

Revised Multi Year Revenue Requirement
for
FY 2010-2014

Main Text and Formats

Submitted to

Rajasthan Electricity Regulatory Commission
Jaipur

By

Jaipur Vidyut Vitran Nigam Limited

Jaipur

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Notes:

In this Application:

(n-1) Year is defined as Financial Year 2007 – 2008 (referred to as FY 08)

(n) Year is defined as Financial Year 2008 – 2009 (referred to as FY 09)

(n+1) Year is defined as Financial Year 2009 - 2010 (referred to as FY 10)

(n+2) Year is defined as Financial Year 2010 - 2011 (referred to as FY 11)

(n+3) Year is defined as Financial Year 2011 - 2012 (referred to as FY 12)

(n+4) Year is defined as Financial Year 2012 - 2013 (referred to as FY 13)

(n+5) Year is defined as Financial Year 2013 - 2014 (referred to as FY 14)

All currency figures used in this Application, unless specifically stated otherwise, are in Rs Crores.

All energy unit figures used in this Application, unless specifically stated otherwise, are in Million Units.

List of Abbreviations

Application	The application for approval of MYR for FY 10-14
MYR	Multi Year Revenue
BST	Bulk Supply Tariff
CAGR	Compounded Annual Growth Rate
DS	Domestic Service
EHT	Extra High Tension
EA 2003	Electricity Act, 2003
FRP	Financial Restructuring Plan
FY 08	Financial Year 2007-2008
FY 09	Financial Year 2008-2009
FY 10	Financial Year 2009-2010
FY 11	Financial Year 2010-2011
FY 12	Financial Year 2011-2012
FY 13	Financial Year 2012-2013
FY 14	Financial Year 2013-2014
GFA	Gross Fixed Assets
GoI	Government of India
GoR	Government of Rajasthan
GSS	Grid Sub Station
HT	High Tension
Jaipur Discom, JVVNL	Jaipur Vidyut Vitran Nigam Ltd.
kVA	Kilo Volt Ampere
kW	Kilo Watt
kWh	Kilo Watt Hour or Unit
LT	Low Tension
MDI	Maximum Demand Indicator
MIP	Medium Industrial Power
MU	Million Units
NDS	Non-Domestic Service
NFA	Net Fixed Assets
PWW	Public Water Works
Regulations	RERC (Terms & Conditions for Determination of Tariff) Regulation, 2009
RERC, Commission	Rajasthan Electricity Regulatory Commission
RVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
RVUN	Rajasthan Rajya Vidyut Utpadan Nigam Limited
REC	Rural Electrification Corporation
Rs.	Indian Rupees
RSEB/Board	Rajasthan State Electricity Board
SIP	Small Industrial Power
SLDC	State Load Despatch Centre
STU	State Transmission Utility
The licensee/utility	Jaipur Vidyut Vitran Nigam Ltd.

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A1: INTRODUCTION

- 1.1 Section 61 of the Electricity Act, 2003 empowers the State Regulatory Commissions (RERC in this case) to specify the terms and conditions for the determination of tariff and specifies that in doing so, the Commission shall inter alia be guided by multi year tariff principles (Section 61 (f)). As per the provisions of the Act, while prescribing regulations for the licensees in the state, the State Commission would also be guided by the regulations prescribed by Central Electricity Regulatory Commission.
- 1.2 The Central Electricity Regulatory Commission has issued revised regulations for the second control period starting from April 1, 2009 on January 19, 2009. Based on revised regulations issued by CERC, Rajasthan Electricity Regulatory Commission (RERC) has revised the earlier regulation 2004 and notified Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulation, 2009 for the second control period starting FY 2009-10 on January 23, 2009.
- 1.3 Jaipur Discom had filed the ARR for the first control period starting from FY 07 to FY 09 in FY 08 to fulfill the regulatory requirement of the RERC. In the first control period, the licensee submitted the ARR in accordance with the regulation 2004 and the formats issued by the Commission for the first control period.
- 1.4 As per Regulation 8(2) of RERC Terms and Conditions of Tariff Regulations 2009, the licensees have to file the expected aggregate revenue and the estimated expenditure for the ensuing year by November 30 every year. However, as the revised regulations were only notified in January 23, 2009, honourable Commission has allowed the licensee to file the expected aggregate revenue and estimated expenditure by February 28, 2009.
- 1.5 The licensee filed petition with the Commission for determination of Multi-year Revenue Requirement for FY 10-14 and True-up for FY 08 on 28th February 09. The Commission had preliminary hearing on maintainability and validation of data on 6th April 2009. The Commission issued interim order on 15th April 09. directing the Discom as under:
- (a) To file the Revised Petition before 5th May 09 (the date was later extended to 20th May 09) based on the the revised petitions submitted by RVUN and RVPN.
- The Discom based on above directions is submitting this revised petition based on the revised petition of RVUN and RVPN.
- (b) To submit supporting data for revising the current norm for consumption of Agriculture Flat Rate consumers.

The Discom is presently collecting aforesaid information and will submit it as soon as possible.

- (c) To submit petition for determination of Wheeling Charges.

The Discom is collecting and compiling the required information for determining Wheeling charges and will submit separate petition shortly.

- (d) Proposed steps to cover the gap between revenue required and revenue generated from existing tariff.

The Discom has enlisted the steps to bridge the revenue gap later in this petition.

- 1.6 The Commission had earlier approved ARR for FY 09 vide order dated September 11, 2008. The licensee has strived to conform to the estimates approved by the Commission as far as possible. However, the changes in consumer mix and changes in the policy decision on number of assured hours of supply to Agriculture consumers have resulted in actual sales to certain consumer categories being different from the energy sales approved by the Commission. This has also resulted in additional short term procurement of power to meet the energy demand. The licensee presently has actual sales figures for FY 09 (till December 2008) and has utilised the trend to revise the energy sales for FY 09 and also the expected aggregate revenue requirement for FY 09.
- 1.7 The licensee has utilised Audited Financial Accounts for FY 2007-08 (n-1 year) and the latest available commercial information on sales and power procurements as basis to prepare the expected aggregate revenue requirements for the period FY 2009-10 to FY 2013-14. In this revised petition, the power purchase and transmission cost has been revised based on the petitions filed by RVUN (for stations KTPS, STPS, RGTPS, Mahi, MMH and Dholpur) and RVPN respectively.
- 1.8 The licensee would like to mention that though it has revised the power purchase cost and transmission cost based on the revised petitions as submitted by RVUN and RVPN as per directions in the interim order dated 15.4.2009, but not necessarily agree with same. The Discom being a Respondent againsts the Petitions of RVUN and RVPN would like reserve its right to make comments/objections on the petitions of RVUN and RVPN. The Discom shall separately furnish its comments / objections on revised petitions of RVUN and RVPN.
- 1.9 The Discom request the Hon'ble Commission to consider approved Petitions of the RVUN and RVPN as the basis of power purchase cost and transmission cost in the MYR of the Discom.

