

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

ANNUAL REVENUE REQUIREMENT
FOR FY 2016-17 AND TRUE UP
FOR FY 2013-14



KANPUR ELECTRICTY SUPPLY COMPANY LIMITED

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अनिल कुमार कोहली
मुख्य अभियन्ता (स्तर-1)
के.स्को, कानपुर

FORM-1

(See Regulation 30)

BEFORE THE HON'BLE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION,
KISAN MANDI BHAWAN, GOMTINAGAR, LUCKNOW

Receipt Register No.: _____

Petition No.: _____

IN THE MATTER OF

DETERMINATION OF AGGREGATE REVENUE REQUIREMENT (ARR) AND TARIFF FOR THE FY 2016-17 AND TRUE UP OF ARR AND REVENUE FOR FY 2013-14

AND

IN THE MATTER OF

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED (KESCO),
KESA HOUSE, 14/71 CIVIL LINES, KANPUR.

APPLICANT

V/s

UTTAR PRADESH POWER CORPORATION LIMITED (UPPCL),
SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW.

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED
SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW.

DAKSHINACHAL VIDYUT VITRAN NIGAM LTD.
GALINA ROAD AGRA.

RESPONDENTS

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मुख्य अभियन्ता (स्तर-1)
कैस्को, कानपुर

भारतीय गैर न्यायिक

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उत्तर प्रदेश UTTAR PRADESH

FORM-2

(See Regulation 31)

86AC 421726

BEFORE THE HON'BLE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION, KISAN
MANDI BHAWAN, GOMTINAGAR, LUCKNOW

Receipt Register No.: _____

Petition No.: _____

IN THE MATTER OF

DETERMINATION OF AGGREGATE REVENUE REQUIREMENT (ARR) AND TARIFF FOR THE FY 2016-17
AND TRUE UP OF ARR AND REVENUE FOR FY 2013-14

AND

IN THE MATTER OF

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED (KESCO),
KESA HOUSE, 14/71 CIVIL LINES, KANPUR.

APPLICANT

V/s

UTTAR PRADESH POWER CORPORATION LIMITED (UPPCL),
SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW.

RESPONDENT

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED
(UPPTCL), SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW.

DAKSHINACHAL VIDYUT VITRAN NIGAM LTD.
GALLINA ROAD AGRA.

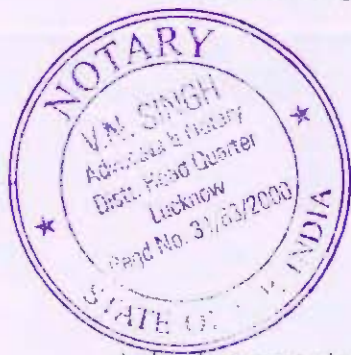
V. N. SINGH
Advocate & Notary
Lucknow U.P. India
Regd. No. 31/63/2000

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मुख्य अभियन्ता (स्टाफ-4)
के.सको, कानपुर

AFFIDAVIT

I, Anil Kumar Kohli, Son of Late Shri. R. K. Kohli, aged about 56 years, resident of H.No.8, KESCO COLONY, Kanpur do hereby solemnly affirm and state as under: VEESHU PURI

1. I say that I am the Chief Engineer, Kanpur Electricity Supply Company Limited, the Applicant in the above matter and am duly authorized by the said Applicant to swear the present affidavit.
2. I say that I have read the contents of the above Petition filed by the Petitioner (applicant) and I have understood the contents of the same.
3. That the contents of the Petition filed by the Applicant are based on the information available with the Applicant in the normal course of business and believed by me to be true.
4. I say that the Text, Appendixes and Annexure to the Petition are the true and correct copies of their original.



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मुख्य अभियन्ता (स्तर-1)
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VERIFICATION

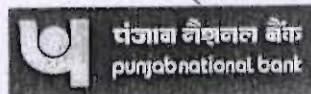
I, the deponent above named, do hereby verify the contents of the above affidavit to be true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified at Kanpur on the _____ Day of _____, Two Thousand and Fifteen.

Sworn & Verified
before me

23/05/15
V. N. SINGH
Advocate & Notary
Lucknow U.P. India
Regd No 31/63/2000

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1. BACKGROUND AND PROCEDURAL HISTORY

1.1 BACKGROUND

Kanpur Electricity Supply Company Ltd (KESCO), a company registered under the Companies Act, 1956 was incorporated through the Transfer Scheme dated 15th January, 2000; wherein the assets, liabilities and personnel of Kanpur Electricity Supply Authority (KESA) under erstwhile Uttar Pradesh State Electricity Board (UPSEB) were transferred to KESCO.

Subsequently the Hon'ble Commission, in exercise of the powers conferred on it under Section 15 of the Uttar Pradesh Electricity Reform Act, 1999 (Uttar Pradesh Act No.24 of 1999), granted KESCO on 4th October 2000 a distribution license for a period of 30 years for carrying out the business of Distribution and Retail Supply of electrical energy within its license area.

1.2 DISTRIBUTION TARIFF REGULATIONS

Thereafter, the Uttar Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Distribution Tariff) Regulations, 2006 (hereinafter referred to as the "Distribution Tariff Regulations") were notified by the Hon'ble Commission on 6th October, 2006.

These regulations are applicable for the purposes of Annual Revenue Requirement (ARR) filing and Tariff determination of all the distribution licensees' within the State of Uttar Pradesh.

1.3 ARR AND TARIFF ORDER FOR FY 2014-15 AND TRUE-UP ORDER FOR FY 2008-09 TO FY 2011-12

The ARR / Tariff Petition for FY 2014-15 and True up Petition for FY 2008-09 to FY 2011-12 was filed by KESCO under Sections 62 and 64 of the Electricity Act, 2003 on 29th November, 2013 and 14th May, 2013 respectively (Petition Nos. and 921 / 2013 and 889 / 2013).

KESCO submitted the audited accounts of FY 2008-09 to FY 2011-12 and provisional accounts for FY 2012-13 along with the calculations of revenue gap for FY 2014-15 and the projected revenue for FY 2014-15 based on current tariff in its ARR Petitions. Further, the Rate Schedule was submitted later on 18th December, 2013. Petitioner as per directive of the Commission's order published the salient feature of the above petition in various newspapers on 7th and 8th June, 2014 and also uploaded the same on the website of Licensee as well as UPPCL for public comments.

The Commission admitted the above petitions of the licensee its Admittance Order dated 3rd June, 2014, directing the Petitioner to publish, within 3 days from the date of issue of that order, the Public Notice detailing the salient information and facts of the True-up Petitions for FY 2008-09 to FY 2011-12, ARR Petition for FY 2014-15 and the Rate Schedule (Tariff Proposed for different categories/ sub-categories of consumers) in at least two daily newspapers (one English and one Hindi) for two successive days for inviting views / objections by all stakeholders and public at

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कानपुर

large. The Commission had also directed the Petitioner to upload the response to the deficiency notes and all subsequent submissions on their website.

The Commission conducted the public hearing in the above matter KESCO on 4th July, 2014 at Kanpur.

The Hon'ble Commission issued tariff Order on above petitions on date 01st October, 2014 conducting the final truing up for the financial years 2008-09 to 2011-12 along with the order determining the Annual Revenue Requirement and Tariff for FY 2014-15. After the increase in tariff and considering the additional subsidy requirement from GoUP, the Hon'ble Commission has approved a total gap of Rs. 511.53 Crore.

The Commission for liquidation of the Regulatory asset approved a regulatory surcharge of 2.23% to be applicable in the supply areas of KESCO.

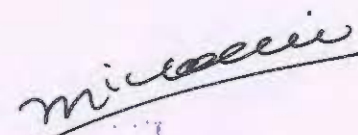
1.4 ARR AND TARIFF ORDER FOR FY 2015-16 AND TRUE-UP ORDER FOR FY 2012-13

The ARR / Tariff Petition for FY 2015-16 and True up Petition for FY 2012-13 was filed by KESCO under Sections 62 and 64 of the Electricity Act, 2003 on 8th December 2014 (Petition No. 992/2014).

KESCO submitted the audited accounts of FY 2012-13 and provisional accounts for FY 2013-14 along with the calculations of revenue gap for FY 2015-16 and the projected revenue for FY 2015-16 based on current tariff in its ARR Petitions. Further, the Rate Schedule was submitted later on 2nd January 2015. The Petition was admitted on 23rd March 2015 and the Petitioner as per directive of the Commission's admittance order published the salient feature of the above petition in various newspapers on 26th and 27th March 2015 and also uploaded the same on the website of Licensee as well as UPPCL for public comments.

The Commission conducted combined public hearing in the above matter for all Distribution Licensees namely PuVVNL, PVVNL, MVVNL, DVVNL, KESCO, NPCL and Transmission Licensee namely UPPTCL on April 9, 2015 at Sitapur, April 15, 2015 at Ghaziabad, April 21, 2015 at Orai and on April 27, 2015 at Gorakhpur.

The Hon'ble Commission issued tariff Order on above petitions on 18th June 2015 conducting the final truing up for the financial year 2012-13 along with the order determining the Annual Revenue Requirement and Tariff for FY 2015-16. After the increase in tariff, provision of carrying cost on un-recovered gaps and considering the revenue from regulatory surcharge, the Hon'ble Commission had approved a total gap of Rs. 717.29 crore.


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The Commission further provided that "the regulatory surcharge for FY 2015-16 for the consumers of LMV-1 & LMV-5 categories would be 3.91% while the regulatory surcharge for all other categories would be 4.13%".

1.5 ARR PETITION FOR FY 2016-17

A combined reading of the Section 62 and 64 of the Electricity Act, 2003 and the UPERC (Terms and Conditions of Distribution Tariff) Regulations, 2006 require a distribution licensee to file its ARR Petition by November 30, 2015.

Accordingly, the Petitioner is hereby submitting its ARR Petition for FY 2016-17 which broadly covers the following:

- True up for FY 2013-14 based on audited accounts;
- Actual performance for the financial year 2014-15 based on provisional accounts;
- Revised estimates for the financial year 2015-16; and
- Proposed ARR for the financial year 2016-17

1.6 STRUCTURE OF THE ARR PETITION FOR FY 2016-17

The structure of this ARR Petition is as under:

- | | |
|------------------|--|
| Chapter 1 | Background and Procedural History
This contains a brief background and rationale used for the submission; major issues that describe the structure of the submission. |
| Chapter 2 | True up Petition for FY 2013-14
This section deals with the true up for each element of expenditure for FY 2013-14 based on audited accounts. It provides an analysis of the actual performance vis-à-vis the approved Tariff Orders numbers and also computes the trued up revenue gap which is proposed to be recovered along with the ARR for FY 2016-17. |
| Chapter 3 | Progress of the Various Efficiency Improvement Measures taken by KESCO
This section summarizes the various system improvement measures taken by the Petitioner to improve commercial efficiencies in its area of supply and the progress of such steps over the years |
| Chapter 4 | E-Governance Initiatives by KESCO |
| Chapter 5 | Capital Investment Plan |

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This section details the nature of scheme and the expected financial outlay towards the capital investment plan for FY 2016-17. Section also provides the revised estimates in respect of capital investment for FY 2015-16.

Chapter 6 Compliance of the Hon'ble Commission's Directives

This section lists the directives issued by the Hon'ble Commission in the previous tariff order and the status of their compliances.

Chapter 7 Load Forecast and Revenue Assessment

This includes actual sales for FY 2014-15, estimates for FY 2015-16 and forecasts for FY 2016-17. It also includes actual billing determinants for FY 2014-15, estimates for FY 2015-16 and projected billing determinants and revenue assessment for FY 2015-16 and 2016-17 by consumer category.

Chapter 8 ARR for Wheeling and Retail Supply Business

This includes the ARR forecast for FY 2016-17. The ARR also includes the revenue gap figures for the aforementioned years and the segregation of the ARR among Wheeling and Retail Supply Business

Chapter 9 Retail Tariff Design

The Hon'ble Commission has adopted the philosophy of uniform state tariff in the state. As a result KESCO has not proposed any tariff rate schedule. It applies for adoption of the same tariff structure which the Hon'ble Commission would approve for the other state owned distribution companies of UP.

Chapter 10 Treatment of Revenue Gap

Due to the peculiar position of KESCO it cannot apply for the different tariff structure as the Hon'ble Commission till now has adopted the philosophy of uniform tariff in the state. Also the Hon'ble Commission has not allowed reduction in the BST in the previous tariff orders. This section deals with the revenue gap which has to be dealt with in by the Hon'ble Commission.

Chapter 11 Prayers

The main prayers are summarized in this section


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केस्को, कानपुर ➔

2. TRUE UP PETITION FOR FY 2013-14

2.1 TRUE-UP SUMMARY FOR FY 2013-14

The Petitioner submits that the audited accounts for FY 2013-14 for the Petitioner have been enclosed along with this Petition. The Petitioner seeks true-up of expenses for the year 2013-14 as per the audited accounts as applicable for various heads of expenditure. The following table summarises the truing up computations for 2013-14 for approval by the Hon'ble Commission. The Petitioner also provides the details of truing up in the subsequent paragraphs:

Table 2-1: True Up Summary for FY 2013-14

(All figures in Rs Crore)

Particulars	Approved	Actuals as per Audited Accounts	True-up Petition
Power Purchase Expenses	1,370.93	1,663.59	1,329.13
Allocation of UPPCL O&M Expenses	-	-	7.22
Transmission Charges	47.14	74.55	61.72
Employee Expenses	127.29	103.58	103.58
Repair and Maintenance Expenses	53.01	46.16	46.16
A&G Expenses	8.23	53.59	53.59
Gross Interest on Long Term Loans	3.60	294.34	-
Interest on Electricity Duty	-	-	-
Interest to Consumer	7.08	8.10	8.10
Finance Charges	0.01	0.00	0.00
Interest on Working Capital	21.11	-	21.13
Discount to Consumers	0.90	-	-
Depreciation	32.55	17.76	36.80
Prior Period Expenses	-	(41.37)	(41.37)
Other Misc Expenses / Incomes	-	-	-
Provision for Bad and Doubtful Debts	-	7.05	32.09
Gross Expenditure	1,671.84	2,227.36	1,658.15
Less: Employee Capitalisation	19.09	1.07	1.07
Less: A&G Capitalisation	1.23	0.02	0.02
Less: Interest Capitalisation	0.83	-	-
Total Capitalisation	21.16	1.09	1.09
Net Expenditure	1,650.69	2,226.27	1,657.07
Add: Return on Equity	-	-	-
Less: Non-tariff Incomes	5.65	7.04	7.04
Annual Revenue Requirement	1,645.04	2,219.24	1,650.03
Revenue from Tariff incl DPS	1,402.33	1,545.24	1,545.24
Net Revenue Gap	242.71	674.00	104.79

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The Petitioner requests the Hon'ble Commission to allow truing up for FY 2013-14 as provided in the aforementioned table. The Petitioner is detailing the rationale for truing up of some of the key issues in the subsequent paragraphs.

2.1.1 POWER PURCHASE EXPENSE

One of the major cost components of the distribution companies is cost of power, which in the present instance relate to the costs incurred by UPPCL. For the purpose of truing up of power purchase cost of Discoms, we have to re-determine the bulk supply tariff based on the actual power purchased by UPPCL and actual cost incurred for such purchase.

In the Tariff Order for FY 2013-14, the Hon'ble Commission had approved the power purchase of 84,632.00 MU at UPPCL level. The Petitioner humbly submits that the actual power purchase in FY 2013-14 was 84,251.84 MU at a value of Rs. 33,233.64 crore at overall UPPCL level.

The Petitioner has claimed the power purchase cost during truing up based on the philosophy as mentioned below:

- It has calculated the allowable power purchase input by grossing up the actual energy received at the Discom end by the approved / actual transmission losses, whichever is lower.
- The allowable power purchase input has been multiplied by the revised bulk supply Tariff to derive the allowable power purchase cost for truing up.

Considering the aforementioned philosophy, the allowable power purchase expenses for determination of trued up Bulk Supply tariff for FY 2013-14 is Rs. 33,233.64 crore and trued up Bulk Supply Tariff is Rs. 4.16 per kWh as depicted in the table below:

Table 2-2: Allowable Power Purchase Input and Bulk Supply Tariff for FY 2013-14 under truing up

Particulars	Unit	Approved	Actuals	True-up Petition
Power Purchase	MU	84,632.00	84,251.84	84,251.84
Transmission Loss	MU	4,451.00	6,665.72	4,431.01
Transmission Loss	%	5.26%	7.91%	5.26%
Energy available at Discom End	MU	80,181.00	77,586.12	79,820.83
Power Purchase Cost (including PGCIL charges)	Rs Crore	31,456.00	33,233.64	
Power Purchase Cost per unit	Rs/kWh	3.92	4.28	
Allowable Power Purchase Cost at Discom end	Rs Crore			33,233.64
Power Purchase Cost per unit at Discom end (BST)	Rs/kWh			4.16

The Hon'ble Commission in its True-up Order for FY 2008-09 to FY 2011-12 dated 01st October, 2014 as well as in the Order dated 18th June 2015 in Petition No. 992/2014 in respect of true-up for FY 2012-13 had considered a philosophy, wherein the efficiency target of Distribution loss

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level, had been considered as controllable parameter, and thereupon the power purchase cost consequent to under-achievement of Distribution loss was disallowed. To maintain consistency with the approach adopted by the Hon'ble Commission, the Petitioner has calculated the allowable power purchase input at discom end by grossing up the actual energy sales by the approved Distribution loss target or actual Distribution losses, whichever is lower. Thereafter, the allowable power purchase input has been multiplied by the Trued-up Bulk Supply Rate to derive the allowable power purchase cost for FY 2013-14 under truing up as shown in the table below:

Table 2-3: Trued up Power Purchase Cost for KESCO in FY 2013-14

Particulars	Unit	Approved	Actuals	True-up Petition
Power Purchase	MU	3,494.41	3,554.39	3,554.39
Sales	MU	2,690.70	2,458.09	2,458.09
Distribution Loss Target	%	23.00%	30.84%	23.00%
Allowable Power Purchase	MU	3,494.41	3,554.39	3,192.33
Trued up Bulk Supply Tariff	Rs/kWh	3.92	4.28	4.16
Allowable Power Purchase Cost	Rs Crore	1,370.90	1,522.51	1,329.13

2.1.2 TRANSMISSION CHARGES

In the Tariff Order for FY 2013-14 for the Petitioner, the Hon'ble Commission has approved the Transmission Charges of Rs. 47.17 crore (@ Rs. 0.135 per kWh) towards a projected power purchase of 3,494.41 MU.

As per the audited accounts, the Petitioner has incurred Rs. 74.55 crore towards transmission charges.

It is submitted that the trued up transmission charges payable to UPPTCL towards intra-state transmission are to the tune of Rs. 68.72 crore which have been computed by multiplying the allowable power purchase input of 3,192.33 MU (determined in foregoing section) by the trued up transmission charge of Rs. 0.193 per kWh which has been traced from the True-up Petition filed by the UPPTCL before the Hon'ble Commission for FY 2013-14.

Table 2-4: Allowable Intra-State Transmission Charges for FY 2013-14

Particulars	Unit	Approved	Actuals	True-up Petition
Units Wheeled	MU	3,494.41	3,554.39	3,192.3
Trued up Transmission Charge	Rs/kWh	0.135	0.210	0.193
Transmission Charges	Rs Crore	47.17	74.55	61.72

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Accordingly, the Petitioner submits that, against the approved intra-state transmission charges of Rs. 47.17 crore, the allowable transmission charges for FY 2013-14 are to the tune of Rs. 61.72 crore.

2.1.3 OPERATION AND MAINTENANCE EXPENSES

Operation and Maintenance Expenses (O&M expenses) comprises of employee expenses, repair and maintenance expenses and administrative and general expenses. Each element of O&M expenses have been examined in detail in the succeeding paragraphs.

The Petitioner submits that the actual gross employee expenses were Rs. 103.58 crore as against Rs. 127.29 crore approved by the Hon'ble Commission in the Tariff Order for FY 2013-14. The employee expenses capitalised as per audited accounts are to the tune of Rs. 1.07 crore as against Rs. 19.09 crore approved in the Tariff Order. Thus, the net employee expenses as per audited accounts are Rs. 102.51 crore as against Rs. 108.19 crore approved in the Tariff Order.

Further, the Petitioner submits that the actual gross A&G expenses were Rs. 53.59 crore as against Rs. 8.23 crore approved by the Hon'ble Commission in the Tariff Order for FY 2013-14. The A&G expenses capitalised as per audited accounts are to the tune of Rs. 0.02 crore against Rs. 1.23 crore approved in the Tariff Order. Thus, the net A&G expenses as per audited accounts are Rs. 53.57 crore as against Rs. 7.00 crore approved in the Tariff Order.

The actual repair and maintenance expenses for FY 2013-14 were Rs. 46.16 crore as against Rs. 53.01 crore approved by the Commission in the Tariff Order.

The summary of the O&M expenses approved in the Tariff Order for FY 2013-14 vis-a-vis the actual expenses as per audited accounts and those claimed in the True up are shown in the table below:

Table 2-5: Operation & Maintenance Expenses FY 2013-14

(All figures in Rs Crore)

Particulars	Tariff Order	Actuals as per audited accounts	True-up Petition
Employee Expenses	127.29	103.58	103.58
Repair & Maintenance Expenses	53.01	46.16	46.16
Administrative and General Expenses	8.23	53.59	53.59
Gross Operation and Maintenance Expenses	188.53	203.33	203.33
Less: Capitalisation			
Employee Cost Capitalized	19.09	1.07	1.07
A&G Expenses Capitalized	1.23	0.02	0.02
Total Capitalization	20.33	1.09	1.09
Net Operation and Maintenance Expenses	168.20	202.25	202.25

2.1.4 INTEREST ON LONG TERM LOANS

Interest cost is an uncontrollable cost as the interest rate regime is determined by various external factors and the actual loans taken are consequential to the capital expenditure undertaken by the Petitioner.

The Hon'ble Commission in its previous tariff and true-up orders had considered a normative tariff approach with a gearing of 70:30. Considering this approach, 70% of the capital expenditure undertaken in any year was considered to be financed through loan and balance 30% was been considered to be financed through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants was separated and the depreciation and interest thereon was not charged to the consumers & beneficiaries. The amounts received as consumer contributions, capital subsidies and grants were traced from the audited accounts. Subsequently, the financing of the capital investment was worked out based on the gearing ratio of 70:30 and allowable depreciation was considered as normative loan repayment.

The Petitioner for the purposes of this true up petition for FY 2013-14 has claimed the interest and finance charges based on the same philosophy.

Considering the Capital Work in Progress balances (CWIP) and Gross Fixed Asset (GFA) balances as per audited accounts, the Petitioner has derived the actual capital investments undertaken by it in FY 2013-14. The details are provided in the table below:

Table 2-6: Capital Investments in FY 2013-14

(All figures in Rs Crore)

Particulars	Derivation	2013-14
Opening WIP as on 1st April	A	44.09
Investments	B	12.13
Employee Expenses Capitalisation	C	1.07
A&G Expenses Capitalisation	D	0.02
Interest Capitalisation on Interest on long term loans	E	0.00
Total Investments	F= A+B+C+D+E	57.30
Transferred to GFA (Total Capitalisation)	G	32.75
Closing WIP	H= F-G	24.55

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The table below summarises the amounts received towards consumer contributions, capital grants and subsidies in FY 2013-14:

Table 2-7: Consumer Contributions, Capital Grants and Subsidies in FY 2013-14

(All figures in Rs Crore)

Particulars	2013-14
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	149.62
Additions during the year	11.19
Less: Amortisation	10.22
Closing Balance	150.59

Thus, the eligible financing of the capital investment is depicted in the table below:

Table 2-8: Financing of the Capital Investments in FY 2013-14

(All figures in Rs Crore)

Particulars	Derivation	2013-14
Investment	A	12.13
Less:		
Consumer Contribution	B	11.19
Investment funded by debt and equity	C=A-B	0.94
Debt Funded	70%	0.66
Equity Funded	30%	0.28

Thus, from the above tables it is seen, that the Petitioner has made an investment of Rs. 12.13 crore in FY 2013-14. The consumer contributions, capital subsidies and grants received during the corresponding period is Rs. 11.19 crore. Thus, the total investment is been made out of the capital contribution received during the year. Allowable depreciation for the year has been considered as normative loan repayment.

The actual weighted average rate of interest of 12.90% has been considered for computing the eligible interest expenses. The opening balance of long term loan has been considered from the loan balance as per audited accounts for FY 2013-14.

Since the normative loan repayment is considered to be equivalent to depreciation, the deed repayment is higher than the loan addition. Resultantly, there is no allowable interest on loan expenses for FY 2013-14. The computations for interest on long term loan are depicted below:

Table 2-9: Allowable Interest on Long Term Loan for FY 2013-14

(All figures in Rs Crore)

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Particulars	True up Petition
Opening Loan	-
Loan Additions (70% of Investments)	0.66
Less: Repayments (Depreciation allowable for the year)	36.80
Closing Loan Balance	-
Weighted Average Rate of Interest	12.90%
Interest on long term loan	-
Interest Capitalisation Rate	-
Less: Interest Capitalized	-
Net Interest Charged	-

2.1.4.1 INTEREST ON CONSUMER SECURITY DEPOSITS

In terms of the Regulation 4.8(3) of the Distribution Tariff Regulation, the Licensee has to pay interest to the consumers at bank rate or more on the consumer security deposit. Further, section 47(4) of the 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 Petitioner humbly submits that the actual interest on consumer security deposit paid in FY 2013-14 is to the tune of Rs. 8.10 crore as against Rs. 7.08 crore approved in the Tariff Order. It is humbly prayed that the variation may be allowed in the true up.

2.1.4.2 BANK AND FINANCE CHARGES

The Petitioner humbly submits that is has incurred bank and finance charges to the tune of Rs. 0.001 crore as per audited accounts towards expenditures like bank charges, finance charges, etc and the same be allowed in the true up for FY 2013-14.

2.1.4.3 INTEREST ON WORKING CAPITAL

In the Tariff Order for FY 2013-14, the Hon'ble Commission had allowed Rs. 21.11 crore towards interest on working capital. The Distribution Tariff Regulations provide for the normative interest on working capital based on the methodology outlined in the Regulations. Accordingly, the Petitioner hereby claims Rs. 21.13 crore towards interest on working capital for FY 2013-14 as computed in the table below:

Table 2-10: Allowable Interest on Working Capital for FY 2013-14

(All figures in Rs Crore)

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Particulars	Derivation	True up Petition
O&M Expenses		
Employee Expenses		103.58
R&M Expenses		46.16
A&G Expenses		53.59
Total O&M Expenses	A	203.33
One Month's O&M Expenses	$B = 1/12 \text{ of } A$	16.94
Book Value of Stores	C	30.29
One twelfth of the sum of book value of the material in stores	$D = 1/12 \text{ of } C$	2.52
Receivable equivalent to 60 days average billing of consumers	E	254.01
Less: Total Security Deposits by the Consumers reduced by Security Deposits under section 47(1)(b) of the Electricity Act 2003	F	104.45
Total Working Capital Requirement	G = B + D + E - F	169.03
Interest rate	H	12.50%
Interest on working capital	I = G x H	21.13

The following table summarises the interest and finance charges claimed by the Petitioner as against those approved by the Commission in the Tariff Order for FY 2013-14:

Table 2-11: Allowable Interest and Finance Charges for FY 2013-14
(All figures in Rs Crore)

Particulars	Tariff Order	Actual as per audited accounts	True-up Petition
A: Interest on Long Term Loans			
Gross Interest on Long Term Loan	3.60	294.34	0.00
Less: Interest Capitalisation	0.83	0.00	0.00
Net Interest on Long Term Loans	2.77	294.34	0.00
B: Finance and Other Charges			
Interest on Consumer Security Deposits	7.08	8.10	8.10
Bank Charges	0.01	0.00	0.00
Discount to Consumer	0.90	0.00	0.00
Finance Charges	0.00	0.00	0.00
Total Finance Charges	7.99	8.10	8.10
C: Interest on Working Capital	21.11	0.00	21.13

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Particulars	Tariff Order	Actual as per audited accounts	True-up Petition
Total (A+B+C)	31.87	302.44	29.23

2.1.5 DEPRECIATION

The actual depreciation expense charged in the audited accounts is Rs. 17.76 crore. However, the same has been accounted for considering the depreciation rates prescribed by the Companies Act, 1956.

The Petitioner has computed the allowable depreciation expense on the GFA base as per audited accounts for FY 2013-14 and at the rates approved by the Commission in the Tariff Order for FY 2013-14 i.e., @ 7.84%. The Petitioner has computed the depreciation only on the depreciable asset base and has excluded the non-depreciable assets such as land, land rights, etc.

Considering this philosophy, the gross entitlement towards depreciation has been computed at Rs. 47.01 crore.

Table 2-12: Gross Allowable Depreciation for FY 2013-14

(All figures in Rs Crore)

Particulars	Opening GFA	Additions to GFA	Deductions to GFA	Closing GFA	Depreciation Rates considered	Allowable Depreciation
Buildings						
a. Residential Colonies	10.22	0.02	-	10.24	7.84%	0.80
b. Office Building	1.68	-	-	1.68	7.84%	0.13
c. Building Containing at Sub-stations	17.20	0.22	-	17.43	7.84%	1.36
Plants & Machinery						
a. Plant & Machinery	161.91	10.77	-	172.68	7.84%	13.12
b. Lines, Cables, Networks etc.	377.74	18.46	-	396.21	7.84%	30.34
c. Office Equipments	6.37	0.09	-	6.45	7.84%	0.50
d. Computers	3.39	3.17	-	6.56	7.84%	0.39
Furniture & Fixtures	1.30	0.02	-	1.32	7.84%	0.10
Vehicles	3.45	-	-	3.45	7.84%	0.27
Grand Total	583.27	32.75	-	616.02	7.84%	47.01

The Petitioner has traced the figures in respect of depreciation charged on assets created out of consumer contributions, capital grants and subsidies from the audited accounts. This equivalent depreciation amounting to Rs. 10.22 crore has been reduced from the allowable depreciation for FY 2013-13.

