119.66
Capitalised assets during the year		2,862.83	4,216.63
Equity portion of expenditure on capitalised assets		858.85	1,264.99
Regulatoryequity at the end	12,260.81	13,119.66	14,384.65
Return computation			
Return Regulatory equity at the beginning		1,961.73	2,099.15
Returnon Equity portion of expenditure on capitalised assets		68.71	101.20
Total return on regulatory equity		2,030.44	2,200.35

4.12 Contribution to contingency reserve:

The contingency reserve creation permitted in the Regulation is up to 0.5% of opening gross fixed assets to be included in the ARR requirement of the petitioner. Accordingly petitioner has estimated contingency reserve for FY2010-11 & FY2011-12 in following table:

Item (Rs Crs)	FY2009-10	FY2010-11	FY2011-12
Opening balance of GFA	2499.07	2879.12	3456.21
Contribution	0.50%	0.50%	0.50%
Contribution to contingency reserve		14.40	17.28

Table 4-32: Contingency Reserve: AGRA DisCom

Table 4-33: Contingency Reserve: CONSOLIDATED DisCom

Item (Rs Crs)	FY2009-10	FY2010-11	FY2011-12
Opening balance of GFA	10878.97	11774.91	14637.74
Contribution	0.50%	0.50%	0.50%
Contribution to contingency reserve	54.39	58.87	73.19

Regulation requires that contingency reserve shall be invested in Govt. securities. As there is a big revenue gap between ARR and revenue forecast ,as such this component will only enhance the Gap and create extra burden on the consumers so for present ARR Licensee is not claiming this component.

4.13 Consolidated Retail & Wheeling Business ARR Summary:

Clause 2.1(2) & (3) of the Term & conditions for determination oF Distribution Regulations provide that ARR/Tariff filing by the Distribution Licensee shall separately indicate Aggregate Revenue Requirement (ARR) for Wheeling function and Retail Supply function embedded in the distribution function. Till such time complete segregation of accounts between Wheeling and Retail Supply Business takes place, ARR proposals for Wheeling and Retail Supply Business shall be prepared based on an allocation statement to the best judgment of the distribution licensee.

Here it is submitted that still complete segregation of account between Wheeling and retail supply has not taken place, therefore petitioner has adopted the basis of allocation of the expenses in line with the methodology used by commission in its last Tariff Order.

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Allocations of Consolidated ARR into wheeling & retail supply for FY2010-11 & FY2011-12 have been estimated into following table:

Particulars	Allocat	t ion %	Alloc	ation FY20	2010-11	
(Rs.Crore)	Wheeling	Supply	Wheeling	Supply	Total	
Power Purchase expenses(Incl PGCIL charges)	0.0%	100.0%	-	18,764.00	18,764.00	
Transmission charges	0.0%	100.0%	-	942.37	942.37	
Employee cost	60.0%	40.0%	868.88	579.25	1,448.14	
A&G expenses	40.0%	60.0%	74.62	111.93	186.55	
R&M expenses	90.0%	10.0%	530.19	58.91	589.10	
Interest charges	90.0%	10.0%	2,152.41	239.16	2,391.57	
Depriciation	90.0%	10.0%	526.50	58.50	585.00	
Gross Expenditure			4,152.60	20,754.12	24,906.72	
Expenses capitalisation						
Employee cost capitalised	60.0%	40.0%	124.70	83.13	207.83	
Interest capitalised	90.0%	10.0%	211.64	23.52	235.15	
A&G expenses capitalised	40.0%	60.0%	11.19	16.79	27.98	
Net expenditure			3,805.07	20,630.68	24,435.75	
Special appropriation						
Provision for Bad& doubtful debts	0.0%	100.0%	-	208.79	208.79	
Provision for contengency reserve	0.0%	100.0%	-	-	-	
Prior period Adjustment	0.0%	100.0%	-	-	-	
Total net expenditure with provision					-	
add: Reasonable Return/Return on Equity	90.0%	10.0%	-	-	-	
Less: Non Tariff Income	0.0%	100.0%	-	(162.69)	(162.69	
Annual Revenue Requirement(ARF	2)		3,805	20,677	24,482	