A2: ARR FY 08 – Comparison of Actual with Order

2.1 In the ARR order for the year FY 09 dated 11.09.2008, the Commission had allowed that the revenue requirements for FY 08 to be taken as allowed from the previous order dated 31.03.07. The audited accounts of licensee have been finalised and Table 1 below provides a comparison of the Commission's order vis a vis the actual.

Table 1: Comparison of Allowed ARR for FY 08 with Actuals

S. No.	Particulars	Approved	Actual	Deviation
1	Power Purchase Expenses	2,469.06	3,393.29	924.23
2	Operation & Maintenance Expenses			
2.1	Employee Expenses	337.98	265.07	(17.30)
2.2	Administration & General Expenses		33.11	
2.3	Repair & Maintenance Expenses		22.49	
3	Depreciation, including advance against depreciation	109.66	120.43	10.77
4	Interest on Long-term Loan Capital	159.70	133.42	(26.28)
5	Interest on Working Capital and on consumer security deposits	96.71	207.38	110.67
6	Other Expenses (Other Debit, expense capitalization & Finance charges)	(71.18)	(35.09)	36.09
7	Income Tax		-	
8	Transmission Charges paid to Transmission Licensee	279.29	292.00	12.71
9	NLDC/RLDC/SLDC Charges	8.01	8.01	-
10	Contribution to contingency reserves		-	
	Total Expenditure	3,389.23	4,440.12	1,050.89
B	Return on Equity	59.29	Nil	Nil
C	Revenue			
1	Revenue from sale of electricity	3146.39	3,200.58	54.19
2	Other Income	39.42	93.06	53.64
D	Revenue Deficit	203.42	1146.48	943.06

* post tax return on equity of Rs. 59.29 Cr. as allowed by commission in its order is already included in the interest and security deposit allowed.

- 2.2 As evident from above, the actual gap in revenue for FY 08 of Rs. 1146.48 Crores has been higher than Rs. 943.06 Crores as allowed by the Commission in its ARR Order for FY 08. A significant portion of the actual higher revenue gap can be attributed to a significant increase in the actual power purchase cost of Rs. 3,393.29 Crores against as estimated by the licensee in its ARR application (Rs. 2,469.06 Crores) which is beyond the control of the licensee.

A3: Energy sales and requirements

- 3.1 As prescribed in the Clause 111 of the Regulations, the licensee has utilised past growth in consumers, connected load and energy sales to forecast the category-wise energy sales during the next control period. Other factors affecting the energy sales for various customer class has also been considered while projecting the sales.
- 3.2 However, during the Control Period, following events could necessitate a review of the Sales Forecast submitted as part of Annual Review of Performance as per the provisions of Clause 8 of the Regulations. In such cases, the revenue requirement may be adjusted as any such variation is reasonably beyond the control of the licensee.
- (a) The impact of any variance (positive or negative) in the industrial sales forecasted due to shifting of consumers into open access or decline in consumption due to economic recession
- (b) Change in hours of supply to rural areas and agricultural consumers from the levels taken in the forecast by the licensee for any year in the Control Period, resulting in increased actual input to rural areas.
- (c) Migration of eligible Open Access consumers from the licensee
- 3.3 The variance in energy sales would change power procurement cost and annual revenue requirement and affect the profitability of the Discoms. Hence, licensee requests to allow the licensee to present its case for the revised energy sales at the time of Annual Review of Performance with suitable measures to adjust such aggregate variance.

Past 6 years' energy sales

- 3.4 The Table 2 summarises the past six-year energy sales trend for different consumer categories.

Table 2: Past trend in energy sales (Million Units)

Category (Sales In MU)	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	5 Yr CAGR
Domestic	1271	1298	1418	1493	1620	1911	9%
Non-Domestic	451	473	529	572	647	780	12%
Public Street Light	40	42	45	51	55	61	9%
Agriculture (Metered)	363	432	624	711	884	1351	30%
Agriculture (Flat)	928	977	966	929	1017	1047	2%
Small Industry	189	187	203	213	222	238	5%
Medium Industry	291	314	357	394	423	485	11%
Large Industry	1183	1349	1585	1856	2071	2460	16%
Public Water Works (S)	115	125	142	159	170	183	10%
Public Water Works (M)	25	25	26	28	29	30	4%
Public Water Works (L)	77	81	83	87	90	97	5%

Mixed Load	89	96	103	139	165	186	16%
Electric Traction	252	237	236	259	281	297	3%
Total Sales	5275	5636	6318	6893	7672	9126	12%
Subsidising Categories	2713	2929	3310	3759	4152	4817	12%
Subsidised Categories	2562	2707	3008	3133	3520	4309	12%
Energy sold to Metered Categories	4347	4658	5352	5963	6655	8079	13%

3.5 All the consumer categories have shown growth in energy sales and the subsidising categories too has grown at a healthy growth of 12%. Also there has been a 13 % increase in the energy sold to metered categories. The growth in energy sales in the past six years can be attributed to the following:

- (a) The policy decision by the licensee to release all pending application for connections in Domestic category and to improve the availability of energy in the rural areas by increasing the hours of supply to all areas having population above five thousand and wherever feeder renovation program has resulted in reduced losses.
- (b) The Agriculture sales have increased due to additional release of connections and increase in capacity of pump-sets due to fall in water table.
- (c) The industries have shown healthy consumption due to general industrial growth experienced by the country as a whole during the period.

3.6 From the above, it is observed that sales to consumer categories have been dependent on various extraneous variables like increase in consumers, increase in supply hours and industrial revival. Therefore, the projection for sales from FY 09 till FY 14 have been done taking into account the recent trend in energy sales and also the variables which are going to affect the energy sales.

Energy Sales Projections for FY 09 (Revised)

3.7 The energy sales for FY 09 in this petition have been revised from the earlier projections made as part of the licensee's ARR petition for FY 09 based on the latest available information till December 2008 and the estimated sales for the period Jan 09-Mar 09.

Actual data available for the first eight months (April – December) of FY 09

3.8 The licensee presently has the actual energy sales information for April 08 to December 08 and the same has been summarised below in the Table 3

Table 3 April to December Consumption (Million Units)

Category	Apr-Dec FY 08	Apr-Dec FY 09	% Increase
Domestic	970	1719	77%
Non-Domestic	402	659	64%
Public Street Light	28	54	95%
Agriculture Metered	475	1232	159%
Agriculture Flat	511	825	61%
Industry Small	120	180	49%
Industry Medium	241	387	61%
Industry Large	1226	2047	67%
Public Water Works(Small)	90	146	62%
Public Water Works(Medium)	15	22	43%
Public Water Works(Large)	48	73	51%
Bulk Supply to Mixed Load	99	190	93%
Electric Traction	145	207	43%
Total	4372	7741	77%

Revised Energy Sales for FY 09

3.9 Based on the actual sales made till December 2008 and the estimates for Jan 09-Mar 09 period the revised total sales for FY 09 and its comparison with total energy sales earlier approved by the Commission for FY 09 is presented in the Table below:

Table 4 Total Consumption in FY 09 (Million Units)

Category	RERC Order	Revised FY 09 Sales	% Deviation
Domestic	1910	2292	20%
Non-Domestic	843	878	4%
Public Street Light	66	72	9%
Agriculture Metered	1380	1850	34%
Agriculture Flat	830	1129	36%
Industry Small	252	240	-5%
Industry Medium	524	516	-2%
Industry Large	2837	2729	-4%
Public Water Works(Small)	222	195	-12%
Public Water Works(Medium)	30	29	-3%
Public Water Works(Large)	98	98	0%
Bulk Supply to Mixed Load	248	254	2%
Electric Traction	331	276	-17%
Total	9571	10558	10%

3.10 The computation for the sales projection for FY 09 has been detailed in been detailed in Annexure for the kind reference of the Commission.