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Thus the allowable depreciation for FY 2013-14 is Rs. 36.80 crore as depicted in the table below:

Table 2-13: Net Allowable Depreciation for FY 2013-14

(All figures in Rs Crore)

Particulars	Tariff Order	Actual as per audited accounts	True-up Petition
Gross Allowable Depreciation	51.43	27.98	47.01
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and GoUP Subsidy	18.89	10.22	10.22
Net Allowable Depreciation	32.54	17.76	36.80

2.1.6 PRIOR PERIOD EXPENSES

The Petitioner submits that it prepares its financial statements in compliance with Generally Accepted Accounting Principles (GAAP's) and Accounting Standards issued by Accounting Standards Board of Institute of Chartered Accountants of India.

There are certain prior period items which have been identified and incorporated in the audited financial statements for 2013-14. As per Accounting Standards (AS 5) (Revised) on 'Net Profit or Loss for the Period, Prior Period Items and Changes in Accounting Policies' states:

'Prior period items are income or expenses which arise in the current period as a result of errors or omissions in the preparation of the financial statements of one or more prior periods'

In the audited financial statements of the Petitioner for FY 2013-14, there has been recognition of Rs 45.80 crore of prior period incomes and prior period expenses of Rs 4.43 crore, thereby decreasing the eligible true-up by Rs. 41.37 crore.

The following table provides the detailed break-up of the prior period items for FY 2013-14 as per audited accounts

Table 2-14: Prior Period Items for FY 2013-14

(All Figures in Rs Crore)

Particulars	True-Up Petition
Income	
Misc. Receipt	45.80
Expenditure	
Operating Expenses	0.22
Employee Cost	1.05

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Particulars	True-Up Petition
Interest and Finance Charges	0.93
Admn. Expenses	2.22
Sub-Total B	4.43
Total	-41.37

2.1.7 PROVISION FOR BAD AND DOUBTFUL DEBTS

The Tariff Order for FY 2013-14 did not allow any amounts towards Provision for Bad and Doubtful Debts. The Petitioner humbly submits that such expenses are legitimate business expenses. It is further submitted that provision for bad & doubtful debts are accepted accounting principle even in sector like Banking where the provisioning of un-collectable dues are considered as a normal commercial practice.

The entitlement towards provision for bad and doubtful debts has been computed at 2% of the closing revenue receivables as per audited accounts of the relevant financial year.

Table 2-15: Allowable Provision for Bad and Doubtful Debts

(All Figures in Rs Crore)

Particulars	Rs Crore
Total Revenue Receivables from Retail Sales	1,604.51
% of Provision for Bad and Doubtful Debts	2%
Provision for Bad and Doubtful Debts	32.09

2.2 REVENUE SIDE TRUING UP

2.2.1 REVENUE FROM SALE OF POWER

The Hon'ble Commission had projected revenue from sale of power of Rs. 1,402.33 crore for FY 2013-14. The audited accounts have reported the actual revenue from sale of power to be Rs. 1,545.24 crore (including delayed payment surcharge) towards electricity sales of 2,458.09 MU.

2.2.2 NON TARIFF INCOMES

The Petitioner submits that against the projected non tariff incomes of Rs. 5.65 crore in the Tariff Order, the actual non tariff incomes have been Rs. 7.04 crore.

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3. PROGRESS OF VARIOUS EFFICIENCY IMPROVEMENT MEASURES UNDERTAKEN

As per the directives and guidelines specified by the Hon'ble Commission towards efficiency improvement, KESCO has made concerted efforts to improve its operations and is committed to implement a number of technical and commercial measures in this direction in FY 2015-16 (current year) and FY 2016-17 (ensuing year). 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:

SYSTEM IMPROVEMENT INITIATIVES

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

3.1 ENHANCEMENT OF CAPACITY OF EXISTING 33KV SUBSTATIONS

At some grid substations, existing power transformers 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. Reliable Supply.
- b. Prevention of frequent failures.
- c. Reduction of overloading in existing system.
- d. Reduction of technical losses.
- e. Down time reduction.
- f. Load growth.

3.2 CONSTRUCTION OF NEW 33KV SUBSTATIONS

In order to meet bulk load requirement & continuous increase in load demand in particular area new substations are commissioned. The voltage is tapped at 33kV level and is stepped down to 11kV with the use of power transformers. From power transformer, a number 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.

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3.3 ADDITION OF NEW TRANSFORMERS

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

3.4 OTHER INITIATIVES

1. Capacity enhancement of Distribution substation and strengthening the distribution system to be compatible to load growth.
2. Distribution Automation: It is envisaged that 33kV and 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.
3. Replacement of old conductors.
4. Replacement of damaged poles.

3.5 COMMERCIAL PROCESS IMPROVEMENT

- a. For proper accounting of energy & reducing chances of theft, double metering system is being implemented & is yielding encouraging results.
- b. For speedy redressal of consumer grievances, call centre has been established and Control rooms have been set up.
- c. In all theft prone areas overhead conductor are being replaced with ABC (Aerial Bunched Conductor). This has helped in the reduction of line losses and break-downs and has resulted in better quality of supply & consumer satisfaction.
- d. Provision of periodic checking of all static and trivector meters installed in high value consumers premises.
- e. Special drive to check the cases of theft/unauthorized use of electricity/checking of excess load being carried out in different distribution divisions by officers of KESCO.

Special team of headquarter Engineers and Vigilance teams comprising of KESCO's officers and Police personnel's have been formed in each circle. With these teams surprise raids are conducted to direct theft of energy/Katiya connections.

- f. Special camps are organized to collect revenue from the consumers to solve their problems on the spot.

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- g. Regularization of illegal connections and ledgerisation of unledgerised connections is being monitored to arrest revenue loss.
- h. 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.
- j. 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.


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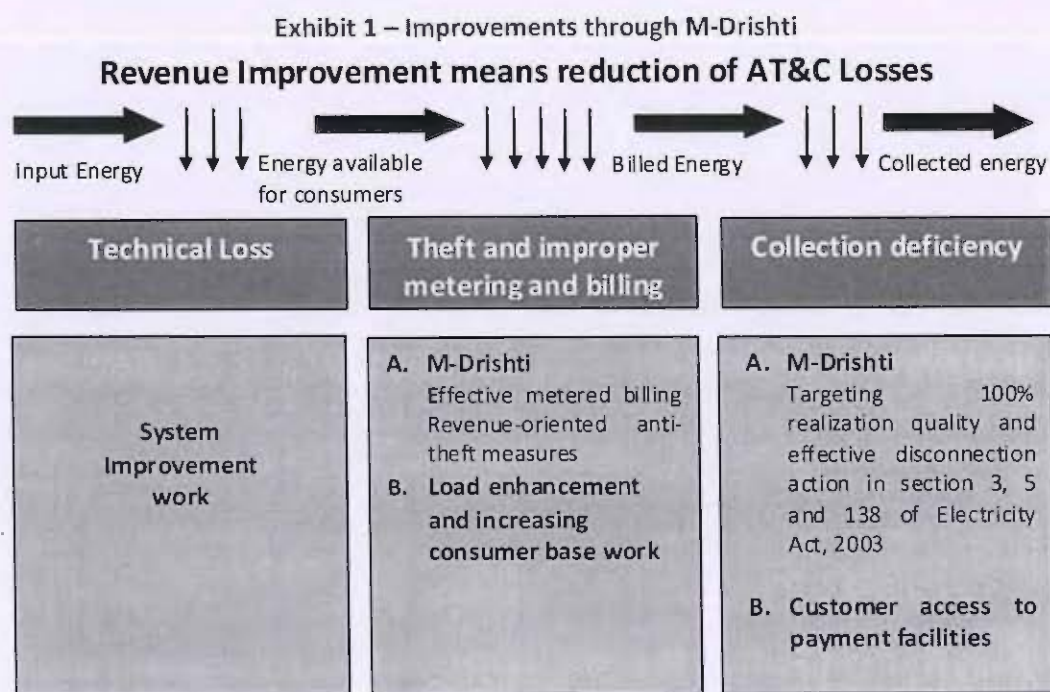
4. E-GOVERNANCE INITIATIVES BY KESCO

KESCO has undertaken a slew of E-governance initiatives which are aimed at higher revenue realization, better consumer satisfaction and maintaining the highest standard of professionalism and ethics in the organization.

The key initiatives have been discussed below:

4.1 M-DHRISTI

KESCO like other power distribution utilities faced high AT&C losses in the recent past. There was no end-to-end tracking of theft or raids as well as revenue assessment and realization. Even for billed but non-paying consumers, there was no accurate record of disconnections undertaken and subsequent action. Apart from this, many consumers had defective/mechanical meters installed on their premises and were, therefore, billed on an average basis. There was no mechanism to track meter replacement works. Against this backdrop, KESCO introduced a mobile-based tracking system - M-Drishti; to ensure end-to-end tracking of in-field revenue-related activities like raids, meter replacements and disconnections.



Under M-Drishti, 2G internet services have been activated on the official mobile handsets of all distribution officials. Separate user IDs and password have been created to log in the mobile M-Drishti interface and fill in details of field activities undertaken by the officials.

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In the event of meter checking or a raid, a brief report is filed on the spot and sent via the mobile handsets to the central server. Similarly, for any disconnection against electricity dues or FIR lodged under section 138 of the electricity Act, 2003 the information of action taken on the spot is sent to the central database on a real-time basis. At the server end, the collected information is updated by the concerned division. Once the assessed revenue at the field level has been entered, it can be edited and the final assessment can be undertaken by the concerned division.

Action taken in terms of issuance of notice under Sections 3 and 5 etc. can be recorded by the concerned division. This holds true for disconnections, the amount realized therein, action taken in case of non-realization, etc. For meter replacements, a daily report of meters replaced (defective/mechanical/otherwise) is linked with the online advice. The system generates various management information system (MIS) reports, which enables performance monitoring.

4.2 BILL PAYMENT OPTIONS

KESCO has introduced several new payment options for consumers. These include:

4.2.1 ONLINE BILL PAYMENT

Consumers can log on to the company website to pay electricity bills to pay electricity bills through a payment gateway or net banking. A snapshot of the website of the Petitioner where the facility of online payment is provided is illustrated below:

Exhibit 2 – Snapshot of KESCO's website



4.2.2 PAYMENT THROUGH MOBILE PHONES

Customers can pay, accept and transfer money through mobiles handsets and all the KESCO's PCs/Mobiles/landlines act as a point-of-sale terminals. There are various options to pay through phones.

4.2.3 CALLING ON THE HELPLINE NUMBER (THROUGH IVRS)

Through this system, customers can call on the numbers provided by KESCO for bill payment. The call will land on the interactive voice response system (IVRS) which captures the consumer number and card information, and connects to KESCO's bank payment gateway for processing the transaction. On successful payment authorization, the IVRS updates the payments details on the master server.

4.2.4 DIRECT MOBILE BASED PAYMENT SERVICES

Through this system, customers log on to the vender's mobile application (white labeled for KESCO) for bill payments after downloading it. The mobile application captures the consumer's number and card information of the customer, and connects to KESCO's bank payment gateway for processing the transaction. On successful payment authorization, the mobile system updates the payment details on the master system.

4.2.5 SMS-BASED PAYMENT SOLUTION

Under this system, customers initiate the payment request through SMS. The server sends a message to the customer on the registered mobile number as the payment confirmation receipt for every successful transaction. The system also sends SMS alerts to customers for the due date for bill payment to avoid uninterrupted services as well as for payment confirmation.

4.2.6 PAYMENT THROUGH ATM

KESCO has tied up with the Punjab National Bank (PNB) for electricity bill payment through ATM outlets. A PNB consumer can go to the bank's ATM, which has "KESCO bill payment" as an option. Customer can select this option see their bill, enter their card details and electricity account number, and pay the bill. A receipt is generated and the payment is automatically updated on KESCO's central billing server. At present, options to pay bills through debit cards/ATMs of other banks are being considered.

4.2.7 PAY FROM HOME

Consumers can make cheque payments through the billing agency-the meter reader, who generates bills for consumers through hand held machines at their doorstep. A hand-held-generated receipt is provided to consumers. Besides the aforementioned methods of revenue

realization, increasing the customer base by providing easy access to new connections is important. The launch of single-window services is an initiative towards this end.

4.3 URJA MITRA - CONSUMER INTERFACE

The basic concern of the consumers of any power distribution company is uninterrupted supply. The electricity demand-supply gap being critical issue in India, most of the utilities fail to ensure uninterrupted supply. This causes consumer dissatisfaction and lack of trust for the concerned officials. The unavailability of correct information related to the cause and expected time of interruption adds to customer concerns resulting from local faults, which take hours to be restored. Moreover, at times, related queries are not adequately addressed by substation staff, which results in law and order issues.

To address these issues, KESCO has launched an initiative, Urja Mitra, which seeks to:

- Provide information about power rostering/cuts/breakdowns/shutdowns to consumers on their landline/mobile phones
- Establish mutual trust between citizens and distribution officials

Any scheduled/unscheduled rostering/breakdown is reported to the central control room. The call centre operator selects the specific substation or the 33kV/11kV feeder in the case of breakdowns and the entire area for rostering. Consumers of the concerned area are automatically selected by the software and as soon as a command is given, SMS alerts and voice calls are sent to them.

Therefore, the message provides specific breakdown information to the concerned customer along with the expected time of power supply restoration. These SMS alerts are sent on 24x7 bases to all affected consumers, while voice calls are sent only during the day.

So far, over 80,000 phone numbers have been collected from the live consumer base of 450,000. Efforts are being made to cover the remaining customers through billing agencies/division offices. They can also log on to the KESCO web site and register their phone numbers for availing of these services. There has been a positive response to the initiative. Customers are enrolling themselves to access information via Urja Mitra and there has been a reduction in general complaints about the behavior of division/substation officials during power interruptions as well as law and order issues.

4.4 ACCESS TO NEW CONNECTIONS

The aforementioned three services are the key links between consumers and a distribution company. These services not only help in enhancing consumer experience but are also the most important source to revenue enhancement. Therefore, to provide easy access to these services, a single-window system has been launched in all divisions of KESCO. This system enables consumers

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to apply for, pay and avail of any service. New connections of up to 4kW are provided within seven days and for load enhancement, requests are processed on the same day. The system also ensures that the registration number and the confirmation for work completion are communicated to consumers on their mobiles numbers.

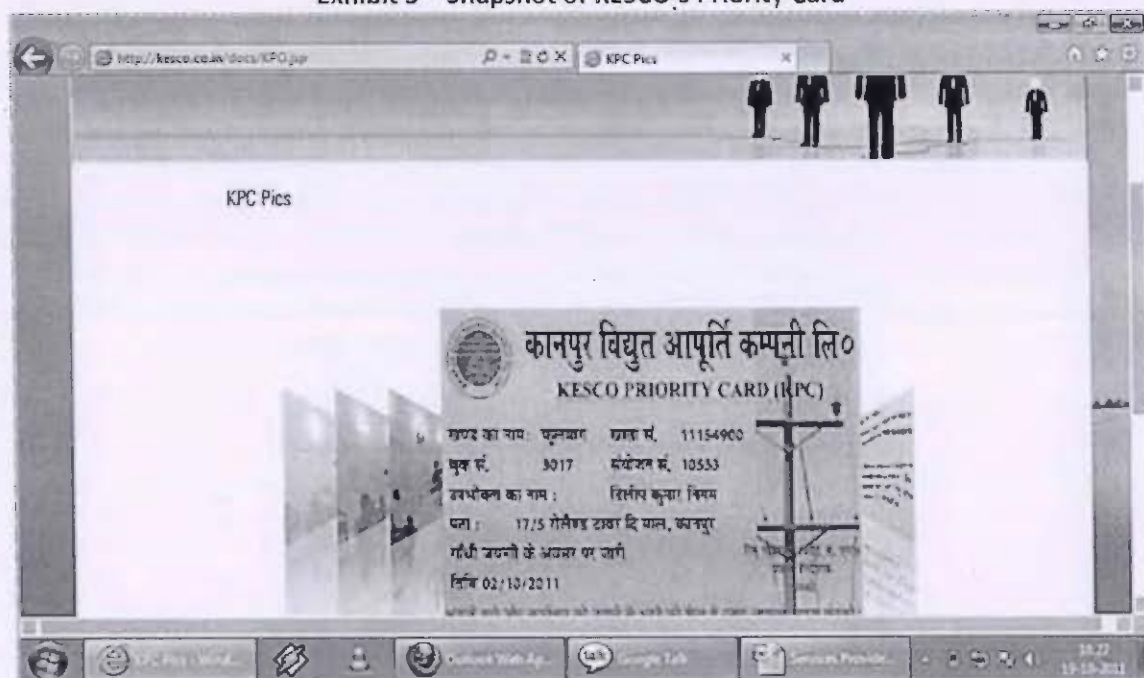
KESCO has also designated two days of each month, the 10th and 20th days, as Urja Diwas. On these days, special camps are organized in all the division for new connections, etc. and efforts are made to register connections after verifying the details at the earliest. Spare project teams and meters are kept for expediting execution, and supervisory officers pay surprise visits on these days and monitor the performance of divisions on a rotation basis.

4.5 KESCO PRIORITY CARD (KPC)

To build a steady and harmonious relationship with consumers, a unique initiative, KESCO Priority Card (KPC), has been introduced. This schemes offers benefits to customers who have been regularly paying their electricity bills for the past five years, have electronic meters and have never been involved in power theft. These consumers are being issued KPCs and are treated as privileged customers.

These customers can avail of several benefits-they are not required to stand in queues for bill payments are the first ones to be called for grievance redressal, etc. KPCs are being issued in phases to customers and there are plants to provide additional services under the scheme. The initiative has been a major success.

Exhibit 3 – Snapshot of KESCO's Priority Card



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4.6 DEDICATED 24X7 CALL CENTRE

A centralized call centre has been launched to improve customer services, increase staff efficiency and provide a single-window clearance mechanism for all customer complaints. The call centre is designed to address consumer complaints regarding power outages, wrong billing, payments, metering, etc.

The redressal time frame for different complaints categories range from four hours to 15 days, and unaddressed complaints are forwarded to every subsequent higher officials till being addressed. The software also generates MIS reports of the lodged and solved complaints as well as officer-wise defaulter lists, which are monitored at the highest level. This system is also integrated with SMS facilities for consumers/officers at the time of registration as well as redressal.

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5. INVESTMENT PLAN DETAILS

Large investments have been planned in order to reduce T&D losses and to maintain reliable supply. 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:

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

The various schemes under which the capital expenditure programs are envisaged are detailed below:

5.1 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

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collection system for the distribution utilities through which they would be 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:-

- Identification of high loss areas
- Preparation of investment plans for identified areas
- Implementation of plan
- Monitoring of Losses

5.2 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 to the load growth occurring due to regular increase in load in existing set-up as well as due to high propensity to consume power due to higher disposable incomes. 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.

5.3 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. This is important for reducing losses and in reduction of occurrence of accidents

5.4 AUGMENTATION OF DISTRIBUTION NETWORK

For any distribution system it is important to augment the network on a continual basis to cater to the load growth and achieving optimal operating efficiency of the distribution equipment. With the increasing demand of power and to balance the load distribution, new sub-stations have been identified where capacity enhancement is required.

5.5 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

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not correctly metered due to defective metering. This needs immediate replacement. Presently the Petitioner is releasing all the new connections with meters. Investment is required towards replacement and installation of meters. Further additional investment has been envisaged towards installation of 3-phase meters

5.6 INSTALLATION OF AERIAL BUNCH CONDUCTORS

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.

5.7 CONSUMER DEPOSIT WORKS

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.

5.8 CAPITAL INVESTMENT PLAN FOR FY 2015-16 AND 2016-17

The capital expenditure being undertaken in FY 2015-16 is summarized in the table below:

Table 5-1: Capital Expenditure in FY 2015-16 (Rs Crore)

Description	Qty	Capital Expenditure			
		Loans	Equity / Internal Accruals	Deposit Works	Total
Capacity Enhancement/Construction of 33/11 kV Sub-stations	2 Nos	0.28	0.12	0.00	0.40
Replacement of Damaged 33kV Breakers	5 Nos	0.09	0.04	0.00	0.12
Replacement of Damaged 11kV Incoming/Outgoing/Bus-Couplers with Breakers	10 Nos	0.12	0.05	0.00	0.18
Installation of 250 KVA and 400 KVA transformers	13 - 400 KVA; 64 - 250 KVA	0.94	0.40	0.00	1.34
Capacity enhancement of distribution transformers from 250KVA to 400 KVA	34 Nos	0.31	0.13	0.00	0.45
Installation of Aerial Bunch Conductor	250 Kms	4.29	1.84	0.00	6.13
Replacement of Old Conductors	19 Kms	0.29	0.13	0.00	0.42
Replacement of Old Poles	770 Nos	0.31	0.13	0.00	0.44

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Description	Qty	Capital Expenditure			
		Loans	Equity / Internal Accruals	Deposit Works	Total
Replacement of 33kV Line	11.45 kms	1.53	0.66	0.00	2.18
Construction of 33 KV Overhead Line	4 kms	0.29	0.13	0.00	0.42
Construction of 33 kV underground line	10 Kms	2.64	1.13	0.00	3.77
Construction of 11 kV Overhead line	17 kms	0.47	0.20	0.00	0.68
Replacement of 11Kv cables/underground cables	27.5 Kms	1.24	0.53	0.00	1.77
Plinth works and Fencing Works of Transformers	140 Nos	0.30	0.13	0.00	0.43
Guarding of 33kV and 11kV S/S	20 Kms	0.11	0.05	0.00	0.15
Replacement & Installation of Meters	42000 Nos	1.50	0.64	0.00	2.15
Installation of 3 phase meters	3500 Nos	0.50	0.22	0.00	0.72
Checking of Meters	50000 Nos	0.50	0.21	0	0.72
Double Metering of Consumers	0	-	-	0	-
(a) LT Meters	1000 Nos	0.50	0.21	0	0.72
(b) HT Meters	171 Nos	0.36	0.15	0	0.52
Purchase and Installation of L.P.R	1500 Nos	0.10	0.04	0	0.14
Investment on the new Online Billing Centers	5 Nos	0.10	0.04	0	0.14
Business Plan		71.75	30.75	0	102.50
Underground Cable Works		50.40	21.60	0	72.00
System Improvement	NA	0.82	0.35	0	1.18
Deposit Works	NA	0	0	4.44	4.44
Total	0	139.76	59.90	4.44	204.09

Further for FY 2016-17, investments to the tune of Rs. 184.27 crore have been envisaged under Integrated Power Development Scheme (IPDS) of Govt. of India. The copy of the capital investment scheme to be sent for project appraisal the nodal agency of Govt. of India for its approval is enclosed herewith and marked as 'Annexure-4'. Additionally investments through deposit works to the tune of Rs. 20 crore have been projected for the ensuing year. Thus, the total capital expenditure has been projected to the tune of Rs. 204.27 crore for FY 2016-17.

The scope of works under for strengthening of sub-transmission and distribution network under the IPDS scheme include the following:

- Creation of new sub stations including GIS along with associated 66 KV/ 33KV/ 11 KV lines.
- Augmentation of existing sub-stations capacity by installation of higher capacity/ additional power transformer along with associated equipment / switchgear etc.

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- Erection of HT lines for re-orientation/ re-alignment including augmentation of existing lines.
- Installation of new distribution transformers and augmentation of existing distribution transformers along with associated LT lines.
- Installation of capacitors.
- Renovation and Modernization of existing sub-stations and lines.
- Laying of under-ground cables in densely populated areas and areas of tourism and religious importance.
- High voltage distribution system (HVDS).
- Aerial Bunched Cable for theft prone areas.
- IT Applications:-
 - ERP
 - Customer Care Services.

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6. COMPLIANCE OF HON'BLE COMMISSION'S DIRECTIVES

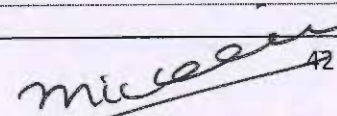
The Hon'ble Commission had issued certain directives to the Petitioner in the FY 2015-16 tariff order dated 18th June, 2015. The Petitioner submits the status of compliance of the directives as follows.

Table 6-1: Status of Compliance of the Directives issued vide Order dated 18.06.2015

Ref SI No.	Description of Directive	Status of Compliance
1	The Commission directs the Licensee to pressingly pursue the GoUP for finalisation of the Transfer Scheme and submit a copy of the same.	The Petitioner humbly submits that the process of allocation of PPAs to the Discoms has already been sent to the GoUP for notification and the matter is still pending at their level.
2	The Commission directs the Licensee to frame an appropriate policy on capitalization of (i) employee costs, and (ii) A&G expenses.	The Petitioner's policy on capitalization of (i) employee costs, and (ii) A&G expenses has been provided in the Notes on Accounts annexed with the audited accounts which is reproduced below: <i>"Due to multiplicity of functional units as well as multiplicity of function at particular unit, employee cost and general & administration expenses to capital works are capitalised @ 15% on distribution and deposit work, 11% on other works on the amount of total expenditure."</i>
3	The Commission directs the Licensee to submit Fresh Actuarial Valuation Study Report in respect to employee expenses.	The Petitioner submits that the matter would be taken up at UPPCL level as common cadre is maintained in the Discoms and UPPCL.
4	As lack of approved transparent policy on identifying and writing off bad debts is hindering allowance of bad debts as an ARR component; the Commission directs the Licensee to submit ten sample cases of LT & HT consumers where orders have been issued for writing off bad debts, clearly depicting the procedure adopted for writing off bad debts along with policy framework for managing bad debts for the Commission's perusal.	The Petitioner submits that it has framed a policy for identifying and writing off old arrears and a copy of the same was submitted to the Hon'ble Commission during the proceedings in respect of ARR and Tariff Petition for FY 2014-15. Appropriate directions have been issued to the field units to compile the sample cases based on such order issued by the licensee.
5	The Commission directs the Licensee to submit data related to its peak demand and off peak demand in MW along with its sales projections in accordance with Clause 3.1.4 of the Distribution Tariff Regulations	The Petitioner humbly submits that the connected load is around 1690 MW and the R.D.M is around 480 MW.

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Ref Sl No.	Description of Directive	Status of Compliance
6	The Commission directs the Licensee to reconcile the inter-unit balances lying un-reconciled either itself or through independent chartered accountant firms.	The Petitioner submits that the determination of tariff is done by the Hon'ble Commission on normative basis based on the Tariff Regulations. As such the inter-unit reconciliation has no forbearance on the ARR and Tariff determination and assessment of revenue gap.
7	The Commission directs the Licensee to pay the applicable interest on consumer's security deposit as per the Orders of the Commission and submit the compliance report with the next ARR filing. Licensees are directed to ensure the timely payment of the interest on security deposit to the consumers.	The Petitioner submits that the interest on consumer security deposit is being credited to the consumer's account in terms of the Supply Code and Tariff Orders of the Hon'ble Commission.
8	The Commission directs the Petitioner to ensure to convert all the 18 consumers under LMV-3 category into metered connections within one month of the issue of this Order failing which the Commission will resort to take stringent action against the Petitioner.	Suitable action has been initiated as per the directions of the Hon'ble Commission.
9	As regards the Commission's directives to submit a road map for 100% metering in its licensed area given in the Tariff Order dated 31st May, 2013, the Licensees has not complied with the directions of the Commission. The Commission once again directs the Licensee to comply with the direction given by the Commission in this Order and accordingly put it sincere efforts to achieve 100% metering.	The Petitioner submits that as per the Uttar Pradesh Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014 the study for assessment of metered and unmetered consumers has to be completed by 30.09.2015 and 31.12.2015 respectively. Accordingly, the same would be completed in the stipulated timeframe.
10	The Commission further directs the Petitioner to sign the MoUs to be implemented at all levels and submit the copy of the same to the Commission.	The Petitioner humbly seeks some more time to comply with the directives of the Hon'ble Commission.
11	As regards timely filing of FPPCA the Commission once again directs the Licensees that they should file FPPCA in a timely and regular manner in accordance with the Distribution Tariff Regulations, 2006 failing which the Commission may have to resort to take strict action against	The Petitioner states that the decision on the Petition filed towards clarification/ modification of the FPPCA formula has been taken by the Hon'ble Commission in its order dated 18 th June 2015. Accordingly, the Petitioner would be filing its FPPCA submissions from the first billing quarter after the issue of the FY 2016-17 tariff order i.e.,


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Ref Sl No.	Description of Directive	Status of Compliance
	the Licensees like disallowance of additional power purchase expenses and the associated carrying cost on account of additional Power Purchase expenses or any other action that the Commission may deem fit while doing the Truing up.	July to September 2015 by the end of December 2015.
12	As regards the choice of connection, the Licensee, in accordance with the provisions of the supply code wherein the consumer has the choice to opt the supplier, is directed to release connections to all such consumers who desire to disconnect their connections from the single point supplier and instead wish to take connections directly from the Licensee and submit the status report on the same along with next ARR filing	Wherever feasible (both technical and economical), the Petitioner is complying with the provisions of the Supply Code.
13	The Licensee is directed to file a separate Petition for approval of prior period expenses / incomes. The Petition should clearly indicate the head-wise year-wise bifurcation of prior period expenses / incomes clearly indicating the impact of such expenses / incomes on various ARR components, and such impact should not exceed the normative expenses for any particular year.	The Petitioner submits that the prior period expenses / incomes are recognised in the financial statements in compliance with the Accounting Standards (AS 5) (Revised) on 'Net Profit or Loss for the Period, Prior Period Items and Changes in Accounting Policies' which does not require year wise classification of prior period items. As there was no statutory requirement of classifying the prior items with respect to the each year to which they pertain, such information was not specifically depicted in the audited accounts. Considering this, the expenses and incomes which are omitted to be accounted for in one or more financial years are accounted for as and when such omissions or errors are detected. However, given the directive by the Hon'ble Commission, the Petitioner has instructed the field units to compile such information. The information made available by the field units would be compiled at the zonal level and then zonal accounts would be compiled at the corporate level. Given the complexity of this task, the Petitioner seeks waiver from immediate submission of this information.
14	The Licensee is directed to submit a note	Kesco supply area comprises of urban town areas

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Ref Sl No.	Description of Directive	Status of Compliance
	detailing the area-wise actual number of supply hours provided to rural areas by the end of FY 2015-16.	of Kanpur city and as such there are no rural areas being catered by the Petitioner.
15	The Distribution Licensees are directed to submit the actual Regulatory Surcharge recovered in FY 2015-16 on account of the Revenue Gap / Regulatory Asset admitted by the Commission in this Order along with the actual Distribution Losses achieved in FY 2015-16 and additional target consumers added in FY 2015-16 by 15th April, 2016.	As per the directives of the Hon'ble Commission and the timelines prescribed, the details towards the recovered FPPCA would be submitted by 15 th April 2016.
16	The Commission directs the Licensee to evolve principles for prudent segregation of ARR towards wheeling function and retail supply function embedded in the distribution function in accordance with Clause 2.1.2 of the Distribution Tariff Regulations.	The Petitioner humbly submits that the Hon'ble Commission being an expert body may take up a study in this regard. Alternately, if the Petitioner is required to take up such study, then the Hon'ble Commission is requested to provide the terms of reference of such study so as ensure that the study is conducted in an objective manner.
17	The Commission directs the Licensee to submit a long term business plan in accordance with Clause 2.1.7 of the Distribution Tariff Regulations. The Licensee in such business plan shall identify capex projects for the ensuing year and subsequent four years and submit detailed capital investment plan along with a financing plan for undertaking the identified projects in order to meet the requirement of load growth, refurbishment and replacement of equipment, reduction in distribution losses, improvement of voltage profile, improvement in quality of supply, system reliability, metering, communication and computerization, etc.	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.
18	The Commission directs the Licensee to conduct benchmarking studies to determine the desired performance standards in accordance with Clause 2.1.8 of the Distribution Tariff Regulations.	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.