Table 4-34: Wheeling & Retail supply: ARR FY 2010-11

Particulars (Rs.Crore)	Allocat	t ion %	Allo	cation FY201	1-12
	Wheeling	Supply	Wheeling	Supply	Total
Power Purchase expenses(Incl PGCIL charges)	0.0%	100.0%	-	22,601.00	22,601.00
Transmission charges	0.0%	100.0%	-	1,069.77	1,069.77
Employee cost	60.0%	40.0%	1,094.09	729.39	1,823.48
A&G expenses	40.0%	60.0%	82.18	123.27	205.45
R&M expenses	90.0%	10.0%	585.13	65.01	650.15
Interest charges	90.0%	10.0%	2,405.68	267.30	2,672.97
Depriciation	90.0%	10.0%	665.13	73.90	739.04
Gross Expenditure			4,832.21	24,929.64	29,761.85
Expenses capitalisation					
Employee cost capitalised	60.0%	40.0%	137.83	91.89	229.72
Interest capitalised	90.0%	10.0%	247.74	27.53	275.27
A&G expenses capitalised	40.0%	60.0%	12.33	18.49	30.82
Net expenditure			4,434.30	24,791.74	29,226.04
Special appropriation					
Provision for Bad& doubtful debts	0.0%	100.0%	-	221.05	221.05
Provision for contengency reserve	0.0%	100.0%	-	-	-
Prior period Adjustment	0.0%	100.0%	-	-	-
Total net expenditure with provision					-
add: Reasonable Return/Return on Equity	90.0%	10.0%	-	-	-
Less: Non Tariff Income	0.0%	100.0%	-	(178.44)	(178.44)
Annual Revenue Requirement(ARR)			4,434	24,834	29,269

Table 4-35: Wheeling & Retail supply ARR: FY 2011-12:

The Consolidated Retail & Wheeling Business of ARR along with revenue gap for FY2010-11 & FY2011-12 at current tariff are summarized below in Table 4-36 & Table 4-37 for both AGRA DisCom and Consolidated DisCom

Details (Rs.Crore)	FY 2009-10 Unaudited	FY 2010-11 Estimated	FY 2011-12 Projected
Power Procurement Cost from UPPCL	4475	5039	5696
Transmission Charges	197	253	270
Employee Costs (net of capitalization)	131	254	322
A&G Costs	28	42	46
Repair & Maintenance Expense	167	190	207
Interest & Finance Charges	158	565	557
Provision for Bad and Doubtful Debts	32	73	78
Depreciation	196	216	267
Contingency Reserve	0	0	0
Return on Equity	0	0	0
Total Expenses	5385	6632	7442
Less Other Income	27	29	32
Less GoUP Subsidy	344	393	606
Total Annual Revenue	5015	6211	6804
Revenue from Existing Tariffs	3214	4017	4516
Remaining Gap	1800	2194	2288

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Details	FY 2009-10	FY 2010-11	FY 2011-12
(Rs.Crore)	Unaudited	Estimated	Projected
Power Procurement Cost from UPPCL	16094	18764	22601
Transmission Charges	710	942	1070
Employee Costs (net of capitalization)	910	1240	1594
A&G Costs	119	159	175
Repair & Maintenance Expense	525	589	650
Interest & Finance Charges	1073	2156	2398
Provision for Bad and Doubtful Debts	90	209	221
Depreciation	468	585	739
Contingency Reserve	0	0	0
Return on Equity	0	0	0
Total Expenses	19988	24645	29447
Less Other Income	148	163	178
Less GoUP Subsidy	1832	2040	3140
Total Annual Revenue Requirement	18008	22442	26129
Revenue from Existing Tariffs	12275	16002	19481
Remaining Gap	5733	6439	6648

Table 4-37: Annual Revenue Requirement : CONSOLIDATED DisCom:

5 **Bulk Supply Tariff:**

Based on the approach adopted by commission in last tariff order, petitioner has computed Bulk supply tariff applicable to all DisComs including KesCo based on only Power Purchase cost and sale to DisComs as under for FY2010-11 & FY2011-12.