Energy Sales Projections for FY 10 till FY 14

3.11 The energy sales for FY 10 to FY 14 are projected on the basis of revised energy sales for FY 09 as computed above. For all consumer categories except the Domestic and Agriculture categories, past trends have been used while estimating sales. The assumptions and methodology adopted in estimating the sales under different has been detailed in the following paragraphs and the same have been attached in the Annexure II.

Domestic & Non Domestic

3.12 The last six years have show an increasing trend in the energy sales and increase in last three years has been far higher when compared to last six years. It is assumed that the growth in these consumer categories in past three years is expected to continue and even increase in the forthcoming years. The increase in Domestic consumers would largely come from increase in consumers in rural areas consequent to intensification efforts under RGGY scheme and increase in specific consumption of the existing consumers due to increase in living standards. The urbanisation and increase in commercial activities have resulted in energy sales to commercial consumers in recent past. The licensee expects the same growth to continue in future.

3.13 The estimated sales for Domestic category have been assumed to grow at 5 year CAGR for FY 10 and 12% per annum from FY 11-14. The estimated sales for Non-Domestic category have been assumed to grow at 5 year CAGR for FY 10-14. The table below shows the sales projection figure from FY 09 till FY 14 for domestic and non-domestic category.

Table 5 : Estimated Energy Sales in Domestic & Non Domestic Category during FY 09, FY 10 till FY 14 (MUs)

Category	5 Yr CAGR (From FY 03 to FY 08)	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	5 Yr CAGR (From FY 09 to FY 14)
Domestic	9%	2292	2487	2785	3119	3493	3913	11%
Non-Domestic	12%	878	980	1093	1219	1360	1518	12%

Public Street Lighting

3.14 Assuming energy sales for FY 09 as the base, the Licensee has applied the 5 Year CAGR to arrive at the estimated sales for FY 10 to FY 14 and the same is summarised below in Table 6.

Table 6: Energy Sales in Public Street Lighting Category during FY 09, FY 10 till FY 14 (MUs)

Category	5 Yr CAGR (From FY 03 to FY 08)	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	5 Yr CAGR (From FY 09 to FY 14)
Public Street Light	9%	72	78	85	92	100	109	9%

Agriculture Metered

3.15 The energy sales for agriculture consumers have been estimated based on the specific consumption (kWh/kW/year) for different consumers under this category as detailed below :

- (a) Existing Consumers at the start of the Financial Year
- (b) New Consumers added during the Financial Year
- (c) Consumers converted from 'Agriculture Flat' to 'Agriculture Metered' category

3.16 The Licensee has plans to continue the Feeder Renovation Programme in the coming years and also as a policy decision, Discom has decided to increase the supply hours to 8 hours for all agriculture consumers from current 6-7 hours. Considering average 300 days in the year, the specific consumption is expected to increase approximately to 2400 kWh/kW/year.

3.17 The following addition of consumers and specific consumption have been considered for the energy sales projections

Table 7: Addition of consumers & specific consumption during FY 09, FY 10 till FY 14 (MUs)

Financial Year	New consumers	Specific Consumption
FY 10	22,000	1,700 units/kW/year
FY 11	20,000	1,700 units/kW/year
FY 12	5,000	1,700 units/kW/year
FY 13	3,000	1,700 units/kW/year
FY 14	3,000	1,700 units/kW/year

3.18 The licensee would like to hereby submit before the Commission that metering all the existing un-metered consumers is a key focus area for the licensee. It would be apt to mention herein that despite the strong opposition faced from the consumers, during FY 08 the licensee has been successful in converting 13,800 consumers from the 'Agriculture Flat' category to the 'Agriculture Metered' category. The licensee propose to convert the remaining agriculture flat consumers to agriculture metered category consumers and the same has been shown below in the table

Table 8: Flat to metered category conversion trajectory

Financial year	No. of consumers to be converted from agriculture flat to agriculture metered category
FY 09	4,365
FY 10	14,519
FY 11	14,519
FY 12	14,519
FY 13	14,519
FY 14	14,519
Total	76,961

3.19 The energy sales to the new consumers and converted consumers have only been considered for only 6 months of the year. The energy sales under 'Agriculture Metered' category for FY 10 to FY 14 as computed above is summarised below in tables.

Table 9 : Basis for Agriculture Metered Consumption – Projection FY 10

Description	No of consumers	Connected Load/Conn. (Kw)	Connected Load for FY 10 (kW)	Specific consumption (hrs/kW/year)	Consumption (MU)
New Connections in FY 10	22000	5.45	119,821	1,700	102
Existing Consumers	212943	5.45	1,159,781	1,700	1,972
Converted consumers from Flat	14519	6.31	91,651	1,700	78
Total	249463		1371253		2,151

Table 10: Basis for Agriculture Metered Consumption – Projection FY 11

Description	No of consumers	Connected Load/Conn. (kW)	Connected Load for FY 11 (kW)	Specific consumption (hrs/kW/year)	Consumption (MU)
New Connections in FY 11	20000	5.50	109,937	1,700	93
Existing Consumers	249463	5.50	1371253	1,700	2,331
Converted consumers from Flat	14519	6.31	91,651	1,700	78
Total	283982		1572840		2,502

Table 11: Basis for Agriculture Metered Consumption – Projection FY 12

Description	No of consumers	Connected Load/Conn. (kW)	Connected Load for FY 12 (kW)	Specific consumption (hrs/kW/year)	Consumption (MU)
New Connections in FY 12	5000	5.54	27693	1,700	24
Existing Consumers	283982	5.54	1572840	1,700	2,674
Converted consumers from Flat	14519	6.31	91,651	1,700	78
Total	303501		1692183		2,775

Table 12: Basis for Agriculture Metered Consumption – Projection FY 13

Description	No of consumers	Connected Load/Conn. (kW)	Connected Load for FY 13 (kW)	Specific consumption (hrs/kW/year)	Consumption (MU)
New Connections in FY 13	3000	5.58	16,727	1,700	14
Existing Consumers	303501	5.58	1692183	1,700	2,877
Converted consumers from Flat	14519	6.31	91,651	1,700	78
Total	321020		1800560		2,969