Ref Sl No.	Description of Directive	Status of Compliance
19	The Petitioner should file its Annual ARR/ Tariff Petition for FY 2016-17 as per the Regulations 12.2, 12.7, 12.8, 12.9 notified vide MYT Regulations, 2014	The instant petition has been filed duly complying with the indicated provisions of the 2014 Tariff Regulations.
20	The Petitioner should complete the Assessment Study of metered consumers as per the Regulations 16.2 notified vide MYT Regulations, 2014 and subsequently submit the report to the Commission	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.
21	The Petitioner should complete the Assessment Study of un-metered consumers to establish base line norms as per the Regulations 17.1 notified vide MYT Regulations, 2014 and subsequently submit the report to the Commission	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.
22	The Petitioner should complete the Study of Agriculture feeders segregated and not segregated in significant numbers to determine base line norms as per the Regulations 17.2, 17.3 notified vide MYT Regulations, 2014 and subsequently submit the report to the Commission	The Petitioner humbly submits that there are no agricultural feeders in Kesco supply area.
23	The Commission reiterates that the Licensees should conduct a detailed study to provide accurate and effective consumption norms as specified by the Commission in its earlier Orders and as per the provisions outlined in Uttar Pradesh Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014 in the time bound manner.	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.
24	The Petitioner should submit Incremental Power Purchase Cost as per the Regulations 20.1 notified vide MYT Regulations, 2014 and subsequently submit the report to the Commission	The Petitioner understands that it is required to submit the FPPCA petition up to 31.3.2017.
25	The Petitioner should submit Roadmap for Reduction of Cross Subsidy as per the Regulation 39 notified vide MYT Regulations, 2014	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.

Ref Sl No.	Description of Directive	Status of Compliance
26	The Petitioner should record and maintain Division wise, Circle-wise AT&C Losses and submit the quarterly report to the Commission.	The Petitioner had filed such report along with the data gaps reply pertaining to the ARR petition for FY 2015-16.
27	The Petitioner should submit month wise details of number of supply hours for rural and urban area for FY 2014-15.	The information pertaining to the supply hours has been submitted along with the instant petition.
28	Licensee should provide online facility for submission of application for new connection, name change, load enhancement and load reduction.	The observations of the Hon'ble Commission have been noted and action has been initiated on such matters. The Petitioner has a robust automated consumer interface which has been detailed in the instant petition in the foregoing sections.
29	Licensee should develop the mobile application for online payments of bills including other services for facilitation to consumers	The Petitioner has already introduced mobile applications for online payment of bills and other services. The Petitioner has a robust automated consumer interface which has been detailed in the instant petition in the foregoing sections.
30	The Petitioner should submit Standards of Performance parameters as per the tariff formats of Distribution Tariff Regulations, 2006.	The Petitioner would endeavor to meet the deadlines prescribed by the Hon'ble Commission.
31	The Commission directs the Petitioner to frame guidelines and procedures for identifying, physically verifying and writing off the bad debts and also to fix responsibility of its employees in this regard and submit the same to the Commission for its approval.	The Petitioner submits that it has framed a policy for identifying and writing off old arrears and a copy of the same was submitted to the Hon'ble Commission during the proceedings in respect of ARR and Tariff Petition for FY 2014-15. Appropriate directions have been issued to the field units to compile the sample cases based on such order issued by the licensee.
32	The Commission directs the Licensees that, from FY 2013-14 onwards it should clearly depict the total power purchase cost incurred at UPPCL level, total power purchase cost paid by the Licensees to UPPCL and power cost payable to UPPCL in its true-up petitions for future years.	The directions issued by the Hon'ble Commission have been complied in the instant petition.
33	The Commission directs the Licensee that Open Access shall be allowed as per the provisions outlined by the Commission in its Regulations and amendments from time to time.	Open access has already been operationalised in the Kesco supply area.

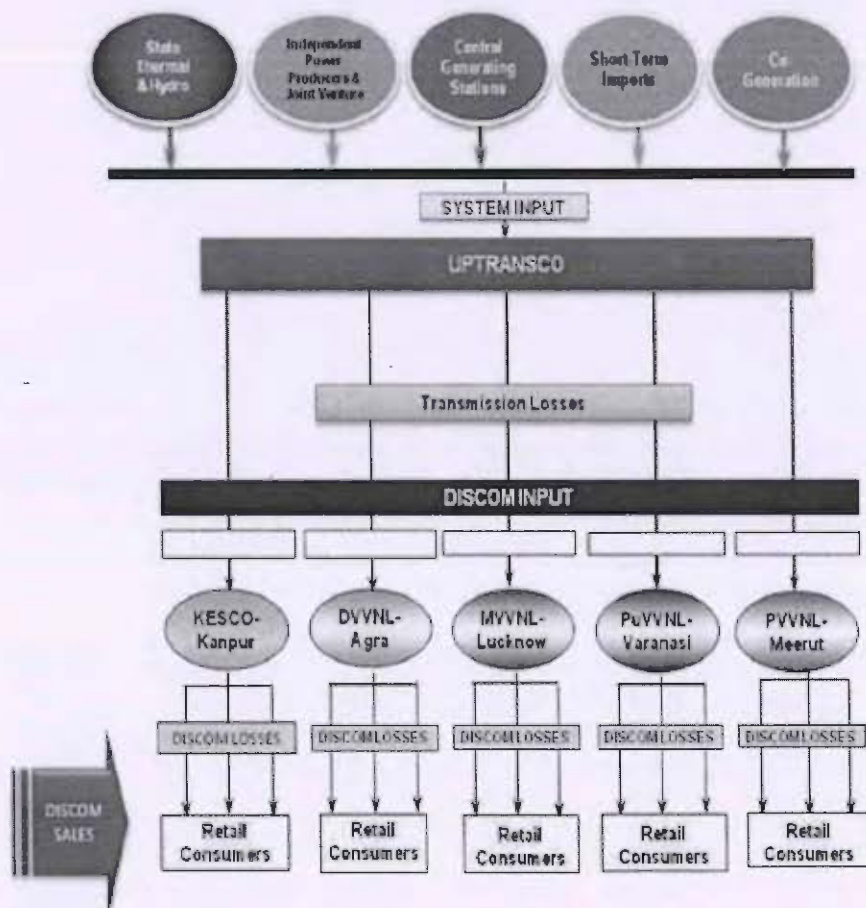
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7. LOAD FORECAST AND REVENUE ASSESSMENT

The Petitioner has projected the category-wise load growth based on the CAGR of the last eight years data and considering factors like available population data, expected conversion of unauthorized connections, connected load factor and specific growth factors. While projecting the data for past years, wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years. The forecast projects the specific consumption level (consumption per customer) appropriate for each customer category. This forecast is based on expected growth relationships to income and price, the effect of Demand Side Management and the impact of hours of service. The specific consumption level along with the number of customers in each category gives the sales figure for that particular sub-category. The final detailed calculations estimate the connected load by tariff category. The division level forecasts are consolidated and losses are added to the sales estimates to determine energy generation requirements.

The schematic diagram for Energy flow in state of UP is depicted in figure below:

Table 7-1: The schematic diagram for Energy flow in state of UP



7.1 METHODOLOGY NOTE FOR LOAD FORECAST

7.1.1 OVERVIEW

Sales and Load Forecasting involves firstly, building robust and accurate sales forecast and load forecast models that are able to predict energy sales within reasonable margins of error and secondly, application of the models so prepared to provide long term forecast of energy sales to various consumer sub categories (based on tariffs applied) and the total energy requirement to meet the demand..

7.1.2 METHODOLOGY

The following methodology was followed for Sales and Load Forecasting:

- a. Consumer category wise commercial data of each discom comprising Number of consumers/ Connected load (kW)/ Energy sales (billed energy): kWh, split between rural/urban consumers was tabulated for the years 2001-02 to 2006-07.
- b. Similar data for each consumer sub-category was tabulated for the years 2007-08 to 2014-15.
- c. 3 years' (2012-13 to 2014-15) compounded annual growth rate (CAGR) was determined for the following parameters consumer sub-category wise:
 - Number of consumers
 - Connected load: kW
 - Energy sales (billed energy): kWh
- d. CAGR for each of three major commercial parameters for 3/5/7/10 years was determined consumer category-wise.
- e. Running hour factor: Load shedding affects different consumer categories differently. Its effect was taken into account through a factor of present running hour supply and projected hour supply.

However, no adjustment on account of load shedding was made in case of the following:

- a) Following consumer categories:
 - Industrial
 - Agricultural (assuming that the water output of agricultural pump sets in the limited hours of supply is enough for meeting the irrigation requirements)
 - Railway traction

The Energy Billed was calculated by applying the factor to the remaining consumer categories in all areas. This was done step-wise as follows:

- b) Projecting the running hours supply;

- c) Obtaining the factor of running hours supply between present supply hours and projected hours supply;
- d) Sub-category Energy billed in % tabulated by way of Mahanagar, Commissioner, Districts, Bundelkhand and Rural Area according to the prevailing classification of the Areas; and
- e) As per the factors given below, the energy billed was projected.

Table 7-2: Projected Hours of Supply

Projected Approx. Running Hours			
Description	Base Year (2014-15)	2015-16	2016-17*
Mahanagar – M	21:59	22:44	24:00
District – D	18:11	18:38	22:00
Commissionary - C	20:54	21:26	24:00
Rural – R	11:15	10:57	16:00
Bundelkhand – B	17:21	17:41	22:00
Projected Running Hours Factor			
Mahanagar – M	1.00	1.03	1.05
District – D	1.00	1.02	1.21
Commissionary - C	1.00	1.03	1.05
Rural – R	1.00	0.97	1.24
Bundelkhand – B	1.00	1.02	1.02

*Hours of supply would be increased from October 2016 in view of the increased generation capacities

- f. Demand Side Management - Category wise energy Billed was calculated by applying the DSM factor.
- g. Following three ratios were determined for each set of commercial data of a given consumer category/ sub-category for each year:
 - a) Energy sales per consumer
 - b) Connected load per consumer
 - c) Energy sales/Connected load
- h. Sales Forecasting: LV Consumers – Sub-category-wise
 - a) Number of consumers:

Adopted appropriate value of CAGR in the following manner:

 - Normally 3 years' CAGR of number of consumers (sub-category wise) was adopted

- Wherever calculated value of 3 years' CAGR of number of consumers seemed unreasonably high or low, the most reasonable calculated value between 5/7/10 years' CAGR was adopted. The adopted value of CAGR was applied across all sub-categories within a given consumer category.
- Applied the CAGR so adopted to determine forecasted values of number of consumers, taking 2014-15 as the base year.

b) Connected load:

Multiplied number of consumers by the highest ratio of connected load per consumer calculated for the last three years to determine consumer sub-category wise connected load forecasts corresponding to forecasted values of number of consumers.

c) Energy Sales:

i. LMV 1 & LMV 10 Consumer categories:

Forecasted value of energy sales for each consumer sub-category was determined by multiplying the number of consumers by the highest value of energy sales per consumer for the last three years. Wherever the highest value of energy sales per consumer was found to be unreasonably high, the second highest value of the above ratio was adopted as the multiplier for determining energy sales corresponding to the forecasted value of number of consumers.

ii. LMV Consumer categories (metered) other than LMV1 & LMV10 consumer categories:

Adopted the highest value of energy sales per kW connected load for a given consumer sub-category for the last three years as the multiplier to obtain forecasted value of energy sales corresponding to the forecasted value of connected load.

iii. LMV: Unmetered consumers (except rural state tube wells):

Forecasted value of energy sales for a given consumer sub-category was obtained by multiplying the forecasted value of connected load by the standard value of energy sales per kW connected load laid down in the norms.

iv. Rural state tube wells:

Forecasted value of energy sales was obtained by multiplying the forecasted value of number of consumers by the standard value of energy sales per consumer laid down in the norms as below:

Table 7-3: Consumption Determinant

Sr.No	Category of Un-Metered Consumer	Units	Consumption of Energy Per Month
1	Private Tube Well	KWh/KW	137.49
2	Domestic Rural Consumers	KWh/KW	108

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Sr.No	Category of Un-Metered Consumer	Units	Consumption of Energy Per Month
3	Rural Commercial Consumers	KWh/KW	108
4	Rural State Tube Well	KWh/Consumer or Pump	5343.53
5 -A	Street Light - Rural Area	KWh/KW	300
5 -B	Street Light - Urban Area	KWh/KW	360

i. Sales Forecasting: HV Consumers – Sub-category-wise

a) Connected Load:

Forecasted value of connected load for a given sub-category for a given year was determined by applying the 3 years' CAGR of connected load calculated for the particular consumer sub-category, taking 2014-15 as the base year. Wherever the 3 years' CAGR appeared unreasonably high or low, the figure from amongst CAGR of connected load for a given consumer category calculated for 5/7/10 years that seemed most reasonable, was adopted as the CAGR to be used for forecasting. This value of CAGR was applied to all sub-categories comprising a given consumer category.

b) Number of consumers:

Forecasted number of consumers corresponding to the forecasted value of connected load for a consumer sub-category in a given year was determined by dividing connected load by the value of connected load per consumer calculated of the preceding year.

c) Energy sales:

- Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of connected load by the highest ratio of energy sales per kW connected load of the last three years.
- Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of sales MU by the running hour factors.
- Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of sales MU by the DMS factors.

7.1.3 CONSUMER SUB-CATEGORY WISE PROJECTIONS

Projections for Nos of Consumer sub-category wise for the two years were provided for each discom.

7.1.4 CONNECTED LOAD SUB-CATEGORY WISE PROJECTIONS

Projections for Connected Load sub-category wise for the two years were provided for each discom.

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7.1.5 SALES SUB-CATEGORY WISE PROJECTIONS

Projections for Sales sub-category wise for the two years were provided for each discom.

7.1.6 PROJECTIONS FOR INPUT ENERGY

Following assumptions, based on experience, were made with regard to losses:

a. % Distribution Losses:

Approximate distribution loss figures in % for two years were assumed as given in the following table:

Table 7-4: Distribution Losses Trajectory

Discom	Base Year (2014-15)	2015-16	2016-17
PaVVNL (Retail)	19.66%	19.52%	18.00%
PuVVNL	23.88%	20.93%	19.25%
MVVNL	22.88%	21.03%	19.00%
DVVNL (Retail)	29.49%	29.00%	26.00%
KESCO	26.04%	23.50%	22.00%

b. Transmission Losses:

Intra-state and inter-state transmission losses, to be added to the power delivered at the discoms at their input points to arrive at the energy required at the power plant bus bars, were taken as 5.26%.

c. Allocation of Additional Energy:

The difference of Energy Requirement and available at discom level was allocated to all categories except HT, Agriculture and Railway on the basis of existing share in sales.

7.1.7 INPUT ENERGY REQUIREMENT

Input energy requirement was determined from Energy Billed using the following relationship:

$$\text{Input Energy} = \text{Energy Billed} \div (1 - \% \text{ Technical \& Distribution Loss})$$

7.1.8 SALES FORECASTS FOR 2015-16 & 2016-17

The billed energy was required to be worked out on the basis of the availability of energy for the current year and the next year, which are as follows:

- Year 2015-16: 1,04,433 MU
- Year 2016-17: 1,19,020 MU

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Table 7-5: Energy Balance

Energy Balance	FY 2014-15 (Base Year)	FY 2015-16	FY 2016-17
Purchases Required & Billed Energy (MU)			
Input Energy Requirement	87,736	1,10,231	1,25,627
Transmission losses%	6.59%	5.26%	5.26%
Input Energy Requirement At DisCom Level	81,953	1,04,433	1,19,020
Meerut	25,946	29,913	34,186
Agra	19,138	24,041	27,773
Lucknow	15,126	19,007	21,525
Varanasi	18,252	27,853	31,333
Bulk	3,491	3,620	4,203
Consumer Sales (MU)	62,480	80,945	94,599
Meerut	20,845.36	24,074	28,033
Agra	13,494.13	17,069	20,552
Lucknow	11,665.40	15,010	17,435
Varanasi	13,893.33	22,023	25,301
Bulk	2,581.75	2,769	3,278
Distribution Losses (% of Energy Received)	23.76%	22.49%	20.52%
Meerut	19.66%	19.52%	18.00%
Agra	29.49%	29.00%	26.00%
Lucknow	22.88%	21.03%	19.00%
Varanasi	23.88%	20.93%	19.25%
Bulk	26.04%	23.50%	22.00%

7.2 SALES FORECAST

The year 2015-16 is expected to see a substantial jump in the total availability of energy at the source power plant bus bars at around 1,10,231 MU when compared to around 87,736 MU in 2014-15 for Uttar Pradesh as a whole. The demand of most consumer categories and discoms 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.

Total availability of energy for 2016-17 is around 1,25,627 MU. The projected sales will be impacted by normal load growth and increased hours of supply.

7.2.1 LMV CONSUMERS – SUB-CATEGORY-WISE

Adopted appropriate value of CAGR and 3/5/7/10 year's CAGR are as below:

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Table 7-6: LMV Consumers Growth Rate

SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
LMV--1		Rural					
		Urban					
	(A)	Consumer getting supply as per "Rural Schedule"					
	(i)	Un-metered	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Metered	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Supply at Single Point for Bulk Load	0.00%	0.00%	0.00%	0.00%	0%
	(C1)	Other Metered Domestic Consumers	-1.84%	-0.83%	0.00%	0.00%	8%
	(C2)	Life Line Consumers/BPL	-100.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	-7%	-1%	1%	2%	
LMV--2		Rural					
		Urban					
	(A)	Consumer getting supply as per "Rural Schedule"					
	(i)	Un-metered	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Metered	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-100.00%	-100.00%	0.00%	0.00%	1%
	(C)	Other Metered Non-Domestic Supply	-14.55%	-4.36%	0.00%	0.00%	-15%
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	-15%	-6%	-4%	-1%	
LMV--3	A	Rural					
		Urban					
	(A)	Un-metered Supply					
	(i)	Gram Panchyat	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Nagar Palika & Nagar Panchyat	0.00%	0.00%	0.00%	0.00%	0%
	(iii)	Nagar Nigam	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Metered Supply					
	(i)	Gram Panchyat	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Nagar Palika & Nagar Panchyat	0.00%	0.00%	0.00%	0.00%	1%
	(iii)	Nagar Nigam	0.00%	0.00%	0.00%	0.00%	1%
SUB TOTAL		PUBLIC LAMPS (LMV-3)	0.00%	0.00%	-0.90%	-6.51%	
LMV--4	A	Rural					
		Urban					
	B	Rural					

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SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
		Urban					
	(A)	Public Institution(4 A)	-9.43%	-4.25%	0.00%	0.00%	5.00%
	(B)	Private Institution(4 B)	-2.88%	2.82%	0.00%	0.00%	6%
SUB TOTAL		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)	-8.52%	-3.32%	1.11%	1.25%	
LMV--5		Rural					
		Urban					
	(A)	Rural Schedule					
	(i)	Un metered Supply	0.00%	0.00%	0.00%	0.00%	0.00%
	(ii)	Metered Supply	0.00%	0.00%	0.00%	0.00%	0.00%
	(B)	Urban Schedule					
	(i)	Metered Supply	0.00%	0.00%	0.00%	0.00%	0.00%
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	0.00%	0.00%	0.00%	0.00%	
LMV--6		Rural					
		Urban					
	(A)	Small & Medium Power (Power Loom)					
	(i)	Rural Schedule	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Urban Schedule	0.00%	-100.00%	0.00%	0.00%	1%
	(B)	Small & Medium Power					
	(i)	Rural Schedule	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Urban Schedule	-1.47%	4.45%	0.00%	0.00%	5%
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	-1.47%	4.40%	2.64%	2.76%	
LMV--7		Rural					
		Urban					
	(A)	Rural Schedule					
	(i)	Jal Nigam	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Jal Sansthan	0.00%	0.00%	0.00%	0.00%	0%
	(iii)	Others (Water Works)	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Urban Schedule					
	(i)	Jal Nigam	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Jal Sansthan	-1.99%	5.00%	0.00%	0.00%	1%
	(iii)	Others (Water Works)	0.00%	-100.00%	0.00%	0.00%	0%
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	-1.99%	0.12%	5.65%	17.11%	
LMV--8		Rural					
		Urban					
	(A)	Metered Supply	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Un-metered Supply					
	(i)	STW, Panchayat Raj, WB,	0.00%	0.00%	0.00%	0.00%	0%

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SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
		I.Duch, P.Canals, LI upto 100 BHP					
	(ii)	Laghu Dal Nahar above 100 BHP	0.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL	STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		0.00%	0.00%	0.00%	0.00%	
LMV--9		Rural					
		Urban					
	(A)	Metered Supply					
	(i)	Individual Residential Consumers	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Others	0.00%	-100.00%	0.00%	0.00%	0%
	(B)	Un-metered Supply					
	(i)	Ceremonies	0.00%	0.00%	0.00%	0.00%	0%
	(ii)	Temporary Shops	0.00%	-100.00%	0.00%	0.00%	0%
SUB TOTAL	TEMPORARY SUPPLY (LMV-9)		0.00%	-100.00%	0.00%	0.00%	
LMV--10	(A)	Serving					
	(i)	Class IV Employees	-100.00%	-100.00%	0.00%	0.00%	0%
	(ii)	Class III Employees	354.80%	113.26%	0.00%	0.00%	0%
	(iii)	Junior Engineers & Equivalent	-100.00%	-100.00%	0.00%	0.00%	0%
	(iv)	Assistant Engineers & Equivalent	-100.00%	-100.00%	0.00%	0.00%	0%
	(v)	Executive Engineers & Equivalent	-100.00%	-100.00%	0.00%	0.00%	0%
	(vi)	Deputy General Manager & Equivalent	-100.00%	-100.00%	0.00%	0.00%	0%
	(vii)	CGM/GM & Equivalent posts and above	-100.00%	-100.00%	0.00%	0.00%	0%
	(B)	Total Pensioner & Family Pensioner	235.35%	83.13%	0.00%	0.00%	0%
SUB TOTAL	DEPARTMENTAL EMPLOYEES (LMV-10)		190.00%	70.29%	0.00%	0.00%	190%

7.2.2 HV CONSUMERS – SUB-CATEGORY-WISE

Adopted appropriate value of CAGR for Load Forecast and 3/5/7/10 year's CAGR are as below:

Table 7-7: HV Consumers Growth Rate

SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
HV--1		Rural					

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SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
		Urban					
	(A)	Urban Schedule					
		(i) For supply at 11kV	0.00%	0.00%	0.00%	0.00%	2%
		(ii) For supply above 11kV and upto & Including 66kV	0.00%	0.00%	0.00%	0.00%	1%
		(iii) For supply above 66kV and upto & Including 132kV	-100.00%	0.00%	0.00%	0.00%	1%
		(iv) For supply above 132kV	0.00%	0.00%	0.00%	0.00%	0%
	(B)	Rural Schedule					
		(i) For supply at 11kV	0.00%	0.00%	0.00%	0.00%	0%
		(ii) For supply above 11kV and upto & Including 66kV	0.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	10.25%	0.00%	0.00%	0.00%	10%
HV--2		Rural					
		Urban					
	(A)	Urban Schedule					
		(i) For supply at 11kV	0.00%				5%
		(ii) For supply above 11kV and upto & Including 66kV	0.00%				0%
		(iii) For supply above 66kV and upto & Including 132kV	-92.51%				2%
		(iv) For supply above 132kV	0.00%				0%
	(B)	Rural Schedule					
		(i) For supply at 11kV	0.00%				0%
		(ii) For supply above 11kV and upto & Including 66kV	0.00%				0%
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	2.13%	51.83%	1.18%	4.39%	2%
HV--3		Rural					
		Urban					
	(A)	For supply at the above 132kV	0.00%	0.00%	0.00%	0.00%	0%
	(B)	For supply below 132kV	0.00%	0.00%	0.00%	0.00%	0%
	(C)	For Metro Traction	0.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL		RAILWAY TRACTION (HV-3)	0.00%	0.00%	0.00%	0.00%	
HV--4		Rural					
		Urban					
	(A)	For supply at 11kV	0.00%				0%

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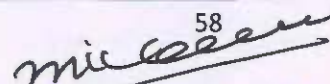
SUPPLY TYPE		CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assumed
	(B)	For supply above 11kV and upto 66kV	0.00%				0%
	(C)	For supply above 66kV and upto 132kV	0.00%				0%
SUB TOTAL		LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	0.00%	-100.00%	0.00%	0.00%	
EXTRA STATE		Rural					
		Urban					
	(A)	EXTRA STATE & OTHERS	0.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL		EXTRA STATE CONSUMERS	0.00%	0.00%	0.00%	0.00%	
BULK		Rural					
		Urban					
	(A)	NPCL	0.00%	0.00%	0.00%	0.00%	0%
	(B)	KESCO	0.00%	0.00%	0.00%	0.00%	0%
SUB TOTAL		BULK SUPPLY					
		GRAND TOTAL	-7.61%	-1.40%	0.49%	1.50%	-8%

7.2.3 LMV CONSUMER LOAD

Adopted appropriate value of per Consumer Load of Previous Year -3, Previous Year -2, Previous Year -1 and Base Year for LV Consumer sub category are as below:

Table 7-8: Growth in LMV Consumer Load

SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Assumed
LMV--1		Rural					
		Urban					
	(A)	Consumer getting supply as per "Rural Schedule"	-	-	-	-	-
		(i) Un-metered	-	-	-	-	-
		(ii) Metered	-	-	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-	-	-
	(C1)	Other Metered Domestic Consumers	2.221	2.232	2.359	2.388	2.388
	(C2)	Life Line Consumers/BPL	-	2.004	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	2.221	2.209	2.114	2.388	2.388
LMV--2		Rural					
		Urban					
	(A)	Consumer getting supply as per					

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SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Assumed
		"Rural Schedule"					
		(i) Un-metered	-	-	-	-	-
		(ii) Metered	-	-	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	2.400	2.436	-	-	2.436
	(C)	Other Metered Non-Domestic Supply	2.547	2.547	2.183	2.937	2.937
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	2.545	2.545	2.183	2.937	2.937
LMV--3							
	A	Rural					
		Urban					
	(A)	Un-metered Supply					
		(i) Gram Panchyat	-	-	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-	-	-
		(iii) Nagar Nigam	742.722	764.889	784.278	784.278	784.278
	(B)	Metered Supply					
		(i) Gram Panchyat	-	-	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-	-	-
		(iii) Nagar Nigam	-	-	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	742.722	764.889	784.278	784.278	784.278
LMV--4							
	A	Rural					
		Urban					
	B	Rural					
		Urban					
	(A)	Public Institution(4 A)	10.002	8.594	11.042	18.273	18.273
	(B)	Private Institution(4 B)	12.344	12.972	19.211	17.947	19.211
SUB TOTAL		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)	10.293	9.183	12.073	18.206	18.206
LMV--5							
		Rural					
		Urban					
	(A)	Rural Schedule					
		(i) Un metered Supply	-	-	-	-	-
		(ii) Metered Supply	-	-	-	-	-
	(B)	Urban Schedule					
		(i) Metered Supply	-	-	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-	-	-
LMV--6							
		Rural					
		Urban					
	(A)	Small & Medium Power (Power					

SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Assumed
		Loom)					
		(i) Rural Schedule	-	-	-	-	-
		(ii) Urban Schedule	7.091	-	-	16.208	16.208
	(B)	Small & Medium Power					
		(i) Rural Schedule	-	-	-	-	-
		(ii) Urban Schedule	14.760	14.032	17.466	12.123	12.123
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	14.749	14.032	12.916	12.636	14.749
LMV--7		Rural					
		Urban					
	(A)	Rural Schedule					
		(i) Jal Nigam	-	-	-	-	-
		(ii) Jal Sansthan	-	-	-	-	-
		(iii) Others (Water Works)	-	-	-	-	-
	(B)	Urban Schedule					
		(i) Jal Nigam	-	-	-	-	-
		(ii) Jal Sansthan	31.663	31.369	32.703	38.983	33.680
		(iii) Others (Water Works)	-	-	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	31.663	31.369	32.703	38.983	38.983
LMV--8		Rural					
		Urban					
	(A)	Metered Supply	-	-	-	-	-
	(B)	Un-metered Supply					
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-	-	-	-	-
		(ii) Laghu Dal Nahar above 100 BHP	-	-	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-	-	-
LMV--9		Rural					
		Urban					
	(A)	Metered Supply					
		(i) Individual Residential Consumers	-	-	-	-	-
		(ii) Others	-	-	-	-	-
	(B)	Un-metered Supply					
		(i) Ceremonies	-	-	-	-	-
		(ii) Temporary Shops	-	-	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)	-	-	-	-	-
LMV--10	(A)	Serving					

SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Assumed
		(i) Class IV Employees	2.000	2.000	2.000	-	2.000
		(ii) Class III Employees	3.105	3.105	55.547	3.000	55.547
		(iii) Junior Engineers & Equivalent	6.000	6.000	-	-	6.000
		(iv) Assistant Engineers & Equivalent	5.462	5.462	-	-	5.462
		(v) Executive Engineers & Equivalent	5.000	5.000	-	-	5.000
		(vi) Deputy General Manager & Equivalent	5.000	5.000	-	-	5.000
		(vii) CGM/GM & Equivalent posts and above	5.000	5.000	-	-	5.000
	(B)	Total Pensioner & Family Pensioner	3.840	3.840	18.598	3.000	18.598
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	3.217	3.217	17.427	3.000	17.427

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7.2.4 ENERGY SALES ASSUMPTION

Adopted Appropriate value of Per capita Consumption per Consumer, Per Capita Consumption per KW of previous Year-3, previous Year-2, Previous Year-1 and Base Year and Un-Metered Sales norms are as below:

Table 7-9: Energy Sales Assumption[illegible]

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			KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY		Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
		Urban													
	(A)	Un-metered Supply													
		(i) Gram Panchyat		-	-	-	-	-	-	-	-	-	-	3600	3,600
		(ii) Nagar Palika & Nagar Panchyat		-	-	-	-	-	-	-	-	-	-	4320	4,320
		(iii) Nagar Nigam		26,47,444	27,22,222	27,31,889	28,23,333	28,23,333	3,565	3,559	3,483	3,600	3,600	4320	4,320
	(B)	Metered Supply													
		(i) Gram Panchyat		-	-	-	-	-	-	-	-	-	-		-
		(ii) Nagar Palika & Nagar Panchyat		-	-	-	-	-	-	-	-	-	-		-
		(iii) Nagar Nigam		-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		PUBLIC LAMPS (LMV-3)		26,64,556	27,22,222	27,53,556	28,23,333		3,588	3,559	3,511	3,600			
LMV--4	A	Rural													
		Urban													
	B	Rural													
		Urban													
	(A)	Public Institution(4 A)		21,797	41,896	40,712	56,598	56,598	2,179	4,875	3,687	3,097	4,875		3,866
	(B)	Private Institution(4 B)		35,734	35,461	31,704	32,993	35,734	2,895	2,734	1,650	1,838	2,895		2,346
SUB TOTAL		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)		23,531	41,031	39,575	51,788		2,286	4,468	3,278	2,845			
LMV--5		Rural													
		Urban													
	(A)	Rural Schedule													
		(i) Un metered Supply		-	-	-	-	-	-	-	-	-	-	1649.88	1,650
		(ii) Metered Supply		-	-	-	-	-	-	-	-	-	-		-
	(B)	Urban Schedule													
		(i) Metered Supply		-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)		-	-	-	-		-	-	-	-			

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		KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
LMV--6		Rural												
		Urban												
	(A)	Small & Medium Power (Power Loom)												
		(i) Rural Schedule	-	-	-	-	-	-	-	-	-	-		-
		(ii) Urban Schedule	4,818	-	-	3,260	4,818	679	-	141	201	679		-
	(B)	Small & Medium Power												
		(i) Rural Schedule	-	-	6,783	-	6,783	-	-	-	-	-		-
		(ii) Urban Schedule	31,161	28,438	39,784	32,147	39,784	2,111	2,027	2,278	2,652	2,652		2,652
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	31,123	28,438	27,545	28,576		2,110	2,027	2,133	2,261			
LMV--7		Rural												
		Urban												
	(A)	Rural Schedule												
		(i) Jal Nigam	-	-	-	-	-	-	-	-	-	-		-
		(ii) Jal Sansthan	-	-	-	-	-	-	-	-	-	-		-
		(iii) Others (Water Works)	-	-	-	-	-	-	-	-	-	-		-
	(B)	Urban Schedule												
		(i) Jal Nigam	-	-	-	-	-	-	-	-	-	-		-
		(ii) Jal Sansthan	79,500	77,287	77,502	90,504	90,504	2,511	2,464	2,370	2,322	2,511		2,359
		(iii) Others (Water Works)	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	79,997	77,287	77,502	90,504		2,527	2,464	2,370	2,322			
LMV--8		Rural												
		Urban												
	(A)	Metered Supply	-	-	-	-	-	-	-	-	-	-		-
	(B)	Un-metered Supply												
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-	-	-	-	-	-	-	-	-	-	64122.36	64,122

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			KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY		Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
		(ii)	Laghu Dal Nahar above 100 BHP	-	-	-	-	-	-	-	-	-	-	64122.36	64,122
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		-	-	-	-	-	-	-	-	-	-		
LMV--9		Rural													
		Urban													
	(A)	Metered Supply													
		(i)	Individual Residential Consumers	-	-	-	-	-	-	-	-	-	-		-
		(ii)	Others	-	-	-	-	-	-	-	-	-	-		-
	(B)	Un-metered Supply													
		(i)	Ceremonies	-	-	-	-	-	-	-	-	-	-		-
		(ii)	Temporary Shops	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)		-	-	-	-	-	-	-	-	-	-		
LMV--10	(A)	Serving													
		(i)	Class IV Employees	1,925	1,925	1,925	-	1,925	963	963	-	-	963		1,925
		(ii)	Class III Employees	2,179	2,211	2,179	2,159	2,211	702	712	39	720	720		2,211
		(iii)	Junior Engineers & Equivalent	3,600	4,000	3,600	-	4,000	600	667	-	-	667		4,000
		(iv)	Assistant Engineers & Equivalent	5,231	5,385	5,231	-	5,385	958	986	-	-	986		5,385
		(v)	Executive Engineers & Equivalent	5,533	5,333	5,533	-	5,533	1,107	1,067	-	-	1,107		5,533
		(vi)	Deputy General Manager & Equivalent	5,500	5,000	5,500	-	5,500	1,100	1,000	-	-	1,100		5,500
		(vii)	CGM/GM & Equivalent	6,000	10,000	6,000	-	10,000	1,200	2,000	-	-	2,000		10,000

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		KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
		posts and above												
	(B)	Total Pensioner & Family Pensioner	2,703	2,695	2,703	8,187	8,187	704	702	145	2,729	2,729		8,187
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	2,528	2,535	2,528	5,018		786	788	145	1,673			
HV--1		Rural												
		Urban												
	(A)	Urban Schedule												
	(i)	For supply at 11kV	-	-	6,41,000	5,47,367	6,41,000	-	-	1,708	1,829	1,829		1,829
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	62,29,429	58,83,333	62,29,429	-	-	2,425	2,944	2,944		2,944
	(iii)	For supply above 66kV and upto & Including 132kV	7,97,927	9,74,138	-	-	9,74,138	2,093	2,116	-	-	2,116		2,116
	(iv)	For supply above 132kV	-	-	-	-	-	-	-	-	-	-		-
	(B)	Rural Schedule												
	(i)	For supply at 11kV	-	-	-	-	-	-	-	-	-	-		-
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	9,52,364	9,86,810	9,38,451	8,34,934		2,498	2,143	1,913	2,137			
HV--2		Rural												
		Urban												
	(A)	Urban Schedule												
	(i)	For supply at 11kV	-	-	5,02,294	3,79,428	5,02,294	-	-	2,034	1,619	2,034		2,193
	(ii)	For supply above 11kV	-	-	83,28,250	1,56,68,000	1,56,68,000	-	-	997	1,876	1,876		2,330

miscellaneous
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		KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
		and upto & Including 66kV												
		(iii) For supply above 66kV and upto & Including 132kV	6,96,944	7,27,103	5,32,89,500	12,76,98,000	12,76,98,000	2,069	2,445	2,479	5,939	5,939		1,600
		(iv) For supply above 132kV	-	-	-	-	-	-	-	-	-	-		-
	(B)	Rural Schedule												
		(i) For supply at 11kV	-	-	-	-	-	-	-	-	-	-		-
		(ii) For supply above 11kV and upto & Including 66kV	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	7,03,906	7,27,103	7,54,372	9,31,510		2,089	2,445	1,960	2,549			
HV-3		Rural												
		Urban												
	(A)	For supply at the above 132kV	-	-	-	-	-	-	-	-	-	-		-
	(B)	For supply below 132kV	-	-	-	-	-	-	-	-	-	-		-
	(C)	For Metro Traction	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-	-		-	-	-	-			
HV-4		Rural												
		Urban												
	(A)	For supply at 11kV	-	-	-	-	-	-	-	-	-	-		-
	(B)	For supply above 11kV and upto 66kV	-	-	-	-	-	-	-	-	-	-		-
	(C)	For supply above 66kV and upto 132kV	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	-	-	-	-		-	-	-	-			
EXTRA STATE		Rural												
		Urban												

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		KESCO Discom	Per Capita Consumption /Consumer					Per Capita Consumption on Load Basis						
SUPPLY TYPE		CATEGORY	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Previous Year-3	Previous Year-2	Previous Year-1	Current Year	Max between last 4 years	Unmetered As per Norms	Assumed
	(A)	EXTRA STATE & OTHERS	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-	-		-	-	-	-			
BULK		Rural												
		Urban												
	(A)	NPCL	-	-	-	-	-	-	-	-	-	-		-
	(B)	KESCO	-	-	-	-	-	-	-	-	-	-		-
SUB TOTAL		BULK SUPPLY	-	-	-	-	-	-	-	-	-	-		-
		GRAND TOTAL	3,939	4,050	3,960	4,908		1,347	1,407	1,399	1,528			

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7.2.5 CONSUMER SUB-CATEGORY WISE PROJECTIONS

Projections for Nos of Consumer sub-category wise for the two years have been made as given below:

Table 7-10: Sub- category wise projections of Number of consumer

SUPPLY TYPE	CAT	CATEGORY	2014-15	2015-16	2016-17
LMV--1		Rural			
		Urban			
	(A)	Consumer getting supply as per "Rural Schedule"			
		(i) Un-metered	-	-	-
		(ii) Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-
	(C1)	Other Metered Domestic Consumers	4,38,484	4,73,563	5,11,448
	(C2)	Life Line Consumers/BPL	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	4,38,484	4,73,563	5,11,448
LMV--2		Rural			
		Urban			
	(A)	Consumer getting supply as per "Rural Schedule"			
		(i) Un-metered	-	-	-
		(ii) Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-	-	-
	(C)	Other Metered Non-Domestic Supply	73,262	62,600	53,489
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	73,262	62,600	53,489
LMV--3	A	Rural			
		Urban			
	(A)	Un-metered Supply			
		(i) Gram Panchyat	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-
		(iii) Nagar Nigam	18	18	18
	(B)	Metered Supply			
		(i) Gram Panchyat	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-
		(iii) Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	18	18	18
LMV--4	A	Rural			
		Urban			
	B	Rural			
		Urban			
	(A)	Public Institution(4 A)	594	624	655
	(B)	Private Institution(4 B)	152	161	171
SUB		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE	746	785	826

SUPPLY TYPE	CAT	CATEGORY	2014-15	2015-16	2016-17
TOTAL		INSTITUTION (LMV-4)			
LMV--5		Rural			
		Urban			
	(A)	Rural Schedule			
		(i) Un metered Supply	-	-	-
		(ii) Metered Supply	-	-	-
	(B)	Urban Schedule			
		(i) Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-
LMV--6		Rural			
		Urban			
	(A)	Small & Medium Power (Power Loom)			
		(i) Rural Schedule	-	-	-
		(ii) Urban Schedule	1,121	1,132	1,144
	(B)	Small & Medium Power			
		(i) Rural Schedule	-	-	-
		(ii) Urban Schedule	7,793	8,183	8,592
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	8,914	9,315	9,735
LMV--7		Rural			
		Urban			
	(A)	Rural Schedule			
		(i) Jal Nigam	-	-	-
		(ii) Jal Sansthan	-	-	-
		(iii) Others (Water Works)	-	-	-
	(B)	Urban Schedule	-	-	-
		(i) Jal Nigam	-	-	-
		(ii) Jal Sansthan	526	531	537
		(iii) Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	526	531	537
LMV--8		Rural			
		Urban			
	(A)	Metered Supply	-	-	-
	(B)	Un-metered Supply			
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-	-	-
		(ii) Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-
LMV--9		Rural			
		Urban			
	(A)	Metered Supply			
		(i) Individual Residential Consumers	-	-	-
		(ii) Others	-	-	-
	(B)	Un-metered Supply			
		(i) Ceremonies	-	-	-

SUPPLY TYPE	CAT	CATEGORY		2014-15	2015-16	2016-17
		(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)		-	-	-
LMV--10	(A)	Serving				
		(i)	Class IV Employees	-	-	-
		(ii)	Class III Employees	1,759	1,759	1,759
		(iii)	Junior Engineers & Equivalent	-	-	-
		(iv)	Assistant Engineers & Equivalent	-	-	-
		(v)	Executive Engineers & Equivalent	-	-	-
		(vi)	Deputy General Manager & Equivalent	-	-	-
		(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner		1,587	1,587	1,587
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)		3,346	3,346	3,346
HV--1		Rural				
		Urban				
	(A)	Urban Schedule				
		(i)	For supply at 11kV	158	161	164
		(ii)	For supply above 11kV and upto & Including 66kV	9	9	9
		(iii)	For supply above 66kV and upto & Including 132kV	-	-	-
		(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)		167	170	174
HV--2		Rural				
		Urban				
	(A)	Urban Schedule				
		(i)	For supply at 11kV	566	577	589
		(ii)	For supply above 11kV and upto & Including 66kV	4	4	4
		(iii)	For supply above 66kV and upto & Including 132kV	2	2	2
		(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)		572	583	595
HV--3		Rural		-	-	-
		Urban		-	-	-

SUPPLY TYPE	CAT	CATEGORY	2014-15	2015-16	2016-17
	(A)	For supply at the above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Metro Traction	-	-	-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-
HV--4		Rural			
		Urban			
	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE		Rural			
		Urban			
	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK		Rural			
		Urban			
	(A)	NPCL	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
		GRAND TOTAL	5,26,035	5,50,911	5,80,167

7.2.6 CONNECTED LOAD SUB-CATEGORY WISE PROJECTIONS

Projections for Connected Load sub-category wise for the two years have been made as given below:

Table 7-11: Sub category wise projections of connected load

SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17
LMV--1		Rural			
		Urban			
	(A)	Consumer getting supply as per "Rural Schedule"			
		(i) Un-metered	-	-	-
		(ii) Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-
	(C1)	Other Metered Domestic Consumers	10,29,413	11,11,766	12,00,707
	(C2)	Life Line Consumers/BPL	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	10,29,413	11,11,766	12,00,707
LMV--2		Rural			

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SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17
		Urban			
	(A)	Consumer getting supply as per "Rural Schedule"			
		(i) Un-metered	-	-	-
		(ii) Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-	-	-
	(C)	Other Metered Non-Domestic Supply	2,15,187	1,83,870	1,57,111
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	2,15,187	1,83,870	1,57,111
LMV--3	A	Rural			
		Urban			
	(A)	Un-metered Supply			
		(i) Gram Panchyat	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-
		(iii) Nagar Nigam	14,117	14,117	14,117
	(B)	Metered Supply			
		(i) Gram Panchyat	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-
		(iii) Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	14,117	14,117	14,117
LMV--4	A	Rural			
		Urban			
	B	Rural			
		Urban			
	(A)	Public Institution(4 A)	10,854	11,397	11,967
	(B)	Private Institution(4 B)	2,728	3,095	3,281
SUB TOTAL		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)	13,582	14,492	15,248
LMV--5		Rural			
		Urban			
	(A)	Rural Schedule			
		(i) Un metered Supply	-	-	-
		(ii) Metered Supply	-	-	-
	(B)	Urban Schedule			
		(i) Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-
LMV--6		Rural			
		Urban			
	(A)	Small & Medium Power (Power Loom)			
		(i) Rural Schedule	-	-	-
		(ii) Urban Schedule	18,169	18,351	18,534
	(B)	Small & Medium Power			
		(i) Rural Schedule	-	-	-
		(ii) Urban Schedule	94,471	99,195	1,04,154
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	1,12,640	1,17,545	1,22,688
LMV--7		Rural			
		Urban			

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SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17
	(A)	Rural Schedule			
		(i) Jal Nigam	-	-	-
		(ii) Jal Sansthan	-	-	-
		(iii) Others (Water Works)	-	-	-
	(B)	Urban Schedule	-	-	-
		(i) Jal Nigam	-	-	-
		(ii) Jal Sansthan	20,505	17,893	18,072
		(iii) Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	20,505	17,893	18,072
LMV--8		Rural			
		Urban			
	(A)	Metered Supply	-	-	-
	(B)	Un-metered Supply			
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-	-	-
		(ii) Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-
LMV--9		Rural			
		Urban			
	(A)	Metered Supply			
		(i) Individual Residential Consumers	-	-	-
		(ii) Others	-	-	-
	(B)	Un-metered Supply			
		(i) Ceremonies	-	-	-
		(ii) Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)	-	-	-
LMV--10	(A)	Serving			
		(i) Class IV Employees	-	-	-
		(ii) Class III Employees	5,277	97,708	97,708
		(iii) Junior Engineers & Equivalent	-	-	-
		(iv) Assistant Engineers & Equivalent	-	-	-
		(v) Executive Engineers & Equivalent	-	-	-
		(vi) Deputy General Manager & Equivalent	-	-	-
		(vii) CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner	4,761	29,514	29,514
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	10,038	1,27,222	1,27,222
HV--1		Rural			
		Urban			
	(A)	Urban Schedule			
		(i) For supply at 11kV	47,278	48,224	49,188
		(ii) For supply above 11kV and upto & Including 66kV	17,983	18,163	18,344
		(iii) For supply above 66kV and upto & Including 132kV	-	-	-
		(iv) For supply above 132kV	-	-	-

SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17
	(B)	Rural Schedule			
		(i) For supply at 11kV	-	-	-
		(ii) For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	65,261	66,386	67,532
HV--2		Rural			
		Urban			
	(A)	Urban Schedule			
		(i) For supply at 11kV	1,32,612	1,35,264	1,37,970
		(ii) For supply above 11kV and upto & Including 66kV	33,400	33,734	34,071
		(iii) For supply above 66kV and upto & Including 132kV	43,000	43,430	43,864
		(iv) For supply above 132kV	-	-	-
	(B)	Rural Schedule			
		(i) For supply at 11kV	-	-	-
		(ii) For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	2,09,012	2,12,428	2,15,905
HV--3		Rural	-	-	-
		Urban	-	-	-
	(A)	For supply at the above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Metro Traction	-	-	-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-
HV--4		Rural			
		Urban			
	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE		Rural			
		Urban			
	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK		Rural			
		Urban			
	(A)	NPCL	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
		GRAND TOTAL	16,89,755	18,65,720	19,38,603

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7.2.7 SALES SUB-CATEGORY WISE PROJECTIONS

Projections for Sales sub-category wise for the two years have been made as given below:

Table 7-12: Sub category wise projections of energy sales

KESCO Discom			Projected Sales -KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
LMV--1		Rural									
		Urban									
	(A)	Consumer getting supply as per "Rural Schedule"									
		(i) Un-metered	-	-	-	-	-	-	-	-	-
		(ii) Metered	-	-	-	-	-	-	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-	-	-	-	-	-	-
	(C1)	Other Metered Domestic Consumers	1,250	1,484	1,602	1,250	1,520	1,939	1,250	1,520	1,939
	(C2)	Life Line Consumers/BPL	-	-	-	-	-	-	-	-	-
SUB TOTAL	DOMESTIC LIGHT FAN & POWER (LMV-1)		1,250	1,484	1,602	1,250	1,520	1,939	1,250	1,520	1,939
LMV--2		Rural									
		Urban									
	(A)	Consumer getting supply as per "Rural Schedule"									
		(i) Un-metered	-	-	-	-	-	-	-	-	-
		(ii) Metered	-	-	-	-	-	-	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	1	-	-	1	-	-	1	-	-
	(C)	Other Metered Non-Domestic Supply	251	214	183	251	220	222	251	220	222
	SUB TOTAL	NON DOMESTIC LIGHT FAN & POWER (LMV-2)	251	214	183	251	220	222	251	220	222
LMV--3	A	Rural									
		Urban									

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KESCO Discom			Projected Sales -KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
	(A)	Un-metered Supply									
		(i) Gram Panchyat	-	-	-	-	-	-	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-	-	-	-	-	-	-
		(iii) Nagar Nigam	51	61	61	51	61	61	51	61	61
	(B)	Metered Supply									
		(i) Gram Panchyat	-	-	-	-	-	-	-	-	-
		(ii) Nagar Palika & Nagar Panchyat	-	-	-	-	-	-	-	-	-
		(iii) Nagar Nigam	-	-	-	-	-	-	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	51	61	61	51	61	61	51	61	61
LMV--4	A	Rural									
		Urban									
	B	Rural									
		Urban									
	(A)	Public Institution(4 A)	34	44	46	34	45	56	34	45	56
	(B)	Private Institution(4 B)	5	7	8	5	7	9	5	7	9
SUB TOTAL		LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)	39	51	54	39	53	65	39	53	65
LMV--5		Rural									
		Urban									
	(A)	Rural Schedule									
		(i) Un metered Supply	-	-	-	-	-	-	-	-	-
		(ii) Metered Supply	-	-	-	-	-	-	-	-	-
	(B)	Urban Schedule									
		(i) Metered Supply	-	-	-	-	-	-	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-	-	-	-	-	-	-
LMV--6		Rural									
		Urban									
	(A)	Small & Medium Power (Power									

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KESCO Discom			Projected Sales - KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
		Loom)									
		(i) Rural Schedule	-	-	-	-	-	-	-	-	-
		(ii) Urban Schedule	3.66	-	-	3.66	-	-	4	-	-
	(B)	Small & Medium Power									
		(i) Rural Schedule	1	-	-	1	-	-	1	-	-
		(ii) Urban Schedule	251	263	276	251	270	334	251	270	334
SUB TOTAL	SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)		255	263	276	255	270	334	255	270	334
LMV--7		Rural									
		Urban									
	(A)	Rural Schedule									
		(i) Jal Nigam	-	-	-	-	-	-	-	-	-
		(ii) Jal Sansthan	-	-	-	-	-	-	-	-	-
		(iii) Others (Water Works)	-	-	-	-	-	-	-	-	-
	(B)	Urban Schedule									
		(i) Jal Nigam	-	-	-	-	-	-	-	-	-
		(ii) Jal Sansthan	48	42	43	48	42	43	48	42	43
		(iii) Others (Water Works)	-	-	-	-	-	-	-	-	-
SUB TOTAL	PUBLIC WATER WORKS(LMV-7)		48	42	43	48	42	43	48	42	43
LMV--8		Rural									
		Urban									
	(A)	Metered Supply	-	-	-	-	-	-	-	-	-
	(B)	Un-metered Supply									
		(i) STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-	-	-	-	-	-	-	-	-
		(ii) Laghu Dal Nahar above 100 BHP	-	-	-	-	-	-	-	-	-
SUB TOTAL	STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		-	-	-	-	-	-	-	-	-
LMV--9		Rural									

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KESCO Discom			Projected Sales -KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
		Urban									
	(A)	Metered Supply									
		(i) Individual Residential Consumers	-	-	-	-	-	-	-	-	-
		(ii) Others	-	-	-	-	-	-	-	-	-
	(B)	Un-metered Supply									
		(i) Ceremonies	-	-	-	-	-	-	-	-	-
		(ii) Temporary Shops	-	-	-	-	-	-	-	-	-
SUB TOTAL	TEMPORARY SUPPLY (LMV-9)		-	-	-	-	-	-	-	-	-
LMV--10	(A)	Serving									
		(i) Class IV Employees	-	-	-	-	-	-	-	-	-
		(ii) Class III Employees	3.80	3.89	3.89	3.80	3.82	4.71	3.80	3.82	4.71
		(iii) Junior Engineers & Equivalent	-	-	-	-	-	-	-	-	-
		(iv) Assistant Engineers & Equivalent	-	-	-	-	-	-	-	-	-
		(v) Executive Engineers & Equivalent	-	-	-	-	-	-	-	-	-
		(vi) Deputy General Manager & Equivalent	-	-	-	-	-	-	-	-	-
		(vii) CGM/GM & Equivalent posts and above	-	-	-	-	-	-	-	-	-
	(B)	Total Pensioner & Family Pensioner	12.99	12.99	12.99	12.99	13.28	14.10	12.99	13.28	14.10
SUB TOTAL	DEPARTMENTAL EMPLOYEES (LMV-10)		16.79	16.88	16.88	16.79	17.10	18.81	16.79	17.10	18.81
HV--1		Rural									
		Urban									
	(A)	Urban Schedule									
		(i) For supply at 11kV	86	88	90	86	88	90	86	88	90
		(ii) For supply above 11kV and upto & Including 66kV	53	53	54	53	53	54	53	53	54

KESCO Discom				Projected Sales -KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY		2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
		(iii)	For supply above 66kV and upto & Including 132kV	-	-	-	-	-	-	-	-	-
		(iv)	For supply above 132kV	-	-	-	-	-	-	-	-	-
	(B)	Rural Schedule										
		(i)	For supply at 11kV	-	-	-	-	-	-	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-	-	-	-	-	-	-
SUB TOTAL	NON INDUSTRIAL BULK LOADS (HV-1)			139	142	144	139	142	144	139	142	144
HV--2		Rural										
		Urban										
	(A)	Urban Schedule										
		(i)	For supply at 11kV	215	297	303	215	297	303	215	297	303
		(ii)	For supply above 11kV and upto & Including 66kV	63	79	79	63	79	79	63	79	79
		(iii)	For supply above 66kV and upto & Including 132kV	255	69	70	255	69	70	255	69	70
		(iv)	For supply above 132kV	-	-	-	-	-	-	-	-	-
	(B)	Rural Schedule										
		(i)	For supply at 11kV	-	-	-	-	-	-	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-	-	-	-	-	-	-
SUB TOTAL	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)			533	445	452	533	445	452	533	445	452
HV--3		Rural										
		Urban										
	(A)	For supply at the above 132kV		-	-	-	-	-	-	-	-	-
	(B)	For supply below 132kV		-	-	-	-	-	-	-	-	-
	(C)	For Metro Traction		-	-	-	-	-	-	-	-	-
SUB TOTAL	RAILWAY TRACTION (HV-3)			-	-	-	-	-	-	-	-	-
HV--4		Rural										

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KESCO Discom			Projected Sales -KESCO			Projected (Impact of Running Hours on Sales)			Projected (Impact of Demand Side Management on Sales)		
SUPPLY TYPE	CATEGORY	CATEGORY	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
		Urban									
	(A)	For supply at 11kV	-	-	-	-	-	-	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-	-	-	-	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-	-	-	-	-	-	-
SUB TOTAL	LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)		-	-	-	-	-	-	-	-	-
EXTRA STATE		Rural									
		Urban									
	(A)	EXTRA STATE & OTHERS	-	-	-	-	-	-	-	-	-
SUB TOTAL	EXTRA STATE CONSUMERS		-	-	-	-	-	-	-	-	-
BULK		Rural									
		Urban									
	(A)	NPCL	-	-	-	-	-	-	-	-	-
	(B)	KESCO	-	-	-	-	-	-	-	-	-
SUB TOTAL	BULK SUPPLY		-	-	-	-	-	-	-	-	-
	GRAND TOTAL		2,582	2,719	2,832	2,582	2,769	3,278	2,582	2,769	3,278

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7.3 ACTUAL BILLING DETERMINANTS FOR FY 2014-15

The detailed category-wise data for previous year 2014-15 is placed in the table below:

Table 7-13: Actual Billing Determinant for FY 2014-15

SUPPLY TYPE	CATG.	KESCO FY 2014-15		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV--1	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load		-	-	-
		Other Metered Domestic Consumers		4,38,484	10,29,413	1,250
	(C2)	Life Line Consumers/BPL		-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)		4,38,484	10,29,413	1,250
LMV--2	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex		-	-	1
		Other Metered Non-Domestic Supply		73,262	2,15,187	251
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)		73,262	2,15,187	251
LMV--3	(A)	Un-metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
			Nagar Nigam	18	14,117	51
	(B)	Metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)		18	14,117	51
LMV--4	(A)	Public Institution(4 A)		594	10,854	34
	(B)	Private Institution(4 B)		152	2,728	5
SUB TOTAL		LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)		746	13,582	39
LMV--5	(A)	Rural Schedule				
		(i)	Un metered Supply	-	-	-
		(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule				
		(i)	Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS		-	-	-