5.1 Derivation of Bulk Supply Tariff:

The Bulk supply Tariff has been derived in Table 5-1 and shall be applicable to All DisComs, for power acquisition from UPPCL which is a bulk purchaser.

Details (Rs.Crore)	FY2009-10	FY2010-11	FY2011-12
Power Purchase Expenses	16094	18764	22601
Sales to DisComs (MU)	56365	61217	69788
Bulk Supply Tariff (Rs/kWh)	2.86	3.07	3.24

 Table 5-1: Bulk Supply Tariff:

Tariff Design:

5.2 Wheeling charges from Open Access Consumers:-

Tariff for wheeling of electricity has been computed on the basis of costs allocated to the wheeling business as per the allocation statement and the projected electricity units to be wheeled through network in the ensuing tariff period. In addition to this, surcharge as decided by UPERC will be levied in case to case, or otherwise. This is a simple postage stamp method. Wheeling charges are summarized as under for Consolidated DisCom for FY 2010-11 in Table5-2 and for FY 2011-12 in Table 5-3. These wheeling charges will be same for all DisComs.

 Table 5-2: Wheeling Tariff: CONSOLIDATED DisCom: FY 2010-11

Detail	Units	FY2010-11
Net Distribution Wheeling Function ARR	Rs Cr	3,805.07
Retail Sale by licensees	MU	46,591.29
Wheeling Charges	Rs/kWh	0.82

Detail	Units	FY2011-12
Net Distribution Wheeling Function ARR	Rs Cr	4,434.30
Retail Sale by licensees	MU	54,176.17
Wheeling Charges	Rs/kWh	0.82

Table 5-3: Wheeling Tariff: CONSOLIDATED DisCom: FY 2011-12

5.3 Retail Tariff Design:

Licensee is not proposing any hike in present tariff. In some categories only minor changes in general terms and conditions of time of day billing structure has been proposed and a new category HV-5 for "Arc/induction furnace, rolling /rerolling mills and mini steel plants" has been created by separating these consumers from HV-2.

The Rate and Charges applicable for FY 11 & FY 12 are summarized in the following Table:5-4

E.