Table 13: Basis for Agriculture Metered Consumption – Projection FY 14

Description	No of consumers	Connected Load/Conn. (kW)	Connected Load for FY 14 (kW)	Specific consumption (hrs/kW/year)	Consumption (MU)
New Connections in FY 14	3000	5.61	16,827	1,700	14.30
Existing Consumers	321020	5.61	1800561	1,700	3,061
Converted consumers from Flat	14519	6.31	91,651	1,700	78
Total	338539		1909038		3,153

Agricultural Flat

3.20 The energy sales for the category has been estimated on the basis of consumption norms for different consumers under this category is detailed below :

- (a) Existing Consumers at the start of the Financial Year
- (b) Consumers converted to Metered Category

3.21 As indicated earlier, the Discom has decided to increase the supply hours to 8 hours to for all the agriculture consumers. Keeping this in mind, the Discom requests the Commission to increase the current consumption norm for Agriculture (Flat) consumers from current, 1,945 units/kW/year to 2,400 kWh/kW/year. The analysis

and justification for increasing the norm shall be submitted separately to the Commission.

- 3.22 For projecting the sales, the conversion of the flat consumers as indicated in the Table 8 has been considered. The energy sales under 'Agriculture Flat' category from FY 10 till FY 14 is summarised below in tables.

Table 14: Basis for Agriculture Flat Consumption – Projection FY 10

Description	No of consumers	Average Connected Load/Conn. (kW)	Connected Load for FY 10 (kW)	Specific consumption (kWh/year)	Consumption (MU)
Consumers converted to Metered	14519	6.31	91,651	2400	110
Existing Consumers	72596	6.31	458,253	2400	1,100
Total	58077		366,602		990

Table 15: Basis for Agriculture Flat Consumption – Projection FY 11

Description	No of consumers	Average Connected Load/Conn. (kW)	Connected Load for FY 11 (kW)	Specific consumption (kWh/year)	Consumption (MU)
Consumers converted to Metered	14519	6.31	91,651	2400	110
Existing Consumers	58077	6.31	366,602	2400	880
Total	43558		274,952		770

Table 16: Basis for Agriculture Flat Consumption – Projection FY 12

Description	No of consumers	Average Connected Load/Conn. (kW)	Connected Load for FY 12 (kW)	Specific consumption (kWh/year)	Consumption (MU)
Consumers converted to Metered	14519	6.31	91,651	2400	110
Existing Consumers	43558	6.31	274,952	2400	660
Total	29038		183,301		550

Table 17: Basis for Agriculture Flat Consumption – Projection FY 13

Description	No of consumers	Average Connected Load/Conn. (kW)	Connected Load for FY 13 (kW)	Specific consumption (kWh/year)	Consumption (MU)
Consumers converted to Metered	14519	6.31	91,651	2400	110
Existing Consumers	29038	6.31	183,301	2400	440
Total	14519		91,651		330

Table 18: Basis for Agriculture Flat Consumption – Projection FY 14

Description	No of consumers	Average Connected Load/Conn. (kW)	Connected Load for FY 14 (kW)	Specific consumption (kWh/year)	Consumption (MU)
Consumers converted to Metered	14519	6.31	91,651	2400	110
Existing Consumers	14519	6.31	91,651	2400	220
Total	0		-		110

Small Industry, Medium Industry & Large Industry

3.23 The growth seen in energy sales to consumers under these categories in the past is summarised in the table below

Table 19: Growth seen in the past in the Industry Categories

Category	8 Year CAGR	5 Year CAGR	3 Year CAGR
Small Industry	2.4%	4.75%	5.44%
Medium Industry	9.5%	10.76%	10.76%
Large Industry	10.1%	15.77%	15.78%

3.24 As evident from the above table, there has been a robust growth in sales in all three categories in past. The licensee foresees lower growth in the next financial year (FY 10) considering the immediate impact of the economic slowdown. Hence, lower long-term growth has been assumed for FY 10. However the licensee have assumed moderate growth beyond FY 10 and used past 5-year and 3-year CAGR to project the sales for the period FY 11 to FY 14 for all the industrial categories.

3.25 In case of small industry, eight year CAGR has been applied to the revised energy sales figures of FY 09 to arrive at the sales figures for FY 10 and five year CAGR has been applied to the energy sales figures of FY 10 to arrive at the sales figures from FY 11 till FY 14.

3.26 In case of medium industry a growth factor of five percent has been applied to the revised energy sales figures of FY 09 to arrive at the sales figures for FY 10 and five year CAGR has been applied to the energy sales figures of FY 10 to arrive at the sales figures from FY 11 till FY 14.

3.27 In case of large industry a growth factor of eight percent has been applied to the revised energy sales figures of FY 09 to arrive at the sales figures for FY 10 and eight year CAGR has been applied to the energy sales figures of FY 10 to arrive at the sales figures from FY 11 till FY 14. The energy sales figures for the industrial categories from FY 10 till FY 14 is summarised in the table below

Table 20: Energy Sales for Industry Categories for FY 09, FY 10 till FY 14 (MUs)

Category	8 Yr CAGR (From FY 00 to FY 08)	5 Yr CAGR (From FY 03 to FY 08)	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	5 Yr CAGR (From FY 09 to FY 14)
Industry Small	2%	5%	240	246	257	269	282	296	4%
Industry Medium	10%	11%	516	544	603	667	739	819	10%
Industry Large	10%	16%	2729	2944	3242	3570	3932	4330	10%

PWW (Small) , PWW (Medium), PWW (Large) , Mixed Load and Electric Traction

3.28 The growth seen in energy sales to consumers under these categories has been summarised in the table below:

Table 21: Growth seen in the past in PWW (Small) , PWW (Medium) , PWW (Large) , Mixed Load and Electric Traction

Category	8 Year CAGR	5 Year CAGR	3 Year CAGR
Public Water Works (S)	10.8%	9.75%	8.74%
Public Water Works (M)	4.3%	4.14%	5.04%
Public Water Works (L)	4.1%	4.74%	5.09%
Mixed Load	7.0%	15.81%	21.85%
Electric Traction	3.8%	3.27%	7.94%

3.29 The energy sales figures for the PWW categories, mixed load and electric traction from FY 10 till FY 14 is summarised in the table below

Table 22 : Energy Sales to PWW (Small) , PWW (Medium) , PWW (Large) , Mixed Load and Electric traction during FY 09, FY 10 till FY 14 (MUs)

Category	8 Yr CAGR (From FY 00 to FY 08)	5 Yr CAGR (From FY 03 to FY 08)	3 Yr CAGR (From FY 05 to FY 08)	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	5 Yr CAGR (From FY 09 to FY 14)
Public Water Works(Small)	11%	10%	9%	195	205	223	242	263	286	8%
Public Water Works(Medium)	4%	4%	5%	29	31	32	34	35	37	5%
Public Water	4%	5%	5%	98	102	107	112	117	122	5%