SUPPLY TYPE	CATG.	KESCO FY 2014-15		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
		(LMV-5)				
LMV--6	(A)	Small & Medium Power (Power Loom)				
		(i)	Rural Schedule	-	-	-
		(ii)	Urban Schedule	1,121	18,169	4
	(B)	Small & Medium Power				
		(i)	Rural Schedule	-	-	1
		(ii)	Urban Schedule	7,793	94,471	251
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)		8,914	1,12,640	255
LMV--7	(A)	Rural Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	-	-	-
		(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	526	20,505	48
		(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)		526	20,505	48
LMV--8	(A)	Metered Supply		-	-	-
	(B)	Un-metered Supply				
		(i)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	-	-	-
		(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		-	-	-
LMV--9	(A)	Metered Supply				
		(i)	Individual Residential Consumers	-	-	-
		(ii)	Others	-	-	-
	(B)	Un-metered Supply				
		(i)	Ceremonies	-	-	-
		(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)		-	-	-
LMV--10	(A)	Serving				
		(i)	Class IV Employees	-	-	-
		(ii)	Class III Employees	1,759	5,277	4
		(iii)	Junior Engineers & Equivalent	-	-	-
		(iv)	Assistant Engineers & Equivalent	-	-	-
		(v)	Executive Engineers & Equivalent	-	-	-
		(vi)	Deputy General Manager & Equivalent	-	-	-
		(vii)	CGM/GM & Equivalent	-	-	-

SUPPLY TYPE	CATG.	KESCO FY 2014-15		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
			posts and above			
	(B)	Total Pensioner & Family Pensioner		1,587	4,761	13
SUB TOTAL	DEPARTMENTAL EMPLOYEES (LMV-10)			3,346	10,038	17
HV--1	(A)	Urban Schedule				
		(i)	For supply at 11kV	158	47,278	86
		(ii)	For supply at 33 kV & above	9	17,983	53
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-
		(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL	NON INDUSTRIAL BULK LOADS (HV-1)			167	65,261	139
HV--2	(A)	Urban Schedule				
		(i)	For supply at 11kV	566	1,32,612	215
		(ii)	For supply above 11kV and upto & Including 66kV	4	33,400	63
		(iii)	For supply above 66kV and upto & Including 132kV	2	43,000	255
		(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)			572	2,09,012	533
HV--3	(A)	For supply at and above 132kV		-	-	-
	(B)	For supply below 132kV		-	-	-
	(C)	For Delhi Metro Rail		-	-	-
SUB TOTAL	RAILWAY TRACTION (HV-3)			-	-	-
HV--4	(A)	For supply at 11kV		-	-	-
	(B)	For supply above 11kV and upto 66kV		-	-	-
	(C)	For supply above 66kV and upto 132kV		-	-	-
SUB TOTAL	LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)			-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS		-	-	-
SUB TOTAL	EXTRA STATE CONSUMERS			-	-	-
BULK	(A)	Torrent (Depicted as Retail Sales)		-	-	-
	(B)	KESCO				
SUB TOTAL	BULK SUPPLY			-	-	-
GRAND TOTAL				5,26,035	16,89,755	2,582

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7.4 BILLING DETERMINANTS FOR FY 2015-16

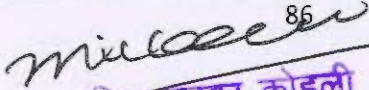
The estimated category-wise billing determinants for the FY 2015-16 is placed in the table below:

Table 7-14: Estimated Billing Determinant for FY 2015-16

SUPPLY TYPE	CATG.	KESCO FY 2015-16		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV--1	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load		-	-	-
	(C1)	Other Metered Domestic Consumers		4,73,563	11,11,766	1,520
	(C2)	Life Line Consumers/BPL		-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)		4,73,563	11,11,766	1,520
LMV--2	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex		-	-	-
	(C)	Other Metered Non-Domestic Supply		62,600	1,83,870	220
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)		62,600	1,83,870	220
LMV--3	(A)	Un-metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
		(iii)	Nagar Nigam	18	14,117	61
	(B)	Metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
		(iii)	Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)		18	14,117	61
LMV--4	(A)	Public Institution(4 A)		624	11,397	45
	(B)	Private Institution(4 B)		161	3,095	7
SUB TOTAL		LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)		785	14,492	53
LMV--5	(A)	Rural Schedule				
		(i)	Un metered Supply	-	-	-
		(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule				
		(i)	Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)		-	-	-
LMV--6	(A)	Small & Medium Power (Power Loom)				
		(i)	Rural Schedule	-	-	-
		(ii)	Urban Schedule	1,132	18,351	-
	(B)	Small & Medium Power				
		(i)	Rural Schedule	-	-	-

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SUPPLY TYPE	CATG.	KESCO FY 2015-16		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
		(ii)	Urban Schedule	8,183	99,195	270
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)		9,315	1,17,545	270
LMV--7	(A)	Rural Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	-	-	-
		(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	531	17,893	42
		(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)		531	17,893	42
LMV--8	(A)	Metered Supply		-	-	-
	(B)	Un-metered Supply				
		(i)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	-	-	-
		(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		-	-	-
LMV--9	(A)	Metered Supply				
		(i)	Individual Residential Consumers	-	-	-
		(ii)	Others	-	-	-
	(B)	Un-metered Supply				
		(i)	Ceremonies	-	-	-
		(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)		-	-	-
LMV--10	(A)	Serving				
		(i)	Class IV Employees	-	-	-
		(ii)	Class III Employees	1,759	97,708	4
		(iii)	Junior Engineers & Equivalent	-	-	-
		(iv)	Assistant Engineers & Equivalent	-	-	-
		(v)	Executive Engineers & Equivalent	-	-	-
		(vi)	Deputy General Manager & Equivalent	-	-	-
		(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner		1,587	29,514	13
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)		3,346	1,27,222	17
HV--1	(A)	Urban Schedule				
		(i)	For supply at 11kV	161	48,224	88
		(ii)	For supply at 33 kV & above	9	18,163	53
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-

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SUPPLY TYPE	CATG.	KESCO FY 2015-16		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
		(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL	NON INDUSTRIAL BULK LOADS (HV-1)			170	66,386	142
HV--2	(A)	Urban Schedule				
		(i)	For supply at 11kV	577	1,35,264	297
		(ii)	For supply above 11kV and upto & Including 66kV	4	33,734	79
		(iii)	For supply above 66kV and upto & Including 132kV	2	43,430	69
		(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule				
		(i)	For supply at 11kV	-	-	-
		(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)			583	2,12,428	445
HV--3	(A)	For supply at and above 132kV		-	-	-
	(B)	For supply below 132kV		-	-	-
	(C)	For Delhi Metro Rail		-	-	-
SUB TOTAL	RAILWAY TRACTION (HV-3)			-	-	-
HV--4	(A)	For supply at 11kV		-	-	-
	(B)	For supply above 11kV and upto 66kV		-	-	-
	(C)	For supply above 66kV and upto 132kV		-	-	-
SUB TOTAL	LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)			-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS		-	-	-
SUB TOTAL	EXTRA STATE CONSUMERS			-	-	-
BULK	(A)	Torrent		-	-	-
	(B)	KESCO				
SUB TOTAL	BULK SUPPLY			-	-	-
GRAND TOTAL				5,50,911	18,65,720	2,769

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7.5 PROJECTED BILLING DETERMINANTS FOR FY 2016-17

The projected category-wise billing determinants for the FY 2016-17 is placed in the table below:

Table 7-15: Projected Billing Determinant for FY 2016-17

SUPPLY TYPE	CATG.	KESCO FY 2016-17		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV--1	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load		-	-	-
	(C1)	Other Metered Domestic Consumers		5,11,448	12,00,707	1,939
	(C2)	Life Line Consumers/BPL		-	-	-
SUB TOTAL	DOMESTIC LIGHT FAN & POWER (LMV-1)			5,11,448	12,00,707	1,939
LMV--2	(A)	Consumer getting supply as per "Rural Schedule"				
		(i)	Un-metered	-	-	-
		(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex		-	-	-
	(C)	Other Metered Non-Domestic Supply		53,489	1,57,111	222
SUB TOTAL	NON DOMESTIC LIGHT FAN & POWER (LMV-2)			53,489	1,57,111	222
LMV--3	(A)	Un-metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
		(iii)	Nagar Nigam	18	14,117	61
	(B)	Metered Supply				
		(i)	Gram Panchyat	-	-	-
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-
		(iii)	Nagar Nigam	-	-	-
SUB TOTAL	PUBLIC LAMPS (LMV-3)			18	14,117	61
LMV--4	(A)	Public Institution(4 A)		655	11,967	56
	(B)	Private Institution(4 B)		171	3,281	9
SUB TOTAL	LIGHT, FAN & POWER FOR PUB./PRIV. INST. (LMV-4)			826	15,248	65
LMV--5	(A)	Rural Schedule				
		(i)	Un metered Supply	-	-	-
		(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule				
		(i)	Metered Supply	-	-	-
SUB TOTAL	PRIVATE TUBE WELL/PUMPING SETS (LMV-5)			-	-	-

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SUPPLY TYPE	CATG.	KESCO FY 2016-17		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV--6	(A)	Small & Medium Power (Power Loom)				
		(i)	Rural Schedule	-	-	-
		(ii)	Urban Schedule	1,144	18,534	-
	(B)	Small & Medium Power				
		(i)	Rural Schedule	-	-	-
		(ii)	Urban Schedule	8,592	1,04,154	334
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)		9,735	1,22,688	334
LMV--7	(A)	Rural Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	-	-	-
		(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule				
		(i)	Jal Nigam	-	-	-
		(ii)	Jal Sansthan	537	18,072	43
		(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)		537	18,072	43
LMV--8	(A)	Metered Supply		-	-	-
	(B)	Un-metered Supply				
		(i)	STW, Panchayat Raj WB I. Duch P.C, L I upto 100 BHP	-	-	-
		(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)		-	-	-
LMV--9	(A)	Metered Supply				
		(i)	Individual Residential Consumers	-	-	-
		(ii)	Others	-	-	-
	(B)	Un-metered Supply				
		(i)	Ceremonies	-	-	-
		(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)		-	-	-
LMV--10	(A)	Serving				
		(i)	Class IV Employees	-	-	-
		(ii)	Class III Employees	1,759	97,708	5
		(iii)	Junior Engineers & Equivalent	-	-	-
		(iv)	Assistant Engineers & Equivalent	-	-	-
		(v)	Executive Engineers & Equivalent	-	-	-
		(vi)	Deputy General Manager & Equivalent	-	-	-
		(vii)	CGM/GM & Equivalent posts and above	-	-	-

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SUPPLY TYPE	CATG.	KESCO FY 2016-17	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
	(B)	Total Pensioner & Family Pensioner	1,587	29,514	14
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	3,346	1,27,222	19
HV--1	(A)	Urban Schedule			
	(i)	For supply at 11kV	164	49,188	90
	(ii)	For supply at 33 kV & above	9	18,344	54
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	174	67,532	144
HV--2	(A)	Urban Schedule			
	(i)	For supply at 11kV	589	1,37,970	303
	(ii)	For supply above 11kV and upto & Including 66kV	4	34,071	79
	(iii)	For supply above 66kV and upto & Including 132kV	2	43,864	70
	(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	595	2,15,905	452
HV--3	(A)	For supply at and above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Delhi Metro Rail	-	-	-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-
HV--4	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK	(A)	Torrent	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
GRAND TOTAL			5,80,167	19,38,603	3,278

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7.6 SALES FORECAST AND ENERGY BALANCE

The actual Distribution Losses in FY 2014-15 were 26.04%. The Petitioner estimates its Distribution losses at 23.50% for FY 2015-16. In the ensuing year FY 2016-17, the Petitioner has projected a Distribution loss of 22.00%. Based on the aforementioned sales forecast and loss levels, the energy balance for FY 2016-17 is presented in the table below:

Table 7-16: Energy Balance for FY 2014-15, 2015-16 and 2016-17

Energy Balance	Unit	FY 2014-15	FY 2015-16	FY 2016-17
Power Purchase	MU	3,490.81	3,619.54	4,203.02
Line Losses	MU	1,096.30	1,031.30	924.66
Sales	MU	2,581.75	2,768.95	3,278.36
T&D Losses	%	26.04%	23.50%	22.00%

7.7 ESTIMATED REVENUE ASSESSMENT FOR FY 2015-16

The table below presents the projected revenue assessment for FY 2015-16 based on tariff order dated 1st October 2014 and 18th June 2015.

Table 7-17: Revenue Assessment for FY 2015-16

Consumer Category	Assessment Revenue	Electricity Sales	Through Rate
	Rs. Cr	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	859.36	1,520.39	5.65
LMV-2: Non Domestic Light, Fan & Power	203.58	219.67	9.27
LMV-3: Public Lamps	50.82	60.99	8.33
LMV-4: Institutions	39.61	52.59	7.53
LMV-5: Private Tube Wells	-	-	-
LMV 6: Small and Medium Power	212.51	269.56	7.88
LMV-7: Public Water Works	34.91	42.21	8.27
LMV-8: State Tubewells & Pumped Canals	-	-	-
LMV-9: Temporary Supply	-	-	-
LMV-10: Deptt. Empl. & Pensioners	3.51	17.10	2.06
HV-1: Non-Industrial Bulk Load	120.61	141.69	8.51
HV-2: Large & Heavy Power	347.32	444.75	7.81
HV-3: Railway Traction	-	-	-
HV-4: Lift Irrigation Works	-	-	-
Total	1,872.23	2,768.95	6.76

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7.8 PROJECTED REVENUE ASSESSMENT FOR FY 2016-17

The table below presents the projected revenue assessment for FY 2016-17 on current tariff based on UPERC Tariff Order for FY 2015-16 dated 18th June 2015.

Table 7-18: Revenue Assessment for FY 2016-17

Consumer Category	Assessment Revenue	Electricity Sales	Through Rate
	Rs. Cr	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	1,072.37	1,938.70	5.53
LMV-2: Non Domestic Light, Fan & Power	198.52	221.62	8.96
LMV-3: Public Lamps	50.82	60.99	8.33
LMV-4: Institutions	48.50	65.29	7.43
LMV-5: Private Tube Wells	-	-	-
LMV 6: Small and Medium Power	257.31	334.17	7.70
LMV-7: Public Water Works	35.25	42.63	8.27
LMV-8: State Tubewells & Pumped Canals	-	-	-
LMV-9: Temporary Supply	-	-	-
LMV-10: Deptt. Empl. & Pensioners	3.51	18.81	1.87
HV-1: Non-Industrial Bulk Load	122.59	143.99	8.51
HV-2: Large & Heavy Power	353.14	452.16	7.81
HV-3: Railway Traction	-	-	-
HV-4: Lift Irrigation Works	-	-	-
Total	2,142.03	3,278.36	6.53

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8. ARR FOR WHEELING & RETAIL SUPPLY BUSINESS

The Hon'ble Commission has issued Distribution Tariff Regulations, which require that the Distribution Licensee shall file Aggregate Revenue Requirement (ARR) complete in all respect along with requisite fees as prescribed by the Commission. The ARR Petition shall contain details of estimated expenditure and expected revenue that it may recover in the ensuing financial year at the prevailing rate of tariff. Further the Distribution Tariff Regulations require that ARR 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 Distribution Tariff Regulations has broadly classified cost incurred by the licensee as controllable & uncontrollable costs. Uncontrollable cost include fuel cost, increase in cost due to changes in interest rate, increase of cost due to inflation, taxes & cess, variation of power purchase unit costs etc. The FY 2007-08 Tariff Order is the first Order issued by the Hon'ble Commission in accordance with the Distribution Tariff Regulations; in this Tariff Order, the Hon'ble Commission used allocation methodology for segregation of Wheeling & Retail Supply business function of ARR. The Petitioner has adopted the same methodology for deriving wheeling charges, as the complete segregation of accounts between Wheeling and Retail Supply business has not yet been completed.

COMPONENTS OF ANNUAL REVENUE REQUIREMENT

Distribution Tariff Regulations prescribe that annual expenditure of a distribution licensee comprises of the following components:

- a. Power Purchase Cost
- b. Transmission Charge
- c. Operation & Maintenance Expense (Employee Costs A&G Expenses & R&M Expenses)
- d. Depreciation
- e. Interest & Financing Costs
- f. Bad and Doubtful Debts
- g. Return on Equity
- h. Taxes on Income
- i. Other expense
- j. Contribution to Contingency Reserve

The Petitioner in the current petition is filing the ARR for FY 2016-17 for the kind approval by the Hon'ble Commission. In estimating the ARR, the main objective of the Petitioner is to reduce or at least contain the expenses to the extent possible thereby reducing the cost burden on the consumers. The Hon'ble Commission issued the true up order for FY 2012-13 and ARR & Tariff order for FY 2015-16 on 18th June, 2015 in which it adopted a normative approach towards capital

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investment and other aspects. The current ARR Petition is being filed by the Petitioner in strict compliance with the Distribution Tariff Regulations and in line with the philosophies established by the Hon'ble Commission in its previous true-up and ARR orders.

The Petitioner is making concerted efforts to improve the quality of supply and customer service level. The Petitioner has made elaborate plan for capital investment. In spite of the Petitioner's effort to control expenses the total Revenue Requirement has risen mainly due to uncontrollable factor such as power purchase cost. The Petitioner would like to highlight that all the revenue realized has been utilized in making power purchase cost.

The detailed analysis & estimate of all the elements of ARR for FY 2016-17 have been presented in the subsequent sections with appropriate explanations. The cost elements of ARR have been estimated based on the provisional un-audited accounts of FY 2014-15 and expenses available till date for the FY 2015-16.

The Distribution Tariff Regulations suggest for formulation of an escalation index linked with appropriate indices/rates like Consumer Price Index (CPI) and Wholesale Price Index (WPI) as notified by Central Government for different years. As per the Distribution Tariff Regulations for determination of Operation & Maintenance expenses (which comprises of employee cost, administrative and general (A&G) expenses and repair and maintenance (R&M) expenses) for the years 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 the guidelines provided in the Distribution Tariff Regulations.

8.1 ESCALATION INDEX / INFLATION RATE

The Distribution Tariff Regulations 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, the Petitioner has used this methodology in arriving at Escalation Index/Inflation Rate of 7.69% in FY 2014-15, 4.01% in FY 2015-16 and 0.92% in FY 2016-17. This Escalation / Inflation index has been used in estimation of various components of ARR. The calculation of Escalation/ Inflation Index is given in following table:

$\text{Inflation Rate} = 0.6 * \text{Inflation based on WPI} + 0.4 * \text{Inflation based on CPI}$

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Table 8-1: Escalation Index for FY 2015-16

Month	Wholesale Price Index		Consumer Price Index		Consolidated Index	
	FY 14	FY 15	FY 14	FY 15	FY 14	FY 15
April	171	181	226	242	193	205
May	171	182	228	244	194	207
June	173	183	231	246	196	208
July	176	185	235	252	199	212
August	179	186	237	253	202	213
September	181	185	238	253	204	212
October	181	184	241	253	205	211
November	182	181	243	253	206	210
December	180	179	239	253	203	208
January	179	177	237	254	202	208
February	180	176	238	253	203	207
March	180	176	239	254	204	207
Average	178	181	236	251	200.99	209.05
Hike over Sept 13					Calculation of Inflation Index (CPI-40%, WPI-60%)	
Weighted Average of Inflation						4.01%

WPI-http://eaindustry.nic.in

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

Table 8-2: Escalation Index for FY 2016-17

Month	Wholesale Price Index			Consumer Price Index			FY14	FY15	FY16
	FY 14	FY 15	FY 16	FY 14	FY 15	FY 16			
April	171	181	176	226	242	256	193	205	208
May	171	182	178	228	244	258	194	207	210
June	173	183	179	231	246	261	196	208	212
July	176	185	178	235	252	263	199	212	212
August	179	186	177	237	253	264	202	213	212
September	181	185	177	238	253	266	204	212	212
October	181	184		241	253		205	211	
November	182	181		243	253		206	210	
December	180	179		239	253		203	208	
January	179	177		237	254		202	208	
February	180	176		238	253		203	207	
March	180	176		239	254		204	207	
Average	178	181	177	236	251	261	201	209	211
Weighted Average of Inflation									0.92%

WPI-http://eaindustry.nic.in

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

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8.2 POWER PURCHASE COSTS

The rationale for projecting the power purchase units and expenses for FY 2016-17 have been explained below:-

- The power purchase units are projected based on estimated T&D losses of 22.00% in FY 2016-17.
- KESCO is a 100% subsidiary of UPPCL and sources all its power purchases from UPPCL (through Dakshinanchal Vidyut Vitran Nigam Limited)
- The power purchase rates (bulk supply rate) for FY 2016-17 has been considered at Rs. 4.21 per kWh in FY 2016-17.
- The energy input at discom end has been considered at 4,203.02 MU for FY 2016-17.
- Thus considering the aforementioned rates and power purchase input, the power purchase cost of KESCO has been considered at Rs. 1,770.85 crore in FY 2016-17.

Power Purchase Cost of KESCO is summarized in table below for FY 2016-17

Table 8-3: Projected Power Purchase Costs for the Tariff Period

Particulars	Derivation	FY 2016-17
Energy Sales (MU)	A	3,278.36
Distribution Loss (%)	B	22.00%
Distribution Loss (MU)	$C = A/(1-B) - A$	924.66
Power Purchase Required (MU)	$D = A + C$	4,203.02
Bulk Power Purchase Rate (Rs/kWh)	E	4.21
Power Purchase Cost (Rs Crore)	$F = D \times E / 10$	1,770.85

8.3 TRANSMISSION CHARGES

The projections of transmission charges have been traced from the ARR/Tariff Petition filed by U.P. Power Transmission Corporation Ltd for the FY 2015-16 filed before the Hon'ble Commission.

In such Petition, U.P. Power Transmission Corporation Ltd has projected transmission charge rate of Rs. 0.19358 per kWh for FY 2016-17. Considering the wheeled energy of 4,203.02 MU, it translates to Rs. 81.36 crores of transmission charges in FY 2016-17.

Table 8-4: Projected Transmission Charges

Particulars		FY 2016-17
Energy Procured (MU)	A	4,203.02
Transmission Tariff (Rs/kWh)	B	0.19358
Transmission Cost (Rs Crore)	$C = A \times B / 10$	81.36

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8.4 OPERATION & MAINTENANCE EXPENSES

Operation & Maintenance expenses comprise of Employee costs, Administrative & General (A&G) Expenses and Repair & Maintenance (R&M) expenses. The Regulation 4.3 of the Distribution Tariff Regulations issued by the Hon'ble 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).."

The Hon'ble Commission in its previous true-up orders had determined the O&M expenses for the base year and subsequently in the order dated 18th June 2015 in the matter of determination of ARR and Tariff for FY 2015-16, had allowed the O&M expenses strictly in line with the Distribution Tariff Regulations, considering escalation indices and O&M expenses on new assets. The pay revision expenses were considered separately and the base employee expenses were increased to account for the increase due to wage revision.

8.4.1 O&M EXPENSES ON ADDITION TO ASSETS DURING THE YEAR

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

Considering the 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 expenses.

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Table 8-5: Allocation of Incremental O&M expenses for FY 2016-17 (Rs Crore)

Incremental O&M Expenses @ 2.5% of capital additions during the (n-1)th year	FY 2015-16	FY 2016-17
Capitalized Assets in (n-1)th year	20.10	111.17
Incremental O&M Expenses	0.50	3.30
(a) Employee Costs	0.26	1.68
(b) A&G Expenses	0.13	0.87
(c) R&M Expenses	0.11	0.75

8.5 O&M EXPENSES FOR FY 2016-17

The Petitioner has computed the allowable O&M expenses up to FY 2013-14 in the foregoing sections. The allowable O&M expenses for FY 2016-17 have been claimed by escalating the component wise O&M expenses for FY 2013-14 by using the yearly inflation indices approved by the Hon'ble Commission up to FY 2015-16 in its Tariff Order dated 18th June 2015 and at the rate of 0.92%% for FY 2016-17 as computed in Section titled 'Escalation / Inflation Index' above.

Thus, the allowable O&M expenses for FY 2016-17 are depicted in the table below:

Table 8-6: Allowable O&M Expenses for FY 2016-17 (Rs Crore)

Particulars	FY 2014-15	FY 2015-16	FY 2016-17
Employee Expenses			
Gross Employee Costs and Provisions	99.42	116.02	117.09
Incremental Employee Expenses @ 2.5% of GFA additions of preceding year	-	0.26	1.68
Gross Employee Expenses	99.42	116.28	118.77
Employee expenses capitalized	1.41	17.44	17.82
Net Employee Expenses	98.00	98.84	100.96
A&G Expenses			
Gross A&G Expenses	42.58	60.03	60.58
Incremental Employee Expenses @ 2.5% of GFA additions of preceding year	-	0.11	0.75
Gross A&G Expenses	42.58	60.14	61.33
A&G expenses capitalized	0.03	9.02	9.20
Net A&G Expenses	42.56	51.12	52.13
R&M Expenses			
Repair & Maintenance Expenditure	51.18	51.71	52.18
Incremental Employee Expenses @ 2.5% of GFA	-	0.13	0.87

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Particulars	FY 2014-15	FY 2015-16	FY 2016-17
additions of preceding year			
Gross Repair & Maintenance Expenses	51.18	51.84	53.05
Total O&M Expenses Allowable as per Regulations	191.74	201.80	206.14

The Petitioner submits that increase in dearness pay may be higher than the escalation index determined as per the Transmission Tariff Regulations. It is humbly prayed that any variation in employee expenses due to increase in dearness pay may be considered by the Hon'ble Commission at the time of true-up for the relevant year based on specific submissions by the Petitioner in this regard. Further, the draft report of the 7th Pay Commission has been tabled before the Central Government. The Pay Commission recommendations with some modifications are adopted at the State level. The Petitioner being a government company would have to pass on such pay revision which is due with effect from 1.1.2016. The Petitioner seeks liberty to suitably approach the Hon'ble Commission for revision of the O&M expenses upon finalisation of the pay revision of the employees.

8.6 CAPITAL EXPENDITURE, CAPITAL FORMATION ASSUMPTION AND GROSS FIXED ASSET (GFA) BALANCES.

The details of the proposed capital investment for FY 2015-16 are provided in the table below:

Table 8-7: Capital Investment Plan for FY 2015-16 (Rs Crore)

Description	Qty	Capital Expenditure			
		Loans	Equity / Internal Accruals	Deposit Works	Total
Capacity Enhancement/Construction of 33/11 kV Sub-stations	2 Nos	0.28	0.12	0.00	0.40
Replacement of Damaged 33kV Breakers	5 Nos	0.09	0.04	0.00	0.12
Replacement of Damaged 11kV Incoming/Outgoing/Bus-Couplers with Breakers	10 Nos	0.12	0.05	0.00	0.18
Installation of 250 KVA and 400 KVA transformers	13 - 400 KVA; 64 - 250 KVA	0.94	0.40	0.00	1.34
Capacity enhancement of distribution transformers from 250KVA to 400 KVA	34 Nos	0.31	0.13	0.00	0.45
Installation of Aerial Bunch Conductor	250 Kms	4.29	1.84	0.00	6.13

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Description	Qty	Capital Expenditure			
		Loans	Equity / Internal Accruals	Deposit Works	Total
Replacement of Old Conductors	19 Kms	0.29	0.13	0.00	0.42
Replacement of Old Poles	770 Nos	0.31	0.13	0.00	0.44
Replacement of 33kV Line	11.45 kms	1.53	0.66	0.00	2.18
Construction of 33 KV Overhead Line	4 kms	0.29	0.13	0.00	0.42
Construction of 33 kV underground line	10 Kms	2.64	1.13	0.00	3.77
Construction of 11 kV Overhead line	17 kms	0.47	0.20	0.00	0.68
Replacement of 11Kv cables/underground cables	27.5 Kms	1.24	0.53	0.00	1.77
Plinth works and Fencing Works of Transformers	140 Nos	0.30	0.13	0.00	0.43
Guarding of 33kV and 11kV S/S	20 Kms	0.11	0.05	0.00	0.15
Replacement & Installation of Meters	42000 Nos	1.50	0.64	0.00	2.15
Installation of 3 phase meters	3500 Nos	0.50	0.22	0.00	0.72
Checking of Meters	50000 Nos	0.50	0.21	0	0.72
Double Metering of Consumers	0	-	-	0	-
(a) LT Meters	1000 Nos	0.50	0.21	0	0.72
(b) HT Meters	171 Nos	0.36	0.15	0	0.52
Purchase and Installation of L.P.R	1500 Nos	0.10	0.04	0	0.14
Investment on the new Online Billing Centers	5 Nos	0.10	0.04	0	0.14
Business Plan		71.75	30.75	0	102.50
Underground Cable Works		50.40	21.60	0	72.00
System Improvement	NA	0.82	0.35	0	1.18
Deposit Works	NA	0	0	4.44	4.44
Total	0	139.76	59.90	4.44	204.09

Further for FY 2016-17, investments to the tune of Rs. 184.27 crore have been envisaged under Integrated Power Development Scheme (IPDS) of Govt. of India. The copy of the capital investment scheme to be sent for project appraisal the nodal agency of Govt. of India for its approval is enclosed herewith and marked as 'Annexure-4'. Additionally investments through deposit works to the tune of Rs. 20 crore have been projected for the ensuing year. Thus, the total capital expenditure has been projected to the tune of Rs. 204.27 crore for FY 2016-17.