PROPOSED ELECTRICITY TARIFF				
RATE CONSUMER ARR & TARIFF SCHEDULE CATEGORY FY 2010-11 & FY 2011-12				
LMV-1		PROPOSED TARIFF		
	DOMESTIC LIGHT, FAN & POWER:	FROFOSED TARIFF		
(a)				
(i)	Un-Metered:			
(11)	Fixed Charge:	₹ 125.00 per connection/month		
(ii)	Metered:	₹ 15.00 per kW/month		
	Fixed Charge: Energy Charge:	₹ 15.00 per kW/month ₹ 1.00 per kWh		
(b)	Supply at single point for bulk loads:	V 1.00 per KWII		
(~/	Fixed Charge	₹ 40.00 per kW/month		
	Energy Charge	₹ 3.20 per kWh		
(c)	Other Metered Domestic Consumers:	(one person		
1.	Life Line Consumers: For consumers with contracted load of 1.00 kW			
	and Energy consumtion upto 100 kWh/Month & above 100 kWh upto			
	150 kwh/month Fixed Charge	₹ 50.00 per kW/month		
	Energy Charge	Collog Per Milly Montal		
	Upto 100 Units/month	₹ 1.90 per kWh		
	Above 101 & upto 150 Units/month	₹ 2.50 per kWh		
2.	Others:	F (5.00 1147/		
	Fixed Charge Energy Charge	₹ 65.00 per kW/month		
	Upto 200 kWh/Month	₹ 3.45 per kWh		
	Above 200 kWh/Month	₹ 3.80 per kWh		
LMV-2	NON-DOMESTIC LIGHT, FAN & POWER:	PROPOSED TARIFF		
(a)	Consumers getting supply as per "Rural Schedule"			
1.00	Un-Metered			
(i)	Fixed Charge	₹ 200.00 per connection/month		
(ii)	Metered	(200.00 per connection) month		
	Fixed Charge	₹ 50.00 per kW/month		
	Energy Charge	₹ 1.90 per kWh		
(b)	Private Advertising/S Post/Sign Board/Glow Signs/Flex:			
	Metered			
	Fixed Charge	Nil		
	Energy Charge Minimum Charge	₹ 10.00 per kWh ₹ 1000.00 per kW/month		
(c)	Other Metered Consumers: (For All Units Consumed)	V 1000.00 per KW/ monut		
		₹ 115.00 per kW/month		
	Fixed Charge Energy Charge	₹ 4.95 per kWh		
	Minimum Charge	₹ 345.00 per kW/month		
LMV-3	PUBLIC LAMPS:	PROPOSED TARIFF		
(a)	Un-Metered Supply:			
	(Billed on total Connected Load of individual points)			
	Gram Pachayat	₹ 1200.00 per kW or part theteof/month		
	Nagar Palika and Nagar Panchayat	₹ 1500.00 per kW or part theteof/month		
	Nagar Nigam	₹ 1800.00 per kW or part theteof/month		
(b)	Metered Supply:(All Loads)			
	Fixed Charge			
	Gram Pachayat	₹ 115.00 per kW/month		
	Nagar Palika and Nagar Panchayat	₹ 120.00 per kW/month		
	Nagar Nigam	₹ 125.00 per kW/month		
	Energy Charge			
	Gram Pachayat	₹ 4.00 per kWh		
	Nagar Palika and Nagar Panchayat	₹ 4.50 per kWh		
	Nagar Nigam	₹ 4.90 per kWh		