Works(Large)										
Bulk Supply to Mixed Load	7.0%	15.81%	22%	254	272	314	364	422	488	14%
Electric Traction	4%	3%	8%	276	285	294	304	314	324	3%

3.30 The energy sales for FY 09 to FY 14 for various consumer categories is summarised in the table below

Table 23 : Energy Sales for FY 09, FY 10 till FY 14 (MUs)

Category	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	5 Yr CAGR (From FY 09 to FY 14)
Domestic	2292	2487	2785	3119	3493	3913	11.29%
Non-Domestic	878	980	1093	1219	1360	1518	11.56%
Public Street Light	72	78	85	92	100	109	8.64%
Agriculture Metered	1850	2151	2502	2775	2969	3153	11.25%
Agriculture Flat	1129	990	770	550	330	110	-37.23%
Industry Small	240	246	257	269	282	296	4.28%
Industry Medium	516	544	603	667	739	819	9.66%
Industry Large	2729	2944	3242	3570	3932	4330	9.67%
Public Water Works(Small)	195	205	223	242	263	286	7.96%
Public Water Works(Medium)	29	31	32	34	35	37	4.86%
Public Water Works(Large)	98	102	107	112	117	122	4.61%
Bulk Supply to Mixed Load	254	272	314	364	422	488	14.00%
Electric Traction	276	285	294	304	314	324	3.27%
Total	10,558	11,313	12,307	13,319	14,358	15,506	8%

Distribution Loss

3.31 The Commission in its MYT Order for FY 2009 dated 11th September, 2008 has prescribed the target distribution losses for FY 08 and FY 09 as 26.56% and 23.90% respectively. To achieve this distribution loss trajectory as prescribed by the Commission; the distribution losses were required to reduce by approximately 3% over the two years.

3.32 The licensee has undertaken the comprehensive Feeder Renovation Program for meeting the loss reduction trajectory prescribed by the Commission. Some of the main objective of program has been to:

- Reduce distribution losses on 11 KV feeders to a level below 15%.
- Reduce burning rate of distribution transformers.

- (c) Improve quality of power supply and make it interruption free and increase consumer satisfaction levels
- (d) Consequent to loss reduction, providing 24 hours supply to rural domestic & non domestic consumers and thus eliminating urban-rural supply disparity
- (e) To make investment supported technical interventions for prevention of theft
- 3.33 The feeder renovation program has helped the licensee in reducing the losses by approximately 4% from the beginning of the FY 08. Despite all the effort, the licensee has been able to reduce the losses as shown in the table below but 26.48% may be accepted as the starting loss level for the next control period.

Table 24 : Distribution Losses estimated by the licensee vis a vis targets set by the Commission

Year	Targets set by the Commission	Targets achieved by the Licensee
FY 2007-08	26.56%	30.16%
FY 2008-09	23.90%	*26.48%

* Likely to achieve by the year end

- 3.34 The licensee proposes to reduce the losses from current 26.48% to 15% by FY 14. The steps being taken to reduce the losses is covered in subsequent sections. The licensee has estimated the energy requirement at RVPN interface for FY 09 to FY 14 on the basis of energy sales for FY 09 (Revised Estimates), and FY 10 till FY 14 (Projected) basis and taking into account the estimated distribution losses for these years.

Table 25: Distribution Losses and Energy Requirement at RVPN interface

Description	FY 09 (RE)	FY 10	FY 11	FY 12	FY 13	FY 14
Total Energy Sales to Consumers (MU)	10,558	11,313	12,307	13,319	14,358	15,506
Distribution Loss %	26.48%	21.46%	18.00%	16.00%	15.00%	15.00%
Total Energy Input to Discom (MU) at RVPN Interface points	14360	14404	15009	15856	16891	18242

A4: Power purchase Cost**Power Purchase Cost FY 08 (Actual)**

4.1 The licensee had purchased the power from various sources i.e CGS, RVUN, NES Projects, Partnership projects, Private projects, Trading, for meeting the demand in its jurisdiction in FY 08. The energy and the total cost of the power purchase from different sources in FY 08 have been shown in the table below.

Table 26: Power purchase cost in FY 08 (In Crores)

Source of Power Purchase	Energy (MU)	Amount (Cr.)	Rate (Rs/unit)
RVUN	6766	1,553	2.30
NPC	329	88	2.67
NTPC	2726	520	1.91
NHPC	494	100	2.02
Others	489	142	2.91
Partnership Projects	1266	19	0.15
IPP/Within State Non-conventional	274	101	3.69
Bilateral/Traders	1207	804	6.66
Inter discom trading	292	67	2.28
Gross total	13843	3,393	2.45

4.2 The actual energy availability and energy requirement for FY 08 has been shown in the table below

Table 27: JVVNL energy requirement and energy availability for FY 08 (MUs)

Description	FY 08 (Actual)
Energy Sales to Consumers	9,126
Distribution Loss%	30.16%
Distribution Loss (MUs)	3,941
Energy Availability at RVPN GSS	13067
Transmission Loss within State%	4.40%
Transmission Loss within state (MU)	552
Transmission Loss outside state %	4.25%
Transmission Loss outside state (MU)	223
Gross Energy Requirement (MU)	13,842
Source-wise Energy	
RVUN	6766
NPC	329

Description	FY 08 (Actual)
NTPC	2726
NHPC	494
Others	489
Partnership Projects	1266
IPP/Within State Non-conventional	274
Bilateral/Traders	1207
Purchase from other Discoms	292
Gross total	13,842

Power Purchase Cost (FY 09-14)

Energy availability & energy requirement (FY 09-14)

- 4.3 The licensee has considered the transmission losses as 4.4 % within state and 4.25% outside state for the computation of gross energy requirement. The within state losses may be suitably adjusted as per the losses approved for RVPN by the Commission. The licensee has calculated the energy availability from each of the station based on the revised tariff regulation issued by the CERC and RERC, MYT petition filed by RVUN in regard to select stations and latest available information on entitlement from new generation projects from state, central and private sector.
- 4.4 The total energy required by the licensee has been estimated for the control period and the computation for arriving at the energy requirements figure is shown in the table below

Table 28: JVVNL's energy requirement for FY 09, FY 10 till FY 14

Description	FY 09 (RE)	Projected				
		FY 10	FY 11	FY 12	FY 13	FY 14
Energy Sales to Consumers	10558	11313	12307	13319	14358	15506
Distribution Loss%	26.48%	21.46%	18.00%	16.00%	15.00%	15.00%
Distribution Loss (MUs)	3802	3091	2702	2537	2534	2736
Energy Availability at RVPN GSS	14360	14404	15009	15856	16891	18242
Transmission Loss within State%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%
Transmission Loss within state (MU)	611	661	792	841	1012	1091
Transmission Loss outside state %	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%
Transmission Loss outside state (MU)	248	254	334	351	408	435
Gross Energy Requirement (MU)	15220	15318	16134	17048	18312	19768
Source-wise Energy						
RVUN	7345	8181	8835	9477	12180	13400