The scope of works under for strengthening of sub-transmission and distribution network under the IPDS scheme include the following:

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- Creation of new sub stations including GIS along with associated 66 KV/ 33KV/ 11 KV lines.
- Augmentation of existing sub-stations capacity by installation of higher capacity/ additional power transformer along with associated equipment / switchgear etc.
- Erection of HT lines for re-orientation/ re-alignment including augmentation of existing lines.
- Installation of new distribution transformers and augmentation of existing distribution transformers along with associated LT lines.
- Installation of capacitors.
- Renovation and Modernization of existing sub-stations and lines.
- Laying of under-ground cables in densely populated areas and areas of tourism and religious importance.
- High voltage distribution system (HVDS).
- Aerial Bunched Cable for theft prone areas.
- IT Applications:-
 - ERP
 - Customer Care Services.

The projected capital expenditure is proposed to be funded in a debt equity mix of 70:30 which is also in line with the Distribution Tariff Regulations and established philosophy of the Hon'ble Commission.

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

The projected capital expenditure is proposed to be funded in a debt equity mix of 70:30 which is also in line with the Distribution Tariff Regulations and established philosophy of the Hon'ble Commission.

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

- The opening GFA and CWIP for FY 2015-16 have been taken as per the closing figures from provisional annual accounts of FY 2014-15.
- 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 been taken for capital formation. However depreciation thereon has not been charged to the ARR in line with the policy adopted by Hon'ble Commission in its last Tariff Orders.
- The capital investment for FY 2015-16 has been pegged at Rs. 204.09 crore out of which works through deposit works have been envisaged at Rs. 4.44 crore.

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- The Petitioner envisages a capital investment of Rs. 204.27 crore in FY 2015-16 out of which works through deposit works have been envisaged at Rs. 20.00 crore.
- The capital investment plan (net of deposit works) has been projected to be funded in the ratio of 70:30 (debt to equity).

Considering the aforementioned submissions, the capital formation and capital work in progress for FY 2015-16 and 2016-17 are presented below:

Table 8-8: Capitalization and WIP of Investment during FY 2015-16 and 2016-17 (Rs Crore)

Particulars	Derivation	FY 2015-16 Revised Estimates	FY 2016-17 ARR
Opening WIP as on 1st April	A	45.80	166.76
Investments	B	204.09	204.27
Employee Expenses Capitalisation	C	17.44	17.82
A&G Expenses Capitalisation	D	9.02	9.20
Interest Capitalisation on Interest on long term loans	E	1.57	4.27
Total Investments	F= A+B+C+D+E	277.93	402.31
Transferred to GFA (Total Capitalisation)	G=F*40%	111.17	160.92
Closing WIP	H= F-G	166.76	241.39

- Notes:** (1) Opening Balances as per provisional figures of FY 2014-15.
 (2) Capitalized expenses are from Emp. cost & A&G cost Tables
 (3) Transfer from WIP to GFA=40% of beginning WIP + 40% of total investment, capitalized Interest, Capitalized employee cost, capitalized A&G expenses.

Table 8-9: Gross Fixed Assets for FY 2015-16 & FY 2016-17

(All figures in Rs Crore)

Particulars		FY 2015-16 Revised Estimates	FY 2016-17 ARR
Opening GFA	A	636.11	747.29
Additional to GFA during the year	B	111.17	160.92
Closing GFA	C=A+B	747.29	908.21

8.7 FINANCING OF THE CAPITAL INVESTMENT

The Petitioner has considered a normative gearing of 70:30. Considering this approach, 70% of the capital expenditure undertaken in any year has been considered to be financed through loan and balance 30% has been considered to be financed through equity contributions. The portion of capital expenditure financed through consumer contribution, capital subsidies and grants has been separated as the depreciation and interest thereon would not be charged to the beneficiaries.

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The amounts received as consumer contributions, capital subsidies and grants are traced from the provisional accounts for FY 2014-15. Further, the consumer contributions, capital subsidies and grants for FY 2015-16 and 2016-17 have been considered to be in the same ratio to the total investments, as received by it in FY 2014-15.

The table below summarizes the amounts considered towards consumer contributions, capital grants and subsidies from FY 2014-15 to 2016-17:

Table 8-10: Consumer Contribution, Capital Grants & Subsidies up to 2016-17 (Rs Crore)

Particulars	2014-15	2015-16	2016-17
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	150.59	164.57	154.37
Additions during the year	18.45	4.44	20.00
Less: Amortisation	4.47	14.64	17.51
Closing Balance	164.57	154.37	156.86

Table 8-11: Financing of the Capital Investment up to FY 2016-17 (Rs Crore)

Particulars	Derivation	2014-15	2015-16	2016-17
Investment	A	39.91	204.09	204.27
Less:		-	-	-
Consumer Contribution	B	18.45	4.44	20.00
Investment funded by debt and equity	C=A-B	21.46	199.65	184.27
Debt Funded	70%	15.02	139.76	128.99
Equity Funded	30%	6.44	59.90	55.28

Thus, the Petitioner submits that out of the capital investment of Rs. 204.27 crore in FY 2016-17, the capital investment through deposit works would be to the tune of Rs. 20.00 crore. Balance Rs. 184.27 crore has been considered to be funded through debt and equity. Considering a debt equity ratio of 70:30, Rs. 128.99 crore or 70% of the capital investment is proposed to be funded through debt and balance 30% equivalent to Rs. 55.28 crore through equity.

8.8 DEPRECIATION EXPENSE

Regulation 4.9 of the Distribution Tariff Regulations provide for the basis of charging depreciation. The relevant excerpt is reproduced below:

"4.9 Depreciation:

- 1. For the purposes of tariff, depreciation shall be computed in the following manner, namely:*

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- a. The value base for the purpose of depreciation shall be the historical cost as provided in the Fixed Assets Register, excluding consumer contribution or capital subsidy/grant utilized for capitalization of the assets.....
5. Depreciation shall be chargeable from the first year of operation. In case of operation of the asset for part of the year, depreciation shall be charged on pro-rata basis."

Thus the Distribution Tariff Regulations provide for allowing -

- full year depreciation on the opening balance of GFA
- pro-rata depreciation on the additions made to the GFA balance during the relevant financial year

For the purpose of computing the allowable depreciation, the Petitioner has considered the GFA base as per audited accounts for FY 2013-14 and have subsequently added the yearly capitalizations for FY 2014-15, 2015-16 and 2016-17 considered in the foregoing sections. The Petitioner has computed the depreciation only on the depreciable asset base and has excluded the non-depreciable assets such as land, land rights, etc.

Further, Annexure B to the Distribution Tariff Regulations provides the depreciation rate to be charged on each class of asset. Accordingly, the Petitioner has computed depreciation at a weighted average rate of 7.84%.

Considering this philosophy, the gross entitlement towards depreciation has been computed to be Rs. 64.90 crore in FY 2016-17 as depicted in the table below:

Table 8-12: Gross Allowable Depreciation for FY 2016-17 (Rs Crore)

Particulars	Opening GFA	Additions to GFA	Deductions to GFA	Closing GFA	Depreciation Rates considered	Allowable Depreciation
Buildings						
a.Residential Colonies	12.03	2.59		14.63	7.84%	1.05
b.Office Building	1.98	0.43		2.40	7.84%	0.17
c.Building Containg at Sub-stations	22.88	4.93		27.81	7.84%	1.99
Plants & Machinery	-	-		-	7.84%	-
a.Plant & Machinery	212.41	45.74		258.15	7.84%	18.45
b.Lines, Cables, Networks etc.	476.65	102.65		579.30	7.84%	41.39
c.Office Equipments	7.67	1.65		9.33	7.84%	0.67
d.Computers	8.03	1.73		9.76	7.84%	0.70
Furniture & Fixtures	1.58	0.34		1.92	7.84%	0.14

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Vehicles	4.05	0.87		4.93	7.84%	0.35
Grand Total	747.29	160.92	-	908.21	7.84%	64.90

The Petitioner has projected the depreciation on assets created out of consumer contributions, capital grants and subsidies for FY 2014-15 and 2015-16 in the same ratio as per provisional accounts of FY 2014-15. The Petitioner has reduced the equivalent depreciation amounting to Rs. 14.64 crore and Rs. 17.51 crore in FY 2015-16 and 2016-17 respectively in respect of depreciation on assets created out of consumer contributions, capital grants and subsidies.

Thus, the allowable depreciation for FY 2016-17 has been depicted in the table below:

Table 8-13: Net Allowable Depreciation for FY 2016-17 (Rs Crore)

Particulars	FY 2015-16	FY 2016-17
Gross Allowable Depreciation	54.23	64.90
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and GoUP Subsidy	14.64	17.51
Net Allowable Depreciation	39.59	47.38

8.9 INTEREST ON LONG TERM LOANS

It is reiterated that the Petitioner has considered a normative tariff approach with a gearing of 70:30. In this approach, 70% of the capital expenditure undertaken in any year has been considered to be financed through loan and balance 30% has been considered to be funded through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants has been separated as the depreciation and interest thereon has not been charged to the beneficiaries.

Allowable depreciation for the year has been considered as normative loan repayment. The weighted average rate of interest of overall long term loan portfolio for FY 2013-14 has been considered for FY 2015-16 and 2016-17, as it seems to be fair and equitable. The interest capitalization has been considered at a rate of 23% which is consistent with the rate considered by the Hon'ble Commission in previous tariff orders.

The computations for interest on long term loan are depicted below:

Table 8-14: Allowable Interest on Long Term Loans for FY 2016-17 (Rs Crore)

Particulars	2015-16	2016-17
Opening Loan	2.92	103.08

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Particulars	2015-16	2016-17
Loan Additions (70% of Investments)	139.76	128.99
Less: Repayments (Depreciation allowable for the year)	39.59	47.38
Closing Loan Balance	103.08	184.69
Weighted Average Rate of Interest	12.90%	12.90%
Interest on long term loan	6.84	18.56
Interest Capitalisation Rate	23.00%	23.00%
Less: Interest Capitalized	1.57	4.27
Net Interest Charged	5.26	14.29

8.10 FINANCE CHARGES

The Petitioner has projected finance charges towards expenses such as guarantee fees and bank charges to the tune of Rs. 0.457 crore and Rs. 0.461 crore in FY 2015-16 and 2016-17 respectively. The same have been computed by extrapolating the actual guarantee fees and bank charges incurred in FY 2014-15 as per provisional accounts by using the Inflation Index. Further, the Petitioner humbly prays that it may be allowed to claim discount to consumers on actuals during truing up based on audited accounts.

8.11 INTEREST ON CONSUMER SECURITY DEPOSITS

In terms of the Regulation 4.8(3) of the Distribution Tariff Regulation, the Licensee has to pay interest to the consumers at bank rate or more on the consumer security deposit. Further, section 47(4) of the 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"*

Accordingly the interest to consumers on the security deposits has been computed on the Opening Balance of the Security Deposits at the beginning of the year at the bank rate of 8.50% for FY 2015-16 (as per Hon'ble Commission's order dated 18th June 2015) and 7.75% for FY 2016-17 (as per the prevailing rate on the date of filing the instant petition). However, the same shall be trued up based on audited accounts. The opening balances of security deposits have been considered as per closing figures of provisional accounts for FY 2014-15 and additions during the year for FY 2015-16 and 2016-17 are estimated in line with the projected load growth.

Table 8-15: Interest on Consumer Security Deposits (Rs Crore)

Particulars	FY 2014-15	FY 2015-16
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Particulars	FY 2014-15	FY 2015-16
Opening Balance for Security Deposit	112.86	124.61
Additions during the year	11.75	4.87
Closing Balance for Security Deposit	124.61	129.48
Rate of Interest	8.50%	7.75%
Interest Paid / Payable on Security Deposits	10.09	9.85

8.12 INTEREST ON WORKING CAPITAL

The Distribution Tariff Regulations provides for normative interest on working Capital based on the methodology outlined in the Regulations. The Petitioner is eligible for interest on working capital worked out on methodology specified in the Regulations as provided below:

- Operation and Maintenance expenses, which includes Employee costs, R&M expenses and A&G expenses, for one month;
- One-twelfth of the sum of the book value of stores, materials and supplies at the end of each month of current financial year;
- Receivables equivalent to 60 days average billing of consumers less security deposits by the beneficiaries

In accordance with the Distribution Tariff Regulations, the interest on the working capital requirement would be the Bank rate as specified by the Reserve Bank of India as on 1st April of the relevant year plus a margin as decided by the Hon'ble Commission. The Petitioner for this Petition has considered the interest rate on working capital requirement at 12.50% including margin. The actual rate of interest would be considered based on the audited accounts during the true-up process for the year in accordance the Distribution Tariff Regulations.

The Petitioner has, in accordance with the above mentioned Distribution Tariff Regulations, considered the interest on working capital which is shown in the table below:

Table 8-16: Allowable Interest on Working Capital (Rs Crore)

Particulars	FY 2015-16	FY 2016-17
	Revised Estimates	ARR
One month's O & M Expenses	19.02	19.43
One-twelfth of the sum of the book value of stores, materials and supplies at the end of each month of such financial year	1.42	1.42
Receivables equivalent to 60 days average billing of Beneficiaries	307.76	352.11
Gross Total	328.20	372.96

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Particulars	FY 2015-16	FY 2016-17
	Revised Estimates	ARR
Security Deposits by the beneficiaries (if any)	124.61	129.48
Net Working Capital	203.59	243.48
Rate of Interest for Working Capital	12.50%	12.50%
Interest on Working Capital	25.45	30.44

8.13 SUMMARY OF INTEREST AND FINANCE CHARGES

The allowable interest and finance charges are thus summarized in the table below:

Table 8-17: Interest and Finance Charges for FY 2016-17 (Rs. Crore)

Particulars	FY 2015-16 (Revised Estimates)	FY 2016-17 (ARR)
Interest on Long term Loans	6.84	18.56
Interest on Working Capital Loans	25.45	30.44
Sub Total	32.29	49.00
Interest on Consumer Security Deposits	9.53	9.62
Bank Charges	0.46	0.46
Discount to Consumers		-
Sub Total	9.99	10.08
Gross Total Interest & Finance Charges	42.28	59.08
Less: Capitalization of interest on Long term Loans	5.26	14.29
Interest Capitalization Rate (%)	23.00%	23.00%
Net Interest & Finance Charges	37.01	44.79

8.14 PROVISION FOR BAD AND DOUBTFUL DEBTS

Provisions have been made for bad and doubtful debts at 2% of revenue receivables in line with the Regulation 4.4 of the UPERC (Terms and Conditions for Determination of Distribution Tariff) Regulations, 2006 issued on October 6, 2006. In the last Tariff Order the Hon'ble Commission had disallowed the Petitioner's claim for Provision for Bad and Doubtful Debts due to the absence of any clear-cut policy. It is further submitted that provision for bad & doubtful debts are accepted accounting principle even in sector like Banking where the provisioning of un-collectable dues are considered as a normal commercial practice.

Despite the Hon'ble Commission's views on this component of ARR, it is humbly prayed that the annual provisioning towards bad and doubtful debts may be allowed to the Petitioner as it is an

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accepted industry norm 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 the Petitioner maintains that this is a legitimate ARR component. As such the Petitioner has made provisions for bad debts for FY 2015-16 and 2016-17 in line with the provisions stipulated in the Distribution Tariff Regulations. The Provision for Bad and Doubtful Debts for 2015-16 along with projections for the financial year 2016-17 are summarized in the table below:

Table 8-18: Provision for Bad and Doubtful Debts (Rs Crore)

Particulars	FY 2015-16	FY 2016-17
Revenue Receivable	1,872.23	2,142.03
Percentage of Debt allowed	2.00%	2.00%
Provision for Bad Debts	37.44	42.84

8.15 OTHER INCOME

Other income includes non tariff income such as interest on loans and advances to employees, income from fixed rate investment deposits, interest on loans and advances to licensees and other miscellaneous income from retail sources. Summary of other income is given below beginning with figure from provisional estimates of FY 2014-15. The amount for FY 2015-16 and 2016-17 has been projected to grow at the rate of inflation index from the actuals of FY 2013-14.

Table 8-19: Other Income (Rs Crore)

Particulars	FY 2014-15	FY 2015-16	FY 2016-17
Total	7.65	7.32	7.39

8.16 REASONABLE RETURN / RETURN ON EQUITY

The Regulation 4.10 of Distribution Tariff Regulations 2006 provides for RoE @16% on equity base. The relevant extract of the regulations are as under:

1. Return on equity shall be allowed @16%, on the equity base determined in accordance with regulation 4.7. However, the Commission may reduce/raise the rate of return subject to performance of the distribution licensee vis-à-vis performance benchmarks set by the Commission.
2. Equity invested in foreign currency shall be allowed a return up to the prescribed limit in the same currency and the payment on this account shall be made in Indian Rupees based on the prevailing exchange rate.
3. The premium raised by the distribution licensee while issuing share capital and investment of internal resources created out of free reserves, if any, for the funding of the project,

shall also be reckoned as paid up capital for the purpose of computing return on equity, provided such share capital, premium amount and internal resources are actually utilized for meeting the capital expenditure of the distribution system and forms part of the approved financial package.

4. *Return on equity shall be chargeable from the first year of operation. In case of infusion of equity during the year, return on equity shall be charged on pro-rata basis.*

Under the provisions of the Distribution Tariff 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 that actual equity employed is less than 30%, actual debt and equity shall be considered for determination of tariff.

The Petitioner submits that there is huge under recovery in the distribution segment. Any claim towards return on equity would further increase the gap and put extra burdens on the consumers. Thus the Petitioner does not seek any return on equity.

8.17 CONTRIBUTION TO CONTINGENCY RESERVE

The Distribution Tariff Regulations provides for contribution to the contingency reserves upto 0.5% of opening GFA to be included in the ARR of a distribution licensee. The contingency reserve so created shall be utilized to meet cost of replacement of equipment damaged due to force majeure situations. Distribution Tariff Regulations require that such Contingency Reserve shall be invested in Government securities. However, the use of such reserve is only with the prior permission of the Hon'ble Commission.

The Petitioner submits that 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 the present ARR, the Petitioner is not claiming any allowance under Reserve for Contingency Reserve.

8.18 APPORTIONMENT OF O&M EXPENSES AND INTEREST & FINANCE CHARGES OF UPPCL

The Hon'ble Commission in the FY 2012-13 tariff order had directed the distribution companies to consider the apportionment of the O&M expenses of UPPCL and submit the share of each discom.

Accordingly, the O&M expenses of UPPCL for FY 2014-15 as per provisional accounts have been considered as base expenses and the same have been escalated in FY 2014-15 and 2015-16 based on the escalation indices for each year.

Considering the above, the same have also been apportioned to all the discoms including the Petitioner in the power purchase ratio for each relevant year. The share of apportionment of O&M charges of UPPCL for FY 2015-16 is Rs. 5.89 crore and Rs. 6.06 crore for FY 2016-17. Accordingly the same have been considered as part of ARR to be recovered from retail consumers.

It is also pertinent to mention that the UPPCL resorts to short term borrowings on behalf of distribution companies to meet the power purchase liabilities of discoms. It incurs interest expenses on behalf of such working capital loans. Also it incurs expenditure towards LC and OD charges incidental to power purchase expenses. It is humbly prayed that the Hon'ble Commission may consider these expenses and allow UPPCL to claim such expenses from the Petitioner and other distribution companies through an internal adjustment without any impact on the ARR of the Petitioner.



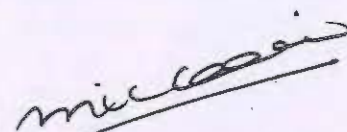
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8.19 ARR SUMMARY

The Consolidated Retail & Wheeling Business of ARR along with revenue gap for FY 2016-17 at current tariff is summarized in the table below.

Table 8-20: Annual Revenue Requirement for FY 2016-17 (Rs Crore)

Particulars	FY 2014-15 Actuals as per Provisional Accounts	FY 2015-16 Revised Estimates	FY 2016-17 ARR
Power Purchase Expenses	1,531.94	1,526.96	1,770.85
Allocation of UPPCL O&M Expenses	6.96	5.89	6.06
Transmission Charges	67.72	62.47	81.36
Employee Expenses	99.42	116.28	118.77
Repair and Maintenance Expenses	51.18	51.84	53.05
A&G Expenses	42.58	60.14	61.33
Gross Interest on Long Term Loans	265.00	6.84	18.56
Interest on Electricity Duty	-	-	-
Interest to Consumer	9.17	10.09	9.85
Finance Charges	0.44	0.46	0.46
Interest on Working Capital	-	25.45	30.44
Discount to Consumers	-	-	-
Depreciation	12.11	44.61	39.59
Prior Period Expenses	(1.56)	-	-
Other Misc Expenses / Incomes	-	-	-
Provision for Bad and Doubtful Debts	8.63	37.44	42.84
Gross Expenditure	2,093.57	1,948.46	2,233.17
Less: Employee Capitalisation	1.41	17.44	17.82
Less: A&G Capitalisation	0.03	9.02	9.20
Less: Interest Capitalisation	-	5.26	14.29
Total Capitalisation	1.44	31.73	41.31
Net Expenditure	2,092.13	1,916.74	2,191.86
Add: Return on Equity	-	-	-
Less: Non-tariff Incomes	7.65	7.32	7.39
Add: Efficiency Gains	-	-	-
Annual Revenue Requirement	2,084.47	1,909.42	2,184.47
Revenue from Tariff incl DPS	1,689.24	1,872.23	2,142.03
Net Revenue Gap	395.23	37.19	42.44



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8.20 RETAIL AND WHEELING BUSINESS ARR SUMMARY

Clause 2.1(2) & (3) of the Distribution Tariff 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.

The Petitioner humbly submits that complete segregation of account between wheeling and retail supply has still not taken place, therefore the Petitioner has adopted the basis of allocation of the expenses in line with the methodology used by the Hon'ble Commission in its last Tariff Order.

Allocations of Consolidated ARR into wheeling & retail supply for FY 2016-17 have been estimated into following table:

Table 8-21: Wheeling and Retail Supply – ARR FY 2016-17 (Rs Crore)

Particulars (Rs Crore)	Allocation %		Allocation FY 2016-17		
	Wheeling	Supply	Wheeling	Supply	Total
Power Purchase Expenses	0%	100%	-	1,770.85	1,770.85
Transmission Charges	0%	100%	-	81.36	81.36
Employee Cost	60%	40%	71.26	47.51	118.77
A&G Expenses	40%	60%	24.53	36.80	61.33
R&M Expenses	90%	10%	47.75	5.31	53.05
Interest Charges	90%	10%	53.37	5.93	59.30
Depreciation	90%	10%	35.63	3.96	39.59
Apportionment of O&M Expenses & Interest & Finance Charges of UPPCL	0%	100%	-	6.06	6.06
Gross Expenditure			232.55	1,957.77	2,190.33
Expenses Capitalization					-
<i>Employee Cost Capitalized</i>	60%	40%	10.69	7.13	17.82
<i>Interest Capitalized</i>	90%	10%	12.86	1.43	14.29
<i>A&G Expenses Capitalized</i>	40%	60%	3.68	5.52	9.20
Net Expenditure			205.32	1,943.70	2,149.02
Provision for Bad & Doubtful Debts	0%	100%	-	42.84	42.84
Provision for Contingency Reserve	0%	100%	-	-	-
Total Net Expenditure with Provision			205.32	1,986.54	2,191.86
Add: Reasonable Return / Return on Equity	90%	10%	-	-	-
Less: Non Tariff Income	0%	100%	-	7.39	7.39
Annual Revenue Requirement (ARR)			205.32	1,979.15	2,184.47

8.21 WHEELING CHARGES FROM OPEN ACCESS CONSUMERS

Clause 2.1(2) & (3) of the Distribution Tariff 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. The wheeling charge has been computed on overall consolidated discom basis keeping in line with the consistent philosophy of the Hon'ble Commission in past Tariff Orders.

Table 8-22: Wheeling Charges for FY 2016-17

Particulars	KESCO
Net Distribution Wheeling Function ARR	205.32
Retail sales by Discom	3,278.36
Wheeling Charge	0.63

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9. TREATMENT OF REVENUE GAP

The Petitioner would like to humbly submit that the Hon'ble Commission approves tariff which is uniform throughout the state. As a consequence, the Petitioner cannot apply for tariff rationalization in its supply area by separately filing for revision of tariff. The Tariff Order for the FY 2015-16 was issued on 18th June 2015 and the revised retail tariff was implemented after due notification. The Petitioner has evaluated a revenue gap of Rs. 42.44 crore in the ensuing year.

Outlined below is the Revenue Gap for the financial year 2016-17 based on current tariff:

Table 9-1: Meeting the Gap for FY 2016-17 (Rs Crore)

Particulars (Rs Crore)	FY 2016-17
Annual Revenue Requirement	2,184.47
Less: Revenue from Existing Tariff	2,142.03
Revenue Gap for FY 2016-17	42.44

In addition to the above, the revenue gap as per true up petition filed for FY 2013-14 is to the tune of Rs. 104.79 crore. Thus, the total revenue gap which needs to be recovered by the Petitioner from its consumers is to the tune of Rs. 147.23 crore excluding carrying cost as shown in the table below:

Table 9-2: Total Revenue Gap to be dealt with (Rs Crore)

Particulars	KESCO
Revenue Gap as per True up Petition for 2013-14	104.79
Revenue Gap as per ARR for FY 2016-17	42.44
Total	147.23

Additionally, the un-recovered revenue gap towards prior years truing up to the tune of Rs. 717.29 crore was approved by the Hon'ble Commission in the FY 2015-16 tariff order dated 18th June 2015. The same needs to be recovered by the Petitioner along with carrying cost.

Once the decision on the retail tariff revision is taken by all state distribution companies together, given the requirement of uniform tariffs across the state, the Petitioner would, through an additional submission, ratify the applicability of the same rate schedule and would submit the estimates in respect of revenue at proposed tariffs and gap thereafter, if any. However, it is understood that given the significant amount of revenue gap, the whole impact may be not be able to be passed through a revision in retail tariffs, as it may lead to massive tariff shock.

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10. PRAYERS

The petitioner humbly prays that the Hon'ble Commission may be pleased to:

- Admit the accompanying Annual Revenue Requirement for FY 2016-17 and True up Petition for FY 2013-14.
- Approve the Annual Revenue Requirement for FY 2016-17 and True up for FY 2013-14.
- Allow the Petitioner to procure power through bilateral contracts/exchanges/short term contracts to maintain the desired schedule of supply in the state in case the power procurement from long term sources falls short of levels envisaged and accordingly allow the Petitioner to claim FPPCA on such purchases and allow the variations in final trueing up if any balance adjustment remains
- Allow the Petitioner an internal adjustment on account of the power purchase expense and apportionment of the O&M expenses and interest and finance charges incurred by UPPCL (being the Tradeco and holding company of the state distribution companies including the Petitioner) at the year-end, such that full cost recovery is allowed to UPPCL without imposing any impact on the ARR approved by the Hon'ble Commission.
- In the interim till the contracted capacities are finalized, it is humbly prayed that an internal adjustment bill may be allowed to be raised within the subsidiary companies at the year-end so that the transmission utility recovers only its costs and no unjust enrichment is allowed to it, on account of postage stamp tariff method based billing.
- Allow the Petitioner to claim dearness allowance on actual expenditure basis, in case the increase in rate of dearness allowance, announced by the GoUP exceeds the escalation index for the relevant year, as it is an uncontrollable cost.
- Permit the Petitioner to suitably approach the Hon'ble Commission for revision of the O&M expenses upon finalisation of the pay revision of the employees.
- Allow the Petitioner to claim discount to consumers at actuals, based on audited accounts at the time of true up for FY 2015-16.
- Allow carrying cost on the un-recovered gaps at a rate equivalent to rate of interest on working capital.
- Allow the petitioner to add/change / alter / modify this application at a future date.
- Issue any other relief order or direction which the Hon'ble Commission may deem fit.