Table 5-4: Proposed Rate Schedule: ARR FY 2010-11 & FY 2011-12

	PROPOSED ELECTR	RICITY TARIFF		
RATE SCHEDULE	CONSUMER CATEGORY	ARR & TARIFF FY 2010-11 & FY 2011-12		
LMV-4	LIGHT, FAN & POWER FOR PUBLIC & PRIVATE INSTITUTION:	PROPOSED TARIFF		
(A)	For Public Institutions:			
	Fixed Charge	₹ 100.00 per kW/month		
	Energy Charge	₹ 4.60 per kWh		
10.000	Minimum Charge			
(B)	For Private Institutions:			
	Fixed Charge	₹ 110.00 per kW/month		
	Energy Charge	₹ 4.95 per kWh		
LMV-5	Minimum Charge	Nil		
LIVI V-5	SMALL POWER FOR PRIVATE TUBE WELL/ PUMPING SETS FOR IRRIGATION PURPOSES:	PROPOSED TARIFF		
(A)	Consumers getting supply as per "Rural Schedule"			
(i)	Un-Metered Supply			
	Fixed Charge	₹ 75.00 per BHP/month		
	Maximum Lighting Load	120.00 Watts		
(ii)	Metered Supply Fixed Charge	₹ 15.00 per BHP/month		
	Energy Charge	₹ 0.75 per kWh		
	Minimum Charge	₹ 65.00 per BHP/month		
(B)	Consumers getting supply as per "Urban Schedule(Metered Supply)"			
	Fixed Charge	₹ 30.00 per BHP/month		
	Energy Charge	₹ 2.00 per kWh		
	Minimum Charge	₹ 130.00 per kW/month		
LMV-6	SMALL AND MEDIUM POWER:	PROPOSED TARIFF		
(A)	Consumers getting supply other than "Rural Schedule"			
	Fixed Charge	₹ 115.00 per kW/month		
	Energy Charge	₹ 4.95 per kWh		
	Minimum Charge	₹ 500.00 per kW/month		
	TIME OF DAY	TOD RATES		
	0800hrs-1200 hrs	(-)5.0%		
	1200hrs-1800 hrs 1800 hrs-2200 hrs	0 (+) 10%		
	2200 hrs-0800hrs	0		
(B)	Consumers getting supply as per "Rural Schedule"	Consumers getting supply as per Rual Schedule shall be eligible for a Rebate of 15% on Fixed charge,Energy charge and and minimum charges as indicated above		
LMV-7	PUBLIC WATER WORKS	PROPOSED TARIFF		
(A)	Consumers getting supply other than "Rural Schedule"			
	Fixed Charge	₹ 90.00 per kW/month		
	Energy Charge	₹ 4.40 per kWh		
	Minimum Charges	Nil		
	TIME OF DAY	TOD RATES		
	0800hrs-1200 hrs 1200hrs-1800 hrs	(-)5.0%		
	1800 hrs-2200 hrs	(+) 10%		
	2200 hrs-0800hrs	0		
(B)	Consumers getting supply as per "Rural Schedule"	Consumers getting supply as per Rual Schedule shall be eligible for a Rebate on Fixed charge and Energy charge as indicated above.		
LMV-8	STW, PANCHAYTI RAJ TUBE WELL & PUMPED CANALS:	PROPOSED TARIFF		
(i)	Metered			
X-7	Fixed Charge	₹ 100.00 per BHP/month		
	Energy Charge	₹ 4.40 per kWh		
(ii)	Un-Metered	•		
1000	Fixed Charge	₹ 1000.00 per BHP/month		