Description	FY 09 (RE)	Projected				
		FY 10	FY 11	FY 12	FY 13	FY 14
NPC	272	337	374	374	374	374
NTPC	2818	3162	3779	3897	3956	4350
NHPC	496	513	743	1031	1573	1573
Others	547	1090	2727	2727	3477	3708
Partnership Projects	1357	1372	1372	1372	1372	1372
IPP/Within State Non-conventional	310	491	693	895	964	1098
Bilateral/Traders	1522	172	0	0	0	0
Purchase from other Discoms	552					
Gross total	15220	15318	18522	19773	23898	25875
Less Export sale of electricity		-	2,388	2,724	5,586	6,107
Net availability	15220	15318	16134	17048	18312	19768

Power purchase cost (FY 09-14)

- 4.5 The licensee has projected the power purchase cost for FY 09 till FY 14 from the various sources based on the
- Revised regulation'2009 issued by the CERC and RERC respectively
 - Tariff order issued by CERC & CERC for the respective station
 - Tariff order issued for wind & biomass by the RERC
 - Petitions filed by RVUN of the select stations.
- 4.6 In cases where the tariff orders are not issued or yet to be issued, assumption has been made for fixed charges and the variable charges. The fixed charges and variable charges for the plant which are going to come in the 11th plan have been assumed on the basis of similar types of plant. The impact of the revised regulation like return on equity, station heat rate, calorific value etc. has been considered while projecting the fixed and variable charges for the existing station and the new station which are going to come in the 11th plan.
- 4.7 The allocation for the power purchase from outside state stations from FY 10 onward are 36%, 36%, 28% for Jaipur, Ajmer and Jodhpur respectively. While the allocation for RVUN stations from FY 10 onward are 38%, 32%, 30% for Jaipur, Ajmer and Jodhpur respectively. The allocations have been considered same for all the years, but it might change in the coming years due to any change in directive by the Government of Rajasthan.

Transmission Charges

- 4.8 The transmission charges of PGCIL and RVPN for FY 08 has been taken as per the tariff order issued by the Commission. As the transmission charges for the second control period has not yet been finalised by the respective Commissions, the licensee has considered tariff as computed by RVPN in its MYT petition for the control period FY 10-14. For PGCIL charges the licensee has used an escalation factor of 4% for the period from FY 10-FY 14.
- 4.9 Transmission and SLDC charges considered by the licensee from FY 09 till FY 14 is provided in the table below:

Table 29 : Transmission & SLDC Charges

Transmission Charges	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
CTU	62	63	65	69	79	161
RVPN	276	489	620	827	1,071	1,253
SLDC	8	11	13	15	16	18
Total Transmission & SLDC	346	563	698	911	1,167	1,432

Overall Power Purchase Cost

- 4.10 The projected power purchase cost for Jaipur Vidyut Vitran Nigam Limited for control period FY 09 till FY 14 from various sources has been summarised in Table 30 below:

Table 30 : Power Purchase Cost from FY 09, FY 10 till FY 14 (In Crores)

Station	FY 09 (RE)	Projected				
		FY 10	FY 11	FY 12	FY 13	FY 14
RVUN	1,791	2,200	2,447	2,703	3,700	4,217
NPC	70	86	95	94	93	92
NTPC	567	699	894	958	1,013	1,142
NHPC	103	112	182	271	445	461
Others*	139	350	678	698	891	970
Partnership Projects	33	34	36	37	39	40
IPP/Within State Non-conventional	115	181	256	332	361	413
Bilateral/Traders	796	254	-	-	-	-
Inter discom trading	135	-	-	-	-	-
Gross total	3,750.15	3,917.01	4,588.32	5,094.13	6,541.63	7,334.99

* RFF has been included

Operation and Maintenance Expenses

4.11 The Regulations have specified a gross normative O&M expenses for the distribution business on the basis of the total energy sales to customers. The gross normative O&M expense projected for the second control period as per the provisions of the Regulations is summarised below.

Table 31: Operation and Maintenance Expenses

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Employee Costs	323	294	311	329	348	367
Repairs & Maintenance Costs	25	68	72	76	80	85
Administrative & General Costs	38	34	36	38	40	42
Total O&M Costs	386	396	419	443	468	495
Expenses to be Capitalized	83	75	80	84	89	94
Net O&M Costs charged to revenue	303	321	339	358	379	401

4.12 It is important to be stated here that the commission regulations on the gross normative O&M expenses are taken only for the control period FY 10-14. For FY 09 the gross O&M expenses have been projected based on actual costs incurred till September 08.

Interest on long term loans, Lease Rentals and Finance charges

4.13 The estimated Interest Charges , Lease Rentals and Finance Charges for FY 09 to FY 14 is summarised in the table below

Table 32: Interest and Financing charges

Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Interest Charges	567	769	871	994	1085	1169
Finance Charges	4	5	5	6	6	7
Interest Expenses Capitalized	29	20	27	31	35	37
Total Interest & Financing Charges	542	754	849	968	1057	1139

4.14 Clause 22 of the Regulations requires the capping of loan repayments to the depreciation charged for the year. Though, the repayments have not been considered as part of expenditure in this petition, the licensee would like to submit that the borrowings for funding the capital investments in past have not followed the above concept. Therefore, the annual repayments would be more than the depreciation allowed annually.

Working Capital Calculations as per Norms

4.15 The total working capital requirement for the licensee can be broadly categorised under following two sub-heads:

- (i) Working Capital required for meeting operational requirements
- (ii) Working Capital required to fund the revenue deficit

Working Capital for Operations

4.16 The licensee has estimated its working capital requirement for FY 09 to FY 14 as per the Revised regulation issued by the Commission

Table 33: Interest on Working Capital for FY 09, FY 10 till FY 14

Description	FY 10	FY 11	FY 12	FY 13	FY 14
O&M expenses (as per norms)	33	35	37	39	41
Maintenance Spare (as per norms)	59	63	66	70	74
Receivables (as per norms)	551	603	658	716	780
Less:					
Security deposit of Consumers	43	47	52	57	63
Total Working Capital	600	653	709	768	833
Interest Rate (%)	12.50%	12.50%	12.50%	12.50%	12.50%
Interest on Working Capital	75	82	89	96	104

Short-term borrowings to meet Revenue Deficit

4.17 Apart from the working capital borrowings for normal operations, the licensee has to borrow short term loans to meet the revenue deficit. As per the approved FRP, GoR has also committed in the revised FRP to provide the entire revenue deficit as revenue subsidy during the transition period till the utilities turnaround. However, GoR is not in a position to meet the entire subsidy burden every year and has committed to provide the subsidy beyond the transition period to wipe out the short term borrowings taken by the utilities during the transition period along with interest on such borrowings. The interest component of the short term borrowings is included in the Form 3.6 for the respective years.