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**ANNUAL REVENUE REQUIREMENT PETITION
FOR FY 2016-17**

ANNEXURE - 1
Tariff Filing Formats



KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

KANPUR

मि. कोहली
अनिल कुमार कोहली
मुख्य अभियन्ता (स्टार-1)
के.स्को, कानपुर

NAME OF DISTRIBUTION LICENSEE: KANPUR ELECTRICITY COMPANY LTD
FORMATS FOR ARR & TARIFF FILING BY DISTRIBUTION LICENSEES

Summary Formats			
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4	Sheet	S4	Annual Revenue Requirement
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18	Sheet	F5	R&M Expenses
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20	Sheet	F7	Administration & General Expenses
21	Sheet	F8	Statement of Fixed Assets and Depreciation
22	Sheet	F9	Interest & Finance charges
23	Sheet	F9a	Domestic loans, bonds and financial leasing
24	Sheet	F10	Details of Expenses Capitalised
25	Sheet	F11	Other Debits
26	Sheet	F12	Statement of Sundry Debtors & provision for bad & doubtful debtors
27	Sheet	F13	Extraordinary Items
28	Sheet	F14	Net Prior Period Expenses/Income
29	Sheet	F15	Contribution Grants & subsidies towards Capital assets
30	Sheet	F17	Statements of assets not in use
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Performance Formats			
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39	Sheet	P2	Distribution Losses in LT and HT System
44	Sheet	P4	Voltage Profile
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48	Sheet	P8	Billing Periodicity
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 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Profit & Loss Account

Form S1

S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A	Revenue					
1	Revenue from sale of power	1545.24	1545.24	1689.24	1872.23	2142.03
2	Other Non-tariff income	7.04	7.04	7.65	7.32	7.39
3	Revenue subsidies & grants	0.00	0.00	0.00	0.00	0.00
4	Revenue from Bulk Sales to Torrent Power Ltd	0.00	0.00	0.00	0.00	0.00
	Total Revenue or Income	1552.28	1552.28	1696.90	1879.54	2149.42
B	Expenditure*					
1	Purchase of Power from own and State Generating Stations	1663.59	1329.13	1531.94	1526.96	1770.85
2	Purchase of Power from Other Sources					
3	Intra-State Transmission Charges	74.55	61.72	67.72	62.47	81.36
4	Repairs and Maintenance	46.16	46.16	51.18	51.84	53.05
5	Employee costs	103.58	103.58	99.42	116.28	118.77
6	Administration and General expenses	53.59	53.59	42.58	60.14	61.33
7	Net prior period credit charges	(41.37)	(41.37)	(1.56)	0.00	0.00
8	Other Debits, Write-offs	7.05	32.09	8.63	37.44	42.84
9	Extraordinary items (specify items)	0.00	0.00	0.00	0.00	0.00
10	Reasonable Return	0.00	0.00	0.00	0.00	0.00
11	Less: Expenses Capitalized	(1.09)	(1.09)	(1.44)	(26.46)	(27.02)
	Contingency Reserve	0.00	0.00	0.00	0.00	0.00
C	PBDIT	(353.79)	(31.54)	(101.56)	50.88	48.22
D	Less Depreciation and Related debits	17.76	36.80	12.11	44.61	39.59
E	PBIT	(371.55)	(68.33)	(113.67)	6.27	8.62
1	Interest & Finance Charges	302.44	29.23	274.60	42.83	59.30
2	Less: Interest Capitalized	0.00	0.00	0.00	(5.26)	(14.29)
F	Total Interest and Finance Charges	302.44	29.23	274.60	37.57	45.01
G	TOTAL EXPENDITURE	2226.27	1649.84	2085.17	1910.85	2185.80
H	Profit/Loss before Tax	(674.00)	(97.56)	(388.27)	(31.30)	(36.39)
I	Add: Allocation of Interest Charges and O&M of UPPCL	0.00	7.22	6.96	5.89	6.06
J	Add: Efficiency Gains	0.00	0.00	0.00	0.00	0.00
	Subsidy for Operational Loss			236.06		
K	Profit/Loss before Tax	(674.00)	(104.79)	(159.17)	(37.19)	(42.44)

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 मुख्य अभियन्ता (स्टाफ-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Balance Sheet						Form No: S2
S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
I.	SOURCES OF FUNDS					
	A) Shareholders' Funds					
	a) Share Capital					
	b) Reserves and Surplus					
	B) Special Appropriation allowed towards Project Cost					
	C) Loan Funds					
	a) Short Term Borrowings					
	b) Long Term Borrowings					
	D) Other sources of Funds					
	a) Capital contributions from consumers					
	b) Consumers' Security Deposits					
	c) Grants & Subsidies towards cost of capital					
	TOTAL SOURCES OF FUNDS (A+B+C+D)					
II.	APPLICATION OF FUNDS					
	A) Fixed Assets					
	a) Gross Block					
	less: Accumulated Depreciation					
	b) Net Block					
	c) Capital Work in Progress					
	less: Assets written off till date					
	B) Investments (provide details separately)					
	C) Current Assets, Loans and Advances					
	i) Inventories					
	ii) Sundry Debtors					
	iii) Cash and Bank Balances					
	iv) Loans & Advances					
	iii) Other Current Assets					
	D) less: Current Liabilities and other Provisions					
	i) Current Liabilities					
	ii) Provisions					
	E) Net Current Assets					
	F) Miscellaneous Expenditure to the extent not written off or adjusted					
	TOTAL APPLICATION OF FUNDS					

The Hon'ble Commission in the True up Order for FY 2008-09 to FY 2011-12 dated 01st October, 2014 and True up order for FY 2012-13 dated 18th June 2015 had adopted a normative tariff approach towards capital structure. This entailed that regulatory balances towards equity, GFA, accumulated depreciation, loans, etc would be different from financial statements. Hence, Forms S2, S3 and F19 have become infrutuous as they would not match with financial statements. Considering the above, the Licensee seeks waiver from filing the Form Nos S2, S3 and F19.

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 के.स्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Cash Flow Statement

Form No: S3

S.No	Particulars	FY 2013-14 Audited	FY 2014-15 Provisional Accounts	FY 2015-16 Revised Estimates	FY 2016-17 ARR
A	Net Funds from Operations:				
	Net (loss)/ profit before tax but after exceptional/ extra ordinary items				
	Adjustments for :				
	Depreciation and amortization				
	Interest expenses				
	Income from Investments				
	(Profit) / Loss on fixed asset sold				
	Miscellaneous expenditures written off				
	Deferred revenue expenditure written off				
	Debts/advances written off				
	Provision for bad and doubtful debts				
	Liability no longer required written back				
	Provision for Gratuity and Leave Encashment				
	Exceptional/ Extraordinary items Expenses/ (income)				
	Diminution in value of investments				
	Operating profits before working capital changes				
	Adjustment for changes in working capital				
	(Increase)/ decrease in sundry debtors				
	(Increase)/ decrease in other receivables				
	(Increase)/ decrease in inventories				
	Increase /(decrease) in in trade and other payables				
	Cash generated from operations				
	Taxes (paid)/ received (net of TDS)				
	Net cash from operating activities				
B	Case flow from investing activities				
	Purchase of fixed assets:				
	Additions during the period				
	Capital work in progress:				
	Additions during the period				
	Proceeds from sale of fixed assets				
	Proceeds from sale of investments				
	Purchase of investments				
	Interest received (revenue)				
	Net cash used in investing activities				
C	Cash flow from financing activities				
	Proceeds/(Repayments) of long term borrowings (net)				
	Equity from GoUP				
	Proceeds from consumers contribution and GoUP capital subsidy				
	Capital contribution from consumers and GoUP capital subsidy diminished				

The Hon'ble Commission in the True up Order for FY 2008-09 to FY 2011-12 dated 01st October, 2014 and FY 2012-13 dated 18th June 2015 had adopted a normative tariff approach towards capital structure.

This entailed that regulatory balances towards equity, GFA, accumulated depreciation, loans, etc would be different from financial statements. Hence, Forms S2, S3 and F19 have become infrutuous as they would not match with financial statements. Considering the above, the Licensee seeks waiver from filing the Form Nos S2, S3 and F19.

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 के.सं.को. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Cash Flow Statement

Form No: S3

S.No	Particulars	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	Provisional Accounts	Revised Estimates	ARR
	Consumer security deposits				
	Repayment of borrowing				
	Interest paid on borrowing				
	Interest payment adjustment				
	Restructuring reserve relating to transfer scheme 2000/2003				
	Material cost variance adjustments				
	Adjustment relating to Uttaranchal Power Corporation Limited				
	Net cash generated from financing activities				
	Net increase / (decrease) in cash or cash equivalent (A+B+C)				
	Cash/ Cash equivalent as at the beginning of the year				
	Cash/ Cash equivalent as at the end of the year				

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Annual Revenue Requirement

Form No: S4

S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
	Power Purchase or Energy Available (MU)	3,554.39	3,554.39	3,490.81	3,619.54	4,203.02
	Sale of Power (MU)	2,458.09	2,458.09	2,581.75	2,768.95	3,278.36
	Loss %	30.84%	30.84%	26.04%	23.50%	22.00%
1	Receipts					
a	Revenue from tariffs & Miscell. Charges (incl bulk sales to TPL)	1,545.24	1,545.24	1,689.24	1,872.23	2,142.03
b	Subsidy from Govt.	-	-	-	-	-
c	Torrent power ltd					
	Total	1,545.24	1,545.24	1,689.24	1,872.23	2,142.03
2	Expenditure					
a	Purchase of Power	1,663.59	1,329.13	1,531.94	1,526.96	1,770.85
b	Purchase of Power from Other Sources					
c	Intra-State Transmission Charges	74.55	61.72	67.72	62.47	81.36
d	R&M Expense	46.16	46.16	51.18	51.84	53.05
e	Employee Expenses	103.58	103.58	99.42	116.28	118.77
f	A&G Expense	53.59	53.59	42.58	60.14	61.33
g	Depreciation	17.76	36.80	12.11	44.61	39.59
h	Interest & Finance Charges	302.44	29.23	274.60	42.83	59.30
i	Less: Interest & other expenses capitalised	1.09	1.09	1.44	31.73	41.31
j	Other Debits (incl. Prov for Bad debts)	7.05	32.09	8.63	37.44	42.84
k	Extraordinary Items(OTS)	-	-	-	-	-
l	Other (Misc.)-net prior period credit	- 41.37	- 41.37	- 1.56	-	-
	Total	2,226.27	1,649.84	2,085.17	1,910.85	2,185.80
3(i)	Reasonable Return	-	-	-	-	-
3(ii)	Contingency Reserve					
4	Non tariff income	7.04	7.04	7.65	7.32	7.39
5	Annual Revenue Requirement (2)+(3)-(4)	2,219.24	1,642.80	2,077.51	1,903.53	2,178.42
6	Surplus(+) / Shortfall(-) : (1)-(5) before tariff revision	(674.00)	(97.56)	(388.27)	(31.30)	(36.39)
7	Add: Allocation of Interest Charges and O&M of UPPCL		7.22	6.96	5.89	6.06
8	Efficiency Gains	0.00	0.00	0.00	0	0
9	Surplus(+) / Shortfall(-) : (1)-(5) before tariff revision	(674.00)	(104.79)	(395.23)	(37.19)	(42.44)
10	Tariff Revision Impact	-	-	-	-	-
	Subsidy for Operational Loss			236.0561		
11	Surplus(+) / Shortfall(-) : (6)-(7) after tariff revision	(674.00)	(104.79)	(159.17)	(37.19)	(42.44)

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.					
Information regarding amount of Equity & Loan				Form No: S5	
		FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
Sr. No.	Period	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Amt. of Regulatory Equity (Rs. in crores)	163.15	163.15	223.04	278.32
2	Amt. of Regulatory Loan (Rs. in crores)	2,865.19	2.92	103.08	184.69
3	Debt Equity Ratio	1756%	2%	46%	66%

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Information regarding Working Capital

Form No: S6

Sr. No.	Particulars	FY 2013-14 True-Up	FY 2014-15 Provisional Accounts	FY 2015-16 Revised Estimates	FY 2016-17 ARR
1	One month's O & M Expenses	16.94	16.10	19.02	19.43
2	One-twelfth of the sum of the book value of materials in stores at the end of each month of such financial year.	2.52	2.39	1.42	1.42
3	Receivables equivalent to 60 days average billing on consumers	254.01	277.68	307.76	352.11
	Gross Total	273.48	296.17	328.20	372.96
Less:					
1	Total Security Deposits by the Consumers reduced by Security Deposits under section 47(1)(b) of the Electricity Act 2003	104.45	112.86	124.61	129.48
	Net Working Capital	169.03	183.31	203.59	243.48
	Rate of Interest on Working Capital	12.50%	12.50%	12.50%	12.50%
	Normative Interest on Working Capital	21.13	22.91	25.45	30.44

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Reasonable Return

Form No: S7

S.No	Particulars	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		True-Up	Provisional Accounts	Revised Estimates	ARR
	Shareholders' Funds				
1	Share Capital	163.15	163.15	223.04	278.32
2	Reserves and Surplus	-3,170.27	-3,307.99	-3,345.18	-3,387.63
	Total Equity	-3,007.12	-3,144.84	-3,122.14	-3,109.30
	Return as a % of Equity				

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Energy Balance					Form No: S8	
S.No	Particulars	FY 2013-14 Audited	FY 2013-14 True-Up	FY 2014-15 Provisional Accounts	FY 2015-16 Revised Estimates	FY 2016-17 ARR
1	Purchase of Power					
	Power from own Stations (if any)	3,554.39	3,554.39	3,490.81	3,619.54	4,203.02
	Power from State Stations					
	Power from Central Stations					
	Power from Other Sources					
	I.					
	ii.					
	iii.					
	Total Power Available	3,859.76	3,859.76	3,620.80	3,757.43	4,363.15
2	Energy Sales within the state					
	a) LT Sales					
	b) HT Sales					
	c) EHT Sales					
	Total Energy Sales	2,458.09	2,458.09	2,581.75	2,768.95	3,278.36
3	Distribution Loss	30.84%	30.84%	26.04%	23.50%	22.00%
4	Total Transmission losses	7.91%	7.91%	3.59%	3.67%	3.67%
5	Tradable Power	3,554.39	3,554.39	3,490.81	3,619.54	4,203.02

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Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Truing Up of past accounts

Form No: S9

S.No	Particulars	FY 2013-14		
		Tariff Order	Audited	True-up
	Power Purchase or Energy Available (MU)	3,550.76	3,554.39	3,554.39
	Sale of Power (MU)	2,549.91	2,458.09	2,458.09
	Loss %	28.19%	30.84%	30.84%
1	Receipts			
a	Revenue from tariffs & Miscell. Charges	1402.33	1545.24	1545.24
b	Subsidy from Govt.	0.00	0.00	0.00
	Total	1402.33	1545.24	1545.24
2	Expenditure			
a	Purchase of Power	1370.93	1663.59	1329.13
b	Purchase of Power from Other Sources			
c	Intra-State Transmission Charges	47.14	74.55	61.72
d	R&M Expense	53.01	46.16	46.16
e	Employee Expenses	127.29	103.58	103.58
f	A&G Expense	8.23	53.59	53.59
g	Depreciation	32.55	17.76	36.80
h	Interest & Finance Charges	32.70	302.44	29.23
i	Less: Interest & other expenses capitalised	-21.16	-1.09	-1.09
j	Other Debits (incl. Prov for Bad debts)	0.00	7.05	32.09
k	Extraordinary Items	0.00	0.00	0.00
l	Other (Misc.)-net prior period credit	0.00	-41.37	-41.37
m	Allocation of UPPCL Charges	0.00	0.00	7.22
n	Efficiency Gains	0.00	0.00	0.00
	Total	1650.69	2226.27	1657.07
3	Reasonable Return	0.00	0.00	0.00
4	Other Income	5.65	7.04	7.04
5	Annual Revenue Requirement (2)+(3)-(4)	1645.04	2219.24	1650.03
6	Surplus(+) / Shortfall(-) : (1)-(5) before tariff revision	-242.71	-674.00	-104.79
7	Tariff Revision Impact			
8	Surplus(+) / Shortfall(-) : (6)-(7)after tariff revision	-242.71	-674.00	-104.79

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 कैस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Billing Determinants: Projected Consumer Numbers, Connected Load & Total Sale: FY 2014-15

Form No: F1(a1)

SUPPLY TYPE	CATG.	KESCO FY 2014-15	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV-1	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-
	(C1)	Other Metered Domestic Consumers	4,38,484	10,29,413	1,250
	(C2)	Life Line Consumers/BPL	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	4,38,484	10,29,413	1,250
LMV-2	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-	-	1
	(C)	Other Metered Non-Domestic Supply	73,262	2,15,187	251
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	73,262	2,15,187	251
LMV-3	(A)	Un-metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	18	14,117	51
	(B)	Metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	18	14,117	51
LMV-4	(A)	Public Institution(4 A)	594	10,854	34
	(B)	Private Institution(4 B)	152	2,728	5
SUB TOTAL		LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	746	13,582	39
LMV-5	(A)	Rural Schedule			
	(i)	Un metered Supply	-	-	-
	(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule			
	(i)	Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-
LMV-6	(A)	Small & Medium Power (Power Loom)			
	(i)	Rural Schedule	-	-	-
	(ii)	Urban Schedule	1,121	18,169	4
	(B)	Small & Medium Power			
	(i)	Rural Schedule	-	-	1
	(ii)	Urban Schedule	7,793	94,471	251
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	8,914	1,12,640	255
LMV-7	(A)	Rural Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	-	-	-
	(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	526	20,505	48
	(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	526	20,505	48
LMV-8	(A)	Metered Supply	-	-	-
	(B)	Un-metered Supply			
	(i)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	-	-	-
	(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-
LMV-9	(A)	Metered Supply			
	(i)	Individual Residential Consumers	-	-	-
	(ii)	Others	-	-	-
	(B)	Un-metered Supply			
	(i)	Ceremonies	-	-	-
	(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)	-	-	-
LMV-10	(A)	Serving			
	(i)	Class IV Employees	-	-	-
	(ii)	Class III Employees	1,759	5,277	4
	(iii)	Junior Engineers & Equivalent	-	-	-
	(iv)	Assistant Engineers & Equivalent	-	-	-
	(v)	Executive Engineers & Equivalent	-	-	-
	(vi)	Deputy General Manager & Equivalent	-	-	-
	(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner	1,587	4,761	13
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	3,346	10,038	17
HV-1	(A)	Urban Schedule			
	(i)	For supply at 11kV	158	47,278	86
	(ii)	For supply at 33 kV & above	9	17,983	53

महेश कुमार काहलो
उप निदेशक (सार-1)
के.स.को. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Billing Determinants: Projected Consumer Numbers, Connected Load & Total Sale: FY 2014-15

Form No: F1(a1)

SUPPLY TYPE	CATG.	KESCO FY 2014-15	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HIV-1)	167	65,261	139
HV--2	(A)	Urban Schedule			
	(i)	For supply at 11kV	566	1,32,612	215
	(ii)	For supply above 11kV and upto & Including 66kV	4	33,400	63
	(iii)	For supply above 66kV and upto & Including 132kV	2	43,000	255
	(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	572	2,09,012	533
HV--3	(A)	For supply at and above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Delhi Metro Rail	-	-	-
SUB TOTAL		RAILWAY TRACTION (HIV-3)	-	-	-
HV--4	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK	(A)	Torrent (Depicted as Retail Sales)	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
		GRAND TOTAL	5,26,035	16,89,755	2,582

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 वीरको, कानपुर

SUPPLY TYPE	CATG.	KESCO FY 2015-16	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV-1	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-
	(C1)	Other Metered Domestic Consumers	4,73,563	11,11,766	1,520
	(C2)	Life Line Consumers/BPL	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	4,73,563	11,11,766	1,520
LMV-2	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-	-	-
	(C)	Other Metered Non-Domestic Supply	62,600	1,83,870	220
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	62,600	1,83,870	220
LMV-3	(A)	Un-metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	18	14,117	61
	(B)	Metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	18	14,117	61
LMV-4	(A)	Public Institution(4 A)	624	11,397	45
	(B)	Private Institution(4 B)	161	3,095	7
SUB TOTAL		LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	785	14,492	53
LMV-5	(A)	Rural Schedule			
	(i)	Un metered Supply	-	-	-
	(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule			
	(i)	Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-
LMV-6	(A)	Small & Medium Power (Power Loom)			
	(i)	Rural Schedule	-	-	-
	(ii)	Urban Schedule	1,132	18,351	-
	(B)	Small & Medium Power			
	(i)	Rural Schedule	-	-	-
	(ii)	Urban Schedule	8,183	99,195	270
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	9,315	1,17,545	270
LMV-7	(A)	Rural Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	-	-	-
	(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	531	17,893	42
	(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	531	17,893	42
LMV-8	(A)	Metered Supply	-	-	-
	(B)	Un-metered Supply			
	(i)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	-	-	-
	(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-
LMV-9	(A)	Metered Supply			
	(i)	Individual Residential Consumers	-	-	-
	(ii)	Others	-	-	-
	(B)	Un-metered Supply			
	(i)	Ceremonies	-	-	-
	(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)	-	-	-
LMV-10	(A)	Serving			
	(i)	Class IV Employees	-	-	-
	(ii)	Class III Employees	1,759	97,708	4
	(iii)	Junior Engineers & Equivalent	-	-	-
	(iv)	Assistant Engineers & Equivalent	-	-	-
	(v)	Executive Engineers & Equivalent	-	-	-
	(vi)	Deputy General Manager & Equivalent	-	-	-
	(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner	1,587	29,514	13
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	3,346	1,27,222	17
HV-1	(A)	Urban Schedule			
	(i)	For supply at 11kV	161	48,224	88
	(ii)	For supply at 33 kV & above	9	18,163	53
	(B)	Rural Schedule			

अनिल कुमार कोडली

मुख्य अभियन्ता (स्तर-1)

केरको, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Billing Determinants: Projected Consumer Numbers, Connected Load & Total Sale: FY 2015-16

Form No: F1(a2)

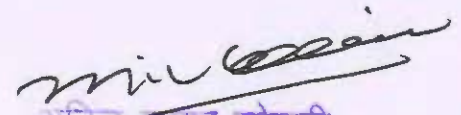
SUPPLY TYPE	CATG.	KESCO FY 2015-16	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	170	66,386	142
HV--2	(A)	Urban Schedule			
	(i)	For supply at 11kV	577	1,35,264	297
	(ii)	For supply above 11kV and upto & Including 66kV	4	33,734	79
	(iii)	For supply above 66kV and upto & Including 132kV	2	43,430	69
	(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	583	2,12,428	445
HV--3	(A)	For supply at and above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Delhi Metro Rail	-	-	-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-
HV--4	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK	(A)	Torrent	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
GRAND TOTAL			5,50,911	18,65,720	2,769

anil kumar
 अनिल कुमार खोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

SUPPLY TYPE	CATG.	KESCO FY 2016-17	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
LMV-1	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Supply at Single Point for Bulk Load	-	-	-
	(C1)	Other Metered Domestic Consumers	5,11,448	12,00,707	1,939
	(C2)	Life Line Consumers/BPL	-	-	-
SUB TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	5,11,448	12,00,707	1,939
LMV-2	(A)	Consumer getting supply as per "Rural Schedule"			
	(i)	Un-metered	-	-	-
	(ii)	Metered	-	-	-
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	-	-	-
	(C)	Other Metered Non-Domestic Supply	53,489	1,57,111	222
SUB TOTAL		NON DOMESTIC LIGHT FAN & POWER (LMV-2)	53,489	1,57,111	222
LMV-3	(A)	Un-metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	18	14,117	61
	(B)	Metered Supply			
	(i)	Gram Panchyat	-	-	-
	(ii)	Nagar Palika & Nagar Panchyat	-	-	-
	(iii)	Nagar Nigam	-	-	-
SUB TOTAL		PUBLIC LAMPS (LMV-3)	18	14,117	61
LMV-4	(A)	Public Institution(4 A)	655	11,967	56
	(B)	Private Institution(4 B)	171	3,281	9
SUB TOTAL		LIGHT, FAN & POWER FOR PUB./PRIV. INST.(LMV-4)	826	15,248	65
LMV-5	(A)	Rural Schedule			
	(i)	Un metered Supply	-	-	-
	(ii)	Metered Supply	-	-	-
	(B)	Urban Schedule			
	(i)	Metered Supply	-	-	-
SUB TOTAL		PRIVATE TUBE WELL/PUMPING SETS (LMV-5)	-	-	-
LMV-6	(A)	Small & Medium Power (Power Loom)			
	(i)	Rural Schedule	-	-	-
	(ii)	Urban Schedule	1,144	18,534	-
	(B)	Small & Medium Power			
	(i)	Rural Schedule	-	-	-
	(ii)	Urban Schedule	8,592	1,04,154	334
SUB TOTAL		SMALL & MEDIUM POWER UPTO 100 HP (75) (LMV-6)	9,735	1,22,688	334
LMV-7	(A)	Rural Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	-	-	-
	(iii)	Others (Water Works)	-	-	-
	(B)	Urban Schedule			
	(i)	Jal Nigam	-	-	-
	(ii)	Jal Sansthan	537	18,072	43
	(iii)	Others (Water Works)	-	-	-
SUB TOTAL		PUBLIC WATER WORKS(LMV-7)	537	18,072	43
LMV-8	(A)	Metered Supply	-	-	-
	(B)	Un-metered Supply			
	(i)	STW,Panchayat Raj WB I.Duch P.C, L I upto 100 BHP	-	-	-
	(ii)	Laghu Dal Nahar above 100 BHP	-	-	-
SUB TOTAL		STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	-	-	-
LMV-9	(A)	Metered Supply			
	(i)	Individual Residential Consumers	-	-	-
	(ii)	Others	-	-	-
	(B)	Un-metered Supply			
	(i)	Ceremonies	-	-	-
	(ii)	Temporary Shops	-	-	-
SUB TOTAL		TEMPORARY SUPPLY (LMV-9)	-	-	-
LMV-10	(A)	Serving			
	(i)	Class IV Employees	-	-	-
	(ii)	Class III Employees	1,759	97,708	5
	(iii)	Junior Engineers & Equivalent	-	-	-
	(iv)	Assistant Engineers & Equivalent	-	-	-
	(v)	Executive Engineers & Equivalent	-	-	-
	(vi)	Deputy General Manager & Equivalent	-	-	-
	(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)	Total Pensioner & Family Pensioner	1,587	29,514	14
SUB TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10)	3,346	1,27,222	19
HV-1	(A)	Urban Schedule			
	(i)	For supply at 11kV	164	49,188	90
	(ii)	For supply at 33 kV & above	9	18,344	54
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply at 33 kV & above	-	-	-
SUB TOTAL		NON INDUSTRIAL BULK LOADS (HV-1)	174	67,532	144

मि. अमित कुमार कोहली
अमित कुमार कोहली
के.के. कोहली (सर-1)
के.के. कोहली

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.					
Billing Determinants: Projected Consumer Numbers, Connected Load & Total Sale: FY 2016-17				Form No: FI(a3)	
SUPPLY TYPE	CATG.	KESCO FY 2016-17	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
HV--2	(A)	Urban Schedule			
	(i)	For supply at 11kV	589	1,37,970	303
	(ii)	For supply above 11kV and upto & Including 66kV	4	34,071	79
	(iii)	For supply above 66kV and upto & Including 132kV	2	43,864	70
	(iv)	For supply above 132kV	-	-	-
	(B)	Rural Schedule			
	(i)	For supply at 11kV	-	-	-
	(ii)	For supply above 11kV and upto & Including 66kV	-	-	-
SUB TOTAL		LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	595	2,15,905	452
HV--3	(A)	For supply at and above 132kV	-	-	-
	(B)	For supply below 132kV	-	-	-
	(C)	For Delhi Metro Rail	-	-	-
SUB TOTAL		RAILWAY TRACTION (HV-3)	-	-	-
HV--4	(A)	For supply at 11kV	-	-	-
	(B)	For supply above 11kV and upto 66kV	-	-	-
	(C)	For supply above 66kV and upto 132kV	-	-	-
SUB TOTAL		LIFT IRRIGATION & P C ABOVE 100 BHP (75kW) (HV-4)	-	-	-
EXTRA STATE	(A)	EXTRA STATE & OTHERS	-	-	-
SUB TOTAL		EXTRA STATE CONSUMERS	-	-	-
BULK	(A)	Torrent	-	-	-
	(B)	KESCO	-	-	-
SUB TOTAL		BULK SUPPLY	-	-	-
GRAND TOTAL			5,80,167	19,38,603	3,278


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 कौस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Form No: F2

Revenue & Capital Subsidies

S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A	Revenue Subsidies And Grants					
1	Revenue Subsidy					
2	Agriculture Subsidy	-	-	-	-	-
3	Subsidy adjustment against ED					
4						
5	Subsidy for Power Looms					
	Sub-Total	-	-	-	-	-
B	Capital Subsidies And Grants					
1	APDRP					
2	PTW					
3	UPSIDC					
4	Indian Industries Association					
5	Others					
	Sub-Total	-	-	-	-	-
	Total	-	-	-	-	-
S.No	Actual Flow of Funds	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
	In Rs Crores	Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Balance Subsidy for Previous years Receivable					
2	Subsidy Due for the year	-	-	-	-	-
3	Total Subsidy Receivable	-	-	-	-	-
4	Cash	-	-	-	-	-
5	ED Adjustment/Retained	-	-	-	-	-
6	Cess Adjustment/Retained					
7	Central Assistance Adjustment					
8	Adjustment of Penal intt on ED & Cess					
9	Adjustment of Past Loans					
10	Adjustment of Interest on Loan					
11	Total Subsidy Received	-	-	-	-	-
12	Balance Subsidy Receivable: (3)-(12)	-	-	-	-	-

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

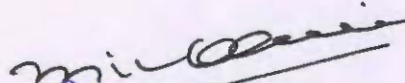
Form No: F3

Income from Investments and Non-Tariff Income

S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A	Income from Investment					
1	Interest Income from Investments					
2	Interest on fixed deposits	2.10	2.10	4.19	4.00	4.04
3	Interest from Banks other than Fixed Deposits					
4	Interest on (any other items)					
	Sub-Total (A)	2.10	2.10	4.19	4.00	4.04
B	Non Tariff Income					
1	Interest on loans and Advances to staff	0.13	0.13	0.10	0.10	0.10
2	Interest on Loans and Advances to Licensee					
3	Interest on Loans and Advances to Lessors					
4	Interest on Advances to Suppliers / Contractors	1.03	1.03	0.79	0.76	0.76
5	Subsidy for Interest Payment					
6	Gain on Sale of Fixed Assets					
7	Miscellaneous receipts	-	-	-	-	-
8	Delayed payment charges from consumers					
9	Meter Rent					
10	Recovery from theft of energy					
11	Wheeling charges					
12	Misc. charges from consumers	3.77	3.77	2.57	2.46	2.48
13	Income from Other Business					
14	Contract Demand Violation Charges					
15	Less: Rebate for supply at higher voltage					
16	Less: Any other rebates					
	Sub-Total (B)	4.93	4.93	3.46	3.31	3.34
	Total	7.04	7.04	7.65	7.32	7.39

m. k. sharma
 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.										Form No: F4a					
Details of Monthly Electricity Purchases from different Generating Stations - FY 2014-15															
MONTH	Plant Capacity	UTILITY'S SHARE		Availability of Generating Station	Total Fixed or Capacity Charges	ESO by Generator	Energy Share to be received by the utility (Deducting auxiliary consumption)	Energy Units received by utility at its periphery (After deducting inter state/intra state transmission losses)	Fixed or Capacity charges to be paid by the utilities	Var Charges/Energy Charges to be paid by the utilities	Incentive to generating stations (if any)	Transmission /Wheeling Charges (inter state/intra state)	Any other charges	Avg cost of energy at gen bus bar	Avg cost of energy recd at interface point of the utility
	MW	MW	%		Rs Cr	MU	MU	MU	p/u	p/u	p/u	p/u	p/u	p/u	p/u
1	2	3	4		5	6	7	9	10	11	12	13	14	15	16
April															
May															
June															
July															
August															
September															
October															
November															
December															
January															
February															
March															
TOTAL								3490.81							
Arrear Bills for the past period due to revision of energy account/ tariff revision															
Total Cost															