	PROPOSED ELECTRICITY TARIFF						
RATE	RATE CONSUMER			ARR & TARIFF			
SCHEDU	JLE	CATEGORY	FY 2010-11 & FY 2011-12				
LMV-	.9	TEMPORARY SUPPLY:		PROPOSED	TARIFF		
((A)	Un-Metered					
	(i)	Fixed Charges for Illumination/Public Address/ceremonies for	₹ 1800.00	per day			
		loads upto 20 kW /connection plus Rs.100/kW/day for each additional kW	2				
	(ii)	Fixed charges for tem. shops set-up during festivals/melas and having load up to 2 KW	₹ 120.00	per day/shop			
((B)	Metered					
		Energy Charge					
		(i) Individual Residential Construction	₹ 4.00	per kWh			
		(ii) Others	₹ 5.75	per kWh			
			₹ 115.00	per kW/week			
		Minimum Charge:		t of week shall be tr	eated as full week		
LMV-1	10	DEPT.EMPL. AND PENSIONERS:		PROPOSED			
1	(A)	Un-Metered	Fixed	l Charge	Fixed Monthly Energy		
	(2.1)	la construction de la constructi		Month	Charge		
		Category	•	Monut			
		Class IV employees/ Operating staff	₹ 65.00		₹ 75.00		
		Class III employees	₹ 65.00		₹ 105.00		
		J E & equivalent posts.	₹ 135.00		₹ 220.00		
		A E & equivalent posts	₹ 135.00		₹ 345.00		
		E E & equivalent posts	₹ 135.00		₹ 370.00		
		SE/D.G.M & equivalent posts	₹ 340.00		₹ 450.00		
		C E (I & II)/General Managers and above	₹ 340.00		₹ 550.00		
		Add.Charge for using A.C : Rs/month per A C (April to Sept.)	₹ 450.00				
		Additional Charge for E D	and the second		ried in addition at the rates as may		
	12210	Metered Supply	be notified by the State Government from time to Metered consumers under this category shall be charge applicable to "other metered consumers"				
	(B)	incicicu suppry			-		
((C.)	Consumers getting supply as per "Rural Schedule"	Consumers getting supply as per Rual Schedule shall be eligible for a Rebate of 15% on all charges as indicated above.				
HV-1	Ľ	NON-INDUSTRIAL BULK LOAD	PROPOSED TARIFF				
		CommercialLoads/PrivateInstitutions/Non-Dom.Bulk					
		Power with contracted Load 75 kW & above and getting					
		supply at single point on 11 kV & above voltage levels:					
	(-)						
	(a)	Demand Charges	# 105 00	1374 /			
		For Supply at 11 kV	₹ 195.00	per kVA/month			
	(1.)	For Supply at 33 kV & above	₹ 185.00	per kVA/month			
	(b)	Energy Charge					
		For Supply at 11 kV	₹ 4.30	per kVAh/month			
		For Supply at 33 kV & above	₹ 4.20	per kVAh/month			
		Public Institutions with contracted load of 75 kW & above					
		and getting supply at Single point on 11 kV & above voltage levels:					
	(a)	Demand Charges					
		Demand Charges For Supply at 11 kV	₹ 165.00	per kVA/month			
	21.62	For Supply at 11 kV					
	ti fic	For Supply at 11 kV For Supply at 33 kV & above	₹ 165.00 ₹ 155.00	per kVA/month per kVA/month			
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge	₹ 155.00	per kVA/month			
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge For Supply at 11 kV	₹ 155.00 ₹ 4.05	per kVA/month per kVAh/month			
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge For Supply at 11 kV For Supply at 33 kV & above	₹ 155.00	per kVA/month per kVAh/month per kVAh/month	TEC		
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge For Supply at 11 kV For Supply at 33 kV & above TIME OF DAY	₹ 155.00 ₹ 4.05	per kVA/month per kVAh/month per kVAh/month TOD RA			
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge For Supply at 11 kV For Supply at 33 kV & above TIME OF DAY 0800hrs-1200 hrs	₹ 155.00 ₹ 4.05	per kVA/month per kVAh/month per kVAh/month TOD RA (-)5.09			
	ti fic	For Supply at 11 kV For Supply at 33 kV & above Energy Charge For Supply at 11 kV For Supply at 33 kV & above TIME OF DAY	₹ 155.00 ₹ 4.05	per kVA/month per kVAh/month per kVAh/month TOD RA	6		