Depreciation

4.18 The depreciation for FY 09 to FY 14 has been estimated by applying applicable depreciation rates on the opening Gross Fixed Assets in Form 3.5.

- 4.19 The depreciation has been adjusted as per the commission order dated 11.09.08, in which the depreciation of fixed assets has been charged excluding the consumer contribution and capital grants from the total gross fixed assets.

Table 34: Depreciation for FY 09, FY 10 till FY 14

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Depreciation	215	257	290	314	328	333

Return on Equity

- 4.20 The Financial MYT regulation for the second control period allows for a rate of return of 16% on the equity from FY 10. However, since the Discom is not recovering full cost from the tariff, as explained earlier, it has to depend on the GoR subsidy to meet the revenue gap. Therefore, the Discom is not proposing any return on equity for FY 09 till FY 14.

Aggregate Revenue Requirement for FY 09, FY 10 till FY 14

4.21 The revised ARR for FY 09 and the estimated ARR for FY 10 to FY 14 is based on the expense elements considered in the preceding section is summarised in the following table.

Table 35: ARR for FY 09, FY 10 till FY 14

Sl. No.	Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
1	Power Purchase Expenses	3,750	3,917	4,588	5,094	6,542	7,335
2	Operation & Maintenance Expenses	-	-	-	-	-	-
2.1	Employee Expenses	323	294	311	329	348	367
2.2	Administration & General Expenses	38	34	36	38	40	42
2.3	Repair & Maintenance Expenses	25	68	72	76	80	85
3	Depreciation, including advance against depreciation	215	257	290	314	328	333
4	Interest on Long-term Loan Capital (includes interest capitalizd)	288	441	484	572	629	664
5	Interest on Working Capital and on consumer security deposits	269	330	384	417	450	498
6	Other Expenses (Finance Charges and other General expenses)	(59)	(43)	(45)	(46)	(48)	(50)
7	Income Tax	-	-	-	-	-	-
8	Transmission Charges paid to Transmission Licensee	338	552	685	896	1,150	1,414
9	NLDC/RLDC Fee/SLDC Fee	8	11	13	15	16	18
10	Contribution to contingency reserves	-	-	-	-	-	-
11	Adjustment for profit/loss on account controllable/uncontrollable factors	-	-	-	-	-	-
12	Total Revenue Expenditure	5,196	5,861	6,818	7,703	9,534	10,707
13	Return on Equity Capital	-	-	-	-	-	-
14	Aggregate Revenue Requirement	5,196	5,861	6,818	7,703	9,534	10,707
15	Less: Non Tariff Income	113	119	124	129	135	141
16	Less: Income from wheeling charges	-	-	-	-	-	-
17	Less: Income from Trading of Electricity	-	-	1,194	1,362	2,793	3,053
18	Aggregate Revenue Requirement from Retail Tariff	5,083	5,742	5,500	6,212	6,607	7,513

A5: Revenue from existing tariff

5.1 The Actual Revenue for FY 08 and the revised estimated revenue for FY 09 and projections for FY 10-FY 14 from the forecasted energy sales for different consumer categories have been summarised in the table below. The revenue for each category has been calculated on the basis of retail tariff approved by the Commission on December 17, 2004. The charges mentioned category-wise from FY 09-FY 14 are inclusive of only fixed and energy charges. All the rest charges are added in the other charges component.

Table 36 : Revenue from existing Tariff

Consumer Categories	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Domestic	-	853	923	1027	1143	1272	1416
Commercial	-	491	544	604	669	742	823
Public Street Lighting	-	28	30	32	35	38	41
Agriculture Metered	-	232	270	313	347	371	394
Agriculture Flat	-	106	85	64	42	21	0
Small Industry	-	99	103	108	113	118	124
Medium Industry	-	226	246	273	301	333	367
Large Industry	-	1177	1273	1403	1544	1699	1869
Public Waterworks (S)	-	72	75	82	89	96	105
Public Waterworks (M)	-	12	12	13	14	14	15
Public Waterworks (L)	-	42	44	46	48	51	53
Bulk Supply to Mixed	-	107	115	132	152	175	201
Railway Traction		116	119	123	127	131	135
Total*	3,211*	3561	3841	4219	4625	5062	5544
Other Charges	(36)	495	533	570	604	633	662
Revenue from theft and Malpractice	25	15	16	16	16	16	16
Other Non-tariff Income	93	113	119	124	129	135	141
Income from trading	0	0	0	1194	1362	2793	3053
Total	3294	4183	4509	6124	6736	8639	9416

* FY 08 category wise break-up is not available

Revenue Deficit

5.2 The actual revenue deficit for FY 08, revised estimated for FY 09 and projections for control period FY 10-FY 14 at the existing tariff is summarised in the table below:

Table 37 : Revenue deficit/Surplus at existing tariff

Description	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Annual Revenue Requirement (Total Costs) [A]	4,440	5,196	5,861	6,818	7,703	9,534	10,707
Revenue Generation at existing tariff [B]	3,294	4,183	4,509	6,124	6,736	8,639	9,416
Revenue (Deficit)/Surplus [B]- [A]	(1,146)	(1,012)	(1,352)	(694)	(967)	(896)	(1,292)

5.3 The revenue deficit has shown an increasing trend from FY 10 to FY 14, this is primarily due to:

- (a) Increase in the Power Procurement Cost and Transmission Cost
- (b) Increase in the interest on increasing short term loans.
- (c) revised norm for depreciation for the second control period

5.4 The Government of Rajasthan, Finance Department (Ways and Means Division) has conveyed by means of letter no. F.5(7)FWM/2001 dated March 2009 addressed to The Accountant General (C&RA), Rajasthan has confirmed that it would provide cash support of Rs. 400 crore and also allow electricity duty retention till financial year FY 14 to meet unfunded revenue gap, extinguish short-term borrowings and to meet contingencies during the transition period.

5.5 Further, the Government has also conveyed in this letter that unfunded revenue gap would be treated as deferred revenue subsidy payable by GoR and the electricity companies can show the same as receivable from Government of Rajasthan.

5.6 The Licensee has already initiated the process of revising financial projections for next 5 years and look at options available to reduce the deficit and achieve financial turnaround.

A6: Distribution loss reduction plan

6.1 The licensee is making all the effort for reducing the losses and proposed to achieve the distribution loss trajectory which has been shown in the table below:

Table 38: Distribution loss trajectory

Financial Year	Distribution loss (%)	Reduction in Distribution loss over previous years (%)
FY 09	26.48%	3.68%
FY 10	21.46%	5.02%
FY 11	18.00%	3.46%
FY 12	16.00%	2.00%
FY 13	15.00%	1.00%
FY 14	15.00%	0.00%

6.2 The above table interprets that by the end of financial year (FY 13), the licensee would be able to achieve the distribution loss level target of 15% and thereafter would maintain the same distribution loss level. In order to achieve the above target, the licensee proposes to conduct the following activities:

- (a) *Intensive vigilance checking* – Checking squads have been constituted for launching a special drive for vigilance checking to curb the practice of theft.
- (b) *Replacement of stopped/defective meters*- During the year 2007-08 the licensee has replaced 306156 defective meters. The circle wise details of the remaining defective meters has been attached in Annexure-III
- (c) *Conversions of flat rate connections* – Despite strong public resistance, the licensee is continuing the conversion of Flat consumers to metered category. The licensee plans to propose to the following conversion from agriculture flat category to agriculture metered category.