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्त-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.									
Details of Monthly Electricity Purchases from different Generating Stations - FY 2015-16							Form No: F4a		
Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average Cost
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Procurement of power from State Sector Generating Stations									
Thermal Stations									
Anpara A	630	3,862	0.72	277	2.04	786	2.75	1,064	2.75
Anpara B	1,000	7,213	1.09	786	1.88	1,354	2.97	2,140	2.97
Harduaganj	165	301	1.52	46	3.52	106	5.03	151	5.03
Obra A	288	535	1.21	65	2.46	131	3.67	196	3.67
Obra B	1,000	3,966	0.69	272	2.31	916	3.00	1,189	3.00
Panki	210	647	1.41	91	4.36	282	5.77	374	5.77
Parichha	220	427	1.04	44	4.22	180	5.26	225	5.26
Parichha Extn.	420	2,258	1.44	325	3.46	781	4.90	1,106	4.90
Parichha Extn. Stage II	500	3,397	1.85	630	3.45	1,173	5.30	1,802	5.30
Harduaganj Ext.	500	3,397	2.02	688	2.72	925	4.75	1,612	4.75
Anpara D	1,000	823	1.51	124	1.70	140	3.21	264	3.21
Sub total - Thermal	5,933	26,828	0.00	3,348	0.00	6,775	0.00	10,124	3.77
Per unit Avg Rate of Thermal Generation								3.77	
Hydro Stations									
Khara	58	151	0.75	11	0.00	-	0.75	11	0.75
Matatila	20	53	0.68	4	0.00	-	0.68	4	0.68
Obra (Hydel)	99	260	0.66	17	0.00	-	0.66	17	0.66
Rihand	255	670	0.57	38	0.00	-	0.57	38	0.57
UGC Power Stations	14	36	2.22	8	0.00	-	2.22	8	2.22
Belka & Babail	6	16	2.34	4	0.00	-	2.34	4	2.34
Sheetla	4	9	2.84	3	0.00	-	2.84	3	2.84
Sub total - Hydro	455	1,195		85		-		85	0.71
Purchase Per unit Avg Rate from hydro generating stations								0.71	
Sub-Total Own generation	6388	28023		3,433.14		6,775.17		10,208.30	3.64
Procurement of power from Central Sector Generating Stations									
Anta	119	626	0.71	44	4.44	278	5.15	322	5.15
Auriya	243	1,279	0.53	68	4.84	618	5.37	687	5.37
Dadri Thermal	84	613	0.82	50	3.97	243	4.79	294	4.79
Dadri Gas	271	1,427	0.55	78	4.38	625	4.93	703	4.93
Dadri Extension	148	1,055	1.55	164	3.54	373	5.09	537	5.09
Rihand-I	372	2,697	0.78	211	2.00	538	2.78	750	2.78
Rihand-II	346	2,791	0.91	254	1.87	522	2.78	776	2.78
Singrauli	846	6,687	0.52	347	1.28	856	1.80	1,204	1.80
Tanda	440	3,255	1.01	330	3.55	1,155	4.56	1,484	4.56
Unchahar-I	257	2,009	0.83	167	2.82	566	3.65	733	3.65
Unchahar-II	152	1,166	0.86	100	2.79	325	3.65	426	3.65
Unchahar-III	74	577	1.32	76	2.33	134	3.65	211	3.65
Farakka	33	202	0.82	17	2.75	55	3.57	72	3.57
Kahalgaon St. I	77	552	0.92	51	2.51	138	3.43	189	3.43
Kahalgaon St.II Ph.I	251	1,807	1.18	212	2.25	407	3.43	620	3.43
Koldam (Hydro)	204	780	1.56	122	2.32	181	3.88	303	3.88
Rihand-III	375	1,980	1.27	252	1.51	299	2.78	550	2.78
Sub-Total NTPC	4,294	29,503	0.00	2,544	0.00	7,316	0.00	9,861	3.34
Chamera	109	336	0.58	20	0.82	27	1.40	47	1.40
Chamera-II	86	392	1.28	50	1.00	39	2.28	89	2.28
Chamera-III	62	282	1.74	49	1.86	53	3.60	102	3.60
Dhauliganga	75	281	1.10	31	1.27	36	2.37	67	2.37
Salal I&II	48	252	0.60	15	0.38	9	0.98	25	0.98
Tanakpur	21	103	1.70	17	1.22	12	2.92	30	2.92
Uri	96	497	1.05	52	0.89	44	1.94	96	1.94
Dulhasti	111	516	2.82	145	2.30	118	5.12	264	5.12
Sewa-II	35	136	1.89	26	1.81	25	3.70	50	3.70

मि. अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 के.सो. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.									
Details of Monthly Electricity Purchases from different Generating Stations - FY 2015-16						Form No: F4a			
Uri-II	51	221	2.49	55	0.45	10	2.94	65	2.94
Parbati ST-III	140	514	1.05	54	3.74	192	4.79	246	4.79
Sub-Total NHPC	834	3,529	0.00	515	0.00	566	0.00	1,081	3.06
NAPP	166	1,025	0.00	-	2.49	255	2.49	255	2.49
RAPP #3&4	80	671	0.00	-	2.96	199	2.96	199	2.96
RAPP#5&6	115	885	0.00	-	3.53	312	3.53	312	3.53
Sub-Total NPCIL	361	2,581	0.00	-	0.00	766	0.00	766	2.97
NATHPA JHAKRI HPS	287	2,012	1.06	213	1.45	292	2.51	505	2.51
TALA POWER	45	181	0.00	-	2.13	39	2.13	39	2.13
Koteshwar	173	569	1.94	110	1.80	102	3.74	213	3.74
Srinagar	290	1,776	0.00	-	4.00	710	4.00	710	4.00
Sasan	495	3,469	0.15	54	1.15	399	1.30	452	1.30
Teesta St-III	561	2,431	2.33	565	1.71	415	4.03	980	4.03
Karcham-Wangtoo	200	158	0.00	-	3.00	47	3.00	47	3.00
VISHNUPRAYAG	352	2,450	0.58	143	1.25	307	1.84	451	1.84
TEHRI STAGE-I	418	2,171	1.51	327	3.42	743	4.93	1,070	4.93
Rosa Power Project	600	4,066	1.73	704	3.58	1,455	5.31	2,160	5.31
Rosa Power Project	600	4,066	1.73	704	3.61	1,468	5.34	2,172	5.34
Bara	1,782	2,126	1.17	249	1.85	394	3.02	642	3.02
Anpara 'C'	1,100	7,015	1.36	957	2.48	1,740	3.84	2,697	3.84
IGSTPP, Jhajhjar	51	212	2.59	55	4.19	89	6.78	144	6.78
Bajaj Hindusthan	450	2,807	2.25	632	4.39	1,232	6.64	1,864	6.64
Lalitpur	1,980	2,848	1.88	535	2.95	840	4.83	1,375	4.83
Sub-Total IPP/JV	9,383	38,354	0.00	5,248	0.00	10,273	0.00	15,521	4.05
Captive and Cogen	-	2,865	0.00	-	4.61	1,321	4.61	1,321	4.61
Inter system exchange (Bilateral & PXIL, IEX) / UI	-	4,940	0.00	-	5.00	2,470	5.00	2,470	5.00
Solar Energy	-	84	0.00	-	10.35	87	10.35	87	10.35
NVVN Coal Power	-	352	0.00	-	3.13	110	3.13	110	3.13
Sub-Total : Co-Generation & Other Sources	-	8,241	0.00	-	0.00	3,988	0.00	3,988	4.84
Grand Total of Power Purchase	21259	110231		11,740.08		29,684.8		41,424.90	3.76

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केरको, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.									
Details of Monthly Electricity Purchases from different Generating Stations - FY 2015-17							Form No: F4a		
Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average Cost
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Procurement of power from State Sector Generating Stations									
Thermal Stations									
Anpara A	630	3,852	0.75	289	2.16	831	2.91	1,120	2.91
Anpara B	1,000	7,194	1.11	801	1.99	1,431	3.10	2,233	3.10
Harduaganj	165	300	1.58	47	3.73	112	5.30	159	5.30
Obra A	288	533	1.25	67	2.60	139	3.85	206	3.85
Obra B	1,000	3,955	0.71	281	2.45	969	3.16	1,250	3.16
Panki	210	646	1.46	94	4.62	299	6.08	393	6.08
Parichha	220	425	1.06	45	4.47	190	5.54	236	5.54
Parichha Extn.	420	2,252	1.44	325	3.67	826	5.11	1,151	5.11
Parichha Extn. Stage II	500	3,388	1.84	625	3.66	1,240	5.50	1,864	5.50
Harduaganj Ext.	500	3,388	2.01	681	2.89	978	4.90	1,659	4.90
Anpara D	1,000	6,192	2.21	1,370	1.80	1,115	4.01	2,485	4.01
Sub total - Thermal	5933	32126		4625		8129		12754	3.97
Per unit Avg Rate of Thermal Generation								3.97	
Hydro Stations									
Khara	58	151	0.78	12	0.00	-	0.78	12	0.78
Matatila	20	53	0.70	4	0.00	-	0.70	4	0.70
Obra (Hydel)	99	260	0.68	18	0.00	-	0.68	18	0.68
Rihand	255	670	0.60	40	0.00	-	0.60	40	0.60
UGC Power Stations	14	36	2.31	8	0.00	-	2.31	8	2.31
Belka & Babail	6	16	2.44	4	0.00	-	2.44	4	2.44
Sheetla	4	9	2.96	3	0.00	-	2.96	3	2.96
Sub total - Hydro	455	1,195	0.00	88	0.00	-	0.00	88	0.74
Purchase Per unit Avg Rate from hydro generating stations								0.74	
Sub-Total Own	6388	33321		4,713.32		8,129.30		12,842.62	3.85
Procurement of power from Central Sector Generating Stations									
Anta	119	626	0.74	46	4.71	295	5.45	341	5.45
Auriya	243	1,279	0.56	71	5.13	655	5.68	726	5.68
Dadri Thermal	84	613	0.86	53	4.20	258	5.06	310	5.06
Dadri Gas	271	1,427	0.57	81	4.65	663	5.22	744	5.22
Dadri Extension	148	1,055	1.62	171	3.75	396	5.37	566	5.37
Rihand-I	372	2,697	0.82	220	2.12	571	2.93	791	2.93
Rihand-II	346	2,791	0.95	264	1.98	553	2.93	818	2.93
Singrauli	846	6,687	0.54	362	1.36	908	1.90	1,269	1.90
Tanda	440	3,255	1.05	343	3.76	1,224	4.81	1,567	4.81
Unchahar-I	257	2,009	0.87	174	2.99	600	3.85	774	3.85
Unchahar-II	152	1,166	0.90	104	2.96	345	3.85	449	3.85
Unchahar-III	74	577	1.37	79	2.47	143	3.84	222	3.84
Farakka	33	202	0.86	17	2.91	59	3.77	76	3.77
Kahalgaoon St. I	77	552	0.96	53	2.66	147	3.62	200	3.62
Kahalgaoon St.II Ph.I	251	1,807	1.22	221	2.39	432	3.61	653	3.61
Koldam (Hydro)	95	361	1.56	56	2.46	89	4.02	145	4.02
Rihand-III	375	1,980	1.32	262	1.60	317	2.92	579	2.92
Sub-Total NTPC	4184	29083		2578		7652		10230	3.52
Chamera	109	336	0.60	20	0.87	29	1.47	49	1.47

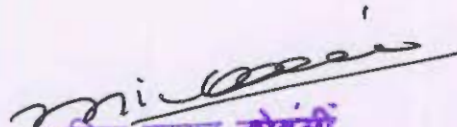
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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 देवरको, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.							Form No: F4a		
Details of Monthly Electricity Purchases from different Generating Stations - FY 2015-17									
Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average Cost
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	
Chamera-II	86	392	1.36	53	1.15	45	2.51	98	2.51
Chamera-III	62	282	2.00	56	1.86	53	3.86	109	3.86
Dhauliganga	75	281	1.10	31	1.27	36	2.37	67	2.37
Salal I&II	48	252	0.60	15	0.38	9	0.98	25	0.98
Tanakpur	21	103	1.70	17	1.22	13	2.92	30	2.92
Uri	96	497	1.05	52	0.89	44	1.94	96	1.94
Dulhasti	111	516	2.82	145	2.30	118	5.12	264	5.12
Sewa-II	35	136	1.89	26	1.81	25	3.70	50	3.70
Uri-II	25	111	4.98	55	0.45	5	5.43	60	5.43
	-	-	0.00	-	0.00	-	0.00	-	0.00
Parbati ST-III	104	383	1.41	54	3.74	143	5.15	197	5.15
Sub-Total NHPC	773	3287		525.99		519.64		1,045.63	3.18
NAPP	166	935	0.00	-	2.64	247	2.64	247	2.64
RAPP #3&4	80	604	0.00	-	3.14	190	3.14	190	3.14
RAPP#5&6	115	799	0.00	-	3.74	299	3.74	299	3.74
Sub-Total NPCIL	361	2339				735.43		735.43	3.14
NATHPA JHAKRI HPS	287	1,383	1.60	222	1.54	213	3.14	435	3.14
TALA POWER	45	181	0.00	-	2.26	41	2.26	41	2.26
Koteshwar	173	569	2.02	115	1.91	109	3.93	223	3.93
Srinagar	290	519	0.00	-	4.24	220	4.24	220	4.24
Sasan	495	2,081	0.27	56	1.22	254	1.49	310	1.49
Teesta St-III	2,175	10,186	0.00	-	0.00	-	0.00	-	0.00
Karcham-Wangtoo	200	158	0.00	-	3.18	50	3.18	50	3.18
VISHNUPRAYAG	352	1,623	0.92	149	1.33	216	2.25	365	2.25
TEHRI STAGE-I	418	1,809	1.88	340	3.63	657	5.51	997	5.51
Rosa Power Project	600	3,946	1.75	690	3.79	1,497	5.54	2,187	5.54
Rosa Power Project	600	3,946	1.75	690	3.83	1,510	5.57	2,200	5.57
Bara	1,782	7,395	1.18	874	3.20	2,367	4.38	3,241	4.38
Anpara 'C'	1,100	7,015	1.77	1,241	2.63	1,844	4.40	3,085	4.40
IGSTPP, Jhajhhar	51	354	1.61	57	4.44	157	6.05	214	6.05
Bajaj Hindusthan	450	2,807	2.25	632	4.65	1,306	6.90	1,938	6.90
Lalitpur	1,782	10,108	1.88	1,900	3.13	3,163	5.01	5,063	5.01
Sub-Total IPP/IV	10799	54080		6965		13604		20569	3.803401
Captive and Cogen	-	2,865	0.00	-	4.89	1,400	4.89	1,400	4.89
Inter system exchange	-	217	0.00	-	5.30	115	5.30	115	5.30
Solar Energy	-	84	0.00	-	10.97	92	10.97	92	10.97
NVVN Coal Power	-	352	0.00	-	3.32	117	3.32	117	3.32
Sub-Total : Co-Generation	-	3518				1,723.81		1,723.81	4.90
Grand Total of Power	22505	125627		14782		32,364.4		47,146.51	3.75

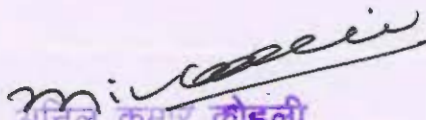
Note: DVVNL procures power from UPPCL which is its holding company. The overall portfolio of power purchase at the UPPCL level is provided above

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 अनिल कुमार कोहली
 मुख्य अभियंता (स्तर-1)
 बिजली कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.										
Energy Transmitted/wheeled through a particular transmission system, charges payable and other details										Form No: F4b
S No.	Name of the transmission system	Capacity of the transmission system	Energy Wheeled through the transmission system	Maximum Demand imposed by the distribution licensee on the transmission system	Transmission capacity aloted to the distribution licensee	Transmission charges	Other charges	Total Charges	Transmissi on charges/unit	
			(MU)	MW	MW	Rs. In Cr.	Rs. In Cr.	Rs. In Cr.	Rs. In Cr.	
1	UPPTCL	FY 2014-15	3,490.81			67.72	-	67.72	0.194	
2	UPPTCL	FY 2015-16	3,619.54			62.47	-	62.47	0.173	
3	UPPTCL	FY 2016-17	4,203.02			81.36	-	81.36	0.194	
4										
5										
6										
7										
8										
9										


 अनिल कुमार कोडली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

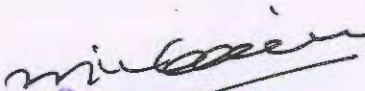
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.				Form No: F5		
Repair & Maintenance Expenditure						
S No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Plant and Machinery	22.16	22.16	17.85	24.82	25.05
2	Building	7.13	7.13	5.96	7.99	8.07
3	Civil Works	0.11	0.11	0.18	0.13	0.13
4	Hydraulic Works					
5	Transformers					
6	Lines, Cables Net Works etc.	16.76	16.76	27.19	18.77	18.94
7	Vehicles					
8	Furniture and Fixtures					
9	Office Equipments					
10	Transportation					
11	Sub station maintenance by private agencies					
12	Any other items (Capitalisation)					
	Additional R&M(@2.5% of incremental GFA)				0.13	0.87
	Total	46.16	46.16	51.18	51.84	53.05


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 कंस्ट्रो. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company I						
Employee Cost and Provisions						Form No: F6a
S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Salaries	87.86	87.86	83.65	98.42	99.32
2	Dearness Allowance					
3	Other Allowances & Relief					
4	Bonus/Exgratia					
5	Medical Expenses Reimbursement					
6	Leave Travel Assistance					
7	Earned Leave Encashment					
8	Compensation					
9	Staff Welfare Expenses	1.16	1.16	1.49	1.29	1.31
10	Pension and gratuity	14.56	14.56	14.28	16.31	16.46
11	Other Terminal benefits					
12	Expenditure on trust					
13	Any other employee expenses					
14	Arrear of Pay Commission/Time Scale					
15	Additional employee Expenses(@2.5% of incremental GFA)				0.26	1.68
	Grand Total	103.58	103.58	99.42	116.28	118.77
	Employee expenses capitalized	1.07	1.07	1.41	17.44	17.82
	Net employee expenses	102.51	102.51	98.00	98.84	100.96

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 अनिल कुमार कोहली
 मुख्य अभियंता (स्टर-1)
 कोसो, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.			Form No: F7			
Administration & General Expenses						
S.No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A)	Administration Expenses					
1	Rent rates and taxes (Other than all taxes on income and profit)	1.55	1.55	3.87	1.74	1.76
2	Insurance of employees, assets, legal liability	0.05	0.05	0.00	0.06	0.06
3	Revenue Stamp Expenses Account					
4	Telephone,Postage,Telegram, Internet Charges	0.38	0.38	0.41	0.43	0.43
5	Incentive & Award To Employees/Outsiders					
6	Consultancy Charges				-	-
7	Travelling	0.08	0.08	0.08	0.09	0.09
8	Technical Fees				-	-
9	Other Professional Charges	2.15	2.15	1.87	2.40	2.43
10	Conveyance And Travel (vehicle hiring, running)					
11	UPERC License fee				-	-
12	Plant And Machinery (for administrative use)					
13	Security / Service Charges Paid To Outside Agencies	15.63	15.63	4.19	17.51	17.67
14	Other Regulatory Expenses					
15	IT related expenses					
	Sub-Total of Administrative Expenses	19.85	19.85	10.43	22.23	22.44
B)	Other Charges					
1	Fee And Subscriptions (Books And Periodicals)	0.73	0.73	0.76	0.81	0.82
2	Printing And Stationery	0.47	0.47	0.40	0.52	0.53
3	Advertisement Expenses	0.47	0.47	0.60	0.52	0.53
4	Contributions/Donations To Outside Institute / Association					
5	Electricity Charges To Offices				-	-
6	Water Charges				-	-
7	Consultancy expenses /Any Study related expenses					
8	Miscellaneous Expenses	0.99	0.99	1.24	1.11	1.12
9	Expenses on Public Interaction Program				-	-
10	Any Other expenses	30.92	30.92	29.15	34.63	34.95
	Sub-Total of other charges	33.57	33.57	32.15	37.60	37.95
C)	Legal Charges				-	-
D)	Auditor'S Fee	0.17	0.17	-	0.19	0.19
E)	Freight - Material Related Expenses					
F)	Other Departmental Charges					
	Additional A&G expenses(@2.5% of incremental GFA)				0.11	0.75
G)	Total Charges	53.59	53.59	42.58	60.14	61.33
H)	Expenses capitalized	0.02	0.02	0.03	9.02	9.20
I)	Net Administrative and General expenses	53.57	53.57	42.56	51.12	52.13


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

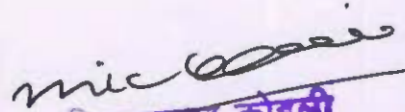
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.											
Fixed Assets and Provision for Depreciation											
Sl.No	Particulars	FY 2013-14									
		Gross Fixed Assets				Provision For Depreciation				Net Fixed Assets	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Deprecia-tion	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	At The begning of Year
1	Land & Land rights										
	a. Unclassified										
	b. Free hold land										
2	Buildings										
3	Other civil works										
4	Plant and machinery										
5	Transmission and Distribution system (Lines, cable network etc.)										
6	Meters and other Metering Equipment										
7	Communication equipment										
8	Vehicles										
9	Furniture and fixtures										
10	Office equipments										
11	Intangible Assets										
	a. Computer Software										
	b. Investment in capacity argumentation										
	c. Others										
12	Assets taken over & pending final valuation										
13	Transfer Schemes										
	Total (1 to 13)	583.27	32.75	-	616.02	7.84%		47.01			
	Less; Dep on Assets Capitalized through Consumer Contribution							10.22			
	Net Depreciation							36.80			

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

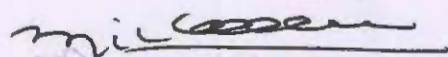
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.											
Fixed Assets and Provision for Depreciation										Form No: F8	
Sl.No	Particulars	FY 2014-15									
		Gross Fixed Assets				Provision For Depreciation				Net Fixed Assets	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Deprecia-tion	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	At The begning of Year
1	Land & Land rights										
	a. Unclassified										
	b. Free hold land										
2	Buildings										
3	Other civil works										
4	Plant and machinery										
5	Transmission and Distribution system (Lines, cable network etc.)										
6	Meters and other Metering Equipment										
7	Communication equipment										
8	Vehicles										
9	Furniture and fixtures										
10	Office equipments										
11	Intangible Assets										
	a. Computer Software										
	b. Investment in capacity argumentation										
	c. Others										
12	Assets taken over & pending final valuation										
13	Transfer Schemes										
	Total (1 to 13)	616.02	20.10	-	636.11	7.84%		49.08			
	Less; Dep on Assets Capitalized through Consumer Contribution							4.47			
	Net Depreciation							44.61			

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 के.ए.सी. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.											
Fixed Assets and Provision for Depreciation											
Form No: F8											
Sl.No	Particulars	FY 2015-16									
		Gross Fixed Assets				Provision For Depreciation				Net Fixed Assets	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Deprecia-tion	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	At The begning of Year
1	Land & Land rights										
	a. Unclassified										
	b. Free hold land										
2	Buildings										
3	Other civil works										
4	Plant and machinery										
5	Transmission and Distribution system (Lines, cable network etc.)										
6	Meters and other Metering Equipment										
7	Communication equipment										
8	Vehicles										
9	Furniture and fixtures										
10	Office equipments										
11	Intangible Assets										
	a. Computer Software										
	b. Investment in capacity argumentation										
	c. Others										
12	Assets taken over & pending final valuation										
13	Transfer Schemes										
	Total (1 to 13)	636.11	111.17	-	747.29	7.84%		54.23			
	Less; Dep on Assets Capitalized through Consumer Contribution							14.64			
	Net Depreciation							39.59			


 अनिल कुमार कोहली
 सहाय अभियन्ता (स्तर-1)
 कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.												
Fixed Assets and Provision for Depreciation											Form No: F8	
Sl.No	Particulars	FY 2016-17										
		Gross Fixed Assets				Provision For Depreciation					Net Fixed Assets	
		At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	Rate of Deprecia-tion	At Begning of Year	Addition During Year	Adjust-ments & Deduction	At End of Year	At The begning of Year	At the End of Year
1	Land & Land rights											
	a. Unclassified											
	b. Free hold land											
2	Buildings											
3	Other civil works											
4	Plant and machinery											
5	Transmission and Distribution system (Lines, cable network etc.)											
6	Meters and other Metering Equipment											
7	Communication equipment											
8	Vehicles											
9	Furniture and fixtures											
10	Office equipments											
11	Intangible Assets											
	a. Computer Software											
	b. Investment in capacity argumentation											
	c. Others											
12	Assets taken over & pending final valuation											
13	Transfer Schemes											
	Total (1 to 13)	747.29	160.92	-	908.21	7.84%		64.90				
	Less; Dep on Assets Capitalized through Consumer Contribution							17.51				
	Net Denreciation							47.38				


 अनिल कुमार कोहली
 मुख्या अभियन्ता (स्तर-1)
 कैंस्को, कानपुर

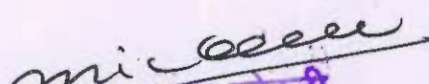
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Interest & Finance Charges					Form F-9	
S.No	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A	Interest and Finance Charges on Long Term Loans / Credits from the FIs/banks/organisations approved by the State Government					
	Interest on Long Term Loans	294.34	0.00	265.00	6.84	18.56
	Interest on Working Capital	0.00	21.13	0.00	25.45	30.44
	Total Interest Charges	294.34	21.13	265.00	32.29	49.00
	Finance Charges					
	Interest to Consumers	8.10	8.10	9.17	10.09	9.85
	Bank Charges	0.00	0.00	0.44	0.46	0.46
	Discount to Consumers	-	-	-	-	-
	Finance Charges/Guarantee fees	-	-	-	-	-
	Total Finance Charges	8.10	8.10	9.61	10.55	10.31
	Gross Interest and Finance Charges	302.44	29.23	274.60	42.83	59.30
	IDC	-	-	-	5.26	14.29
	Net Interest and Finance Charges	302.44	29.23	274.60	37.57	45.01

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 अनिल कुमार कोहली
 मुरझ अभियन्ता (स्तर-1)
 कैंस्को, कानपुर

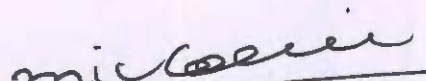
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Domestic loans, bonds and financial leasing (Normative Loans)					Form No: F9 (a)	
Particulars	Opening Balance at the beginning as on April 1, 2013	Amount received during the year	Principal repayment during the year	Interest		Closing Balances as on March 31, 2014
In Rs Crore	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Rate %	Amt Rs. Cr
Long Term Loans						
Go UP (T/Scheme)						
Go UP-APDRP						
Go UP World Bank						
UPSIDCL						
Hudco						
REC (T/Scheme)						
PFC (Transfer Scheme)						
REC (APDRP)						
REC (Bridge Loan)						
PFC (T/Scheme)						
PFC (R-APDRP)						
PFC (Business Plan)						
REC (Sub Station Loan)						
REC (ABC Loan)						
PFC (R-APDRP Part B)						
Interest Accrued but not due						
REC (WC)						
REC (Transfer S)						
Bank Loans (FRP)						
PFC						
REC						
Noida+ Mandi Parishad						
Total	1,698.31	-	-	294.34	12.90%	2,865.19

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 अनिल कुमार कोहली
 वृत्त अभियन्ता (स्तर-1)
 तालुका, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Domestic loans, bonds and financial leasing (Normative Loans)					Form No: F9 (a)	
Particulars	Opening Balance at the beginning as on April 1, 2014	Amount received during the year	Principal repayment during the year	Interest		Closing Balances as on March 31, 2015
In Rs Crore	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Rate %	Amt Rs. Cr
Long Term Loans						
Go UP (T/Scheme)						
Go UP-APDRP						
Go UP World Bank						
UPSIDCL						
Hudco						
REC (T/Scheme)						
PFC (Transfer Scheme)						
REC (APDRP)						
REC (Bridge Loan)						
PFC (T/Scheme)						
PFC (R-APDRP)						
PFC (Business Plan)						
REC (Sub Station Loan)						
REC (ABC Loan)						
PFC (R-APDRP Part B)						
Interest Accrued but not due						
REC (WC)						
REC (Transfer S)						
Bank Loans (FRP)						
PFC						
REC						
Noida+ Mandi Parishad						
Total	2,865.19					2.92


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 डेस्क, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Domestic loans, bonds and financial leasing (Normative Loans)					Form No: F9 (a)	
Particulars	Opening Balance at the beginning as on April 1, 2015	Amount received during the year	Principal repayment during the year	Interest		Closing Balances as on March 31, 2016
In Rs Crore	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Rate %	Amt Rs. Cr
Long Term Loans						
Go UP (T/Scheme)						
Go UP-APDRP						
Go UP World Bank						
UPSIDCL						
Hudco						
REC (T/Scheme)						
PFC (Transfer Scheme)						
REC (APDRP)						
REC (Bridge Loan)						
PFC