		PROPOSED ELECTI	RICITY TA	RIFF			
RAT SCHEE		CONSUMER CATEGORY		ARR & T/			
HV		LARGE AND HEAVY POWER:		FY 2010-11 & FY 2011-12 PROPOSED TARIFF			
				rkorosed	TAKIFF		
		Consumers on 0.40 kV Supply :	(+	(+)15 % as per 11kV supply schedule			
		On Rate of Charge Consumers at 11 kV & above Supply :					
	(A)	Urban Schedule	-				
		BASE RATE	For supply at 11 kV	For supply above 11 kV and up to & including 66 kV	For supply above 66 kV and up to & including 132 kV	For supply above 132 kV	
		(1)LARGE AND HEAVY POWER:					
		Demand Charges (Rs /kVA/Month)	₹ 230.00	₹ 220.00	₹ 200.00	₹ 200.00	
		Energy Charge (Rs/kVAh)	₹ 4.60	₹ 3.85	₹ 3.75	₹ 3.75	
		Minimum Charge (Rs/kVA/Month)	1. The second	-		-	
		TIME OF DAY		TOD RA			
		2200hrs-0600 hrs		(-)7.59	%		
		0600 hrs-1700 hrs 1700 hrs-2200hrs		0 (+) 15	0/		
	(B)	Rural Schedule:	(+) 15% This Schedule shall be applicable only to consumers getting supply upto 1 kV as per "Rural Schedule". The consumers under this category shall be entitled to a rebate of 15% on "Rate of Charge" as given for 11kV consumers under urban schedule without TOD Rate.				
HV-	-3	RAILWAY TRACTION:		PROPOSED	TARIFF		
	(A)	RAILWAY TRACTION:					
	(a)	Demand Charge					
		For supply at & above 132 kV Below 132 kV	₹ 180.00 ₹ 200.00	per kVA/month per kVA/month			
	(b)	Energy Charge	200.00	per kv A/ monur			
	1000	For supply at & above 132 kV	₹ 3.75	per kVAh			
		Below 132 kV Minimum Charge	₹ 3.85 ₹ 425.00	per kVAh per kVA/month			
ŀ	(B)	DELHI METRO RAIL	(425.00	per KVA/ monut			
ľ		For supply at 132 kV or below					
		Energy Charge	₹ 3.80 ₹ 425.00	per kVAh per kVA/month			
HV	-4	Minimum Charge	₹ 425.00				
	1.5	LIFT IRRIGATION WORKS		PROPOSED	TARIFF		
· · · · · ·	(a)	Demand Charge	B 050 00	1111.1 .1			
		For Supply at 11 kV For Supply above11 kV &up to 66 kV	₹ 250.00 ₹ 240.00	per kVA/month per kVA/month			
		For Supply above 66 kV&up to 132 kV	₹ 220.00	per kVA/month			
	(b)	Energy Charge		- 100 11711			
		For Supply at 11 kV For Supply above11 kV &up to 66 kV	₹ 4.80 ₹ 4.00	per kVAh per kVAh			
		For Supply above 66 kV& up to 132 kV	₹ 3.90	per kVAh			
	(c)	Minimum Charge	₹ 500.00	per kVA/month			
HV-	-5	ARC/INDUCTION FURNACES & ROLLING MILLS & MINI STEEL PLANTS	PROPOSED TARIFF				
		Consumers on 0.40 kV Supply :		145.00	and the second second		
		On Rate of Charge	(*	⊦)15 % as per 11kV	supply schedul	e	
		Consumers at 11 kV & above Supply :					
	(A)	Urban Schedule BASE RATE	For supply at 11 kV	For supply above 11 kV and up to & including 66 kV	For supply above 66 kV and up to & including 132 kV	For supply above 132 kV	
		Demand Charges (Rs/kVA/Month)	₹ 1650	₹ 1500		₹ 1350	
		Energy Charge (Rs/kVAh)	₹ 1.70	₹ 1.50	₹ 1.20	₹ 1.20	
		Minimum Charge (Rs/kVA/Month)	-	-	-	-	
1		TIME OF DAY 2200hrs-0600 hrs		TOD RA			
		0600 hrs-1700 hrs		(-)7.59	/0		
		1700 hrs-2200hrs		(+) 15	0%		
	(B)	Rural Schedule:	This Schedule shall be applicable only to consumers getting supply upto 11 as per "Rural Schedule". The consumers under this category shall be entitled a rebate of 15 % on TRate of Charge" as given for 11kV consumers under urb schedule without TOD Rate.			shall be entitled to	

Table 5-5: Meeting the Gap:

Details (Rs.Cr)	Agra DisCom	Consolidated DisCom
Annual Revenue Requirement	7410	29269
Revenue from Existing Tariff	4516	19481
Revenue Gap Without Subsidy	2894	9788
Less GoUP Subsidy	606	3140
Revenue Gap to be met through Additional Subsidy from GoUP/Loan from Bank/Financial Institutions	2288	6648

Prayer:

The petitioner prays that the Commission may be pleased to:

- > Admit the accompanying Annual Revenue Requirement for FY 2010-11 & FY 2011-12
- > Approve the Annual Revenue Requirement for financial year FY 2010-11 & FY 2011-12
- > Approve the amendments in the terms and conditions of present Tariff structure.
- > Allow the petitioner to add/change / alter / modify this application at a future date.
- Issue any other relief, order or direction which the commission may deem fit.
- Hon'ble Commission may condone the delay in submission of ARR FY 2010-11 & FY 2011-12..