Table 39: No of flat consumers to be converted in FY 09, FY 10 till FY 14

Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Conversion from flat to metered category	4365	14519	14519	14519	14519	14519

- (d) *LT less system* – All new agriculture connections are being released under LT less system as well as LT lines are also being converted to 11 kV lines.

- (e) *Intensive electrification under APDP* – Under this program maintenance of lines & transformers, installation of new distribution transformers and upgrading the capacity of distribution transformers etc. are being carried out in different circles of the area of the licensee
- (f) *Energy accounting & auditing* – Most of the 11kV feeders have been metered and the energy audit is being done constantly
- (g) *Providing of ABC conductors* – The licensee is in the process of laying Aerial Bunch Conductors (ABC) .
- (h) *Renovation of 11 kV feeders* – The licensee is currently in the fourth year of implementation of Feeder Renovation Programme (FRP). Some of the key objectives of the programme are as follows :
 - (i) Reduce distribution losses on 11 KV feeders to a level below 15%.
 - (ii) Reduce burning rate of distribution transformers.
 - (iii) Improve quality of power supply and make it interruption free and increase consumer satisfaction levels
 - (iv) Consequent to loss reduction, providing 24 hours supply to rural domestic & non domestic consumers and thus eliminating urban-rural supply disparity
 - (v) To make investment supported technical interventions for prevention of theft

A7: Capital investments

7.1 The licensee proposes capital investments for FY 09 to FY 14 as shown in the table below

Table 40: Capital Investments for FY 09 to FY 14

Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Investment in Distribution Project	2009.99	1434.79	1186.42	968.77	761.12	553.46

A8: Prayer

8.1 Jaipur Vidyut Vitran Nigam Limited requests the Commission to:

- Approve revenue requirements calculations for the control period from FY 10-FY 14 given in the detailed formats along with this application;
- Approve the true-up of ARR for FY 08 based on the information furnished in the prescribed format
- And pass such other and further orders as are deemed fit and proper in the facts and circumstances of the case.

Annexure I: Estimation of Revised Energy Sales for FY 09

ENERGY SOLD (MU)	Apr-Dec FY 07	Apr-Dec FY 08	Jan-Mar07	Jan-Mar08	Pro-rata increase	Increase for last 3 months based on actuals	Based on last year growth	MYT Order 09	FY 09 FINAL	FY 09 Final
Domestic	970	1719	303	403	2292	2254	2122	1835	2292	2292
Non-Domestic	402	659	132	165	878	866	824	776	866	878
Public Street Light	28	54	16	18	72	74	72	66	74	72
Agriculture Metered	475	1232	338	559	1642	2154	1790	1462	1524	1850
Agriculture Flat	511	825	265	284	1100	1129	1109	830	892	1129
Industry Small	120	180	52	57	240	242	237	254	242	240
Industry Medium	241	387	107	126	516	536	514	528	536	516
Industry Large	1226	2047	533	617	2729	2762	2664	2758	2762	2729
Public Water Works(Small)	90	146	40	47	195	201	193	222	201	195
Public Water Works(Medium)	15	22	7	7	29	30	29	30	30	29
Public Water Works(Large)	48	73	22	24	98	100	97	98	100	98
Bulk Supply to Mixed Load	99	190	35	42	254	240	232	239	240	254
Electric Traction	145	207	67	75	276	292	282	331	292	276
TOTAL ENERGY SOLD (MU)	4372	7741	1916	2424	10321	10879	10164	9429	10049	10558

Annexure II : Projection of Energy Sales for FY 09 and FY 10 till FY 14

Category	FY 09	8 year CAGR	5 year CAGR	3 year CAGR	FY 10	FY 11	FY 12	FY 13	FY 14	Rationale for estimations
Domestic	2292	6.97%	8.50%	10.45%	2487	2785	3119	3493	3913	Assumed 5 year CAGR for FY 10 and 12% growth per annum from FY 11 till FY 14
Non-Domestic	878	9.00%	11.56%	13.82%	980	1093	1219	1360	1518	5 year CAGR from FY 10 till FY 14
Public Street Light	72	8.96%	8.64%	10.50%	78	85	92	100	109	5 Year CAGR for FY 10 till FY 14
Agriculture (Metered)	1850	23.83%	30.03%	29.37%	2151	2502	2775	2969	3153	CAGR N.A
Agriculture (Flat)	1129	-5.77%	2.44%	2.74%	990	770	550	330	110	CAGR N.A
Small Industry	240	2.42%	4.75%	5.44%	246	257	269	282	296	8 Year CAGR for FY 10 and 5 year CAGR from FY 11 till FY 14
Medium Industry	516	9.47%	10.76%	10.76%	544	603	667	739	819	5% growth per annum for FY 10 and 5 year CAGR from FY 11 till FY 14
Large Industry	2729	10.13%	15.77%	15.78%	2944	3242	3570	3932	4330	8% growth for FY 10 and 8 year CAGR from FY 11 till FY 14
Public Water Works (S)	195	10.84%	9.75%	8.74%	205	223	242	263	286	5% growth per annum for FY 10 and 3 year CAGR from FY 11 till FY 14
Public Water Works (M)	29	4.33%	4.14%	5.04%	31	32	34	35	37	5 Year CAGR for FY 10 and 3 year CAGR from FY 11 till FY 14
Public Water Works (L)	98	4.09%	4.74%	5.09%	102	107	112	117	122	8 Year CAGR for FY 10 and 5 year CAGR from FY 11 till FY 14
Mixed Load	254	7.01%	15.81%	21.85%	272	314	364	422	488	8 Year CAGR for FY 10 and 5 year CAGR from FY 11 till FY 14
Electric Traction	276	3.76%	3.27%	7.94%	285	294	304	314	324	5 Year CAGR for FY 10 till FY 14

Annexure III: STATUS OF STOPPED AND DEFECTIVE METERS AS ON 31-3-08.

Sl No.	Circle	Stopped/ Defective Meters		
		1 phase	3 phase	Total
1	JCC	825	76	901
2	JPDC	32993	5585	38578
3	DAUSA	5950	4959	10909
4	ALWAR	27508	9956	37464
5	BHARATPUR	29099	2973	32072
6	SAWAIMADHOPUR	21917	3793	25710
7	KOTA	12454	3261	15715
8	JHALAWAR	22662	6151	28813
	JVVNL	153408	36754	190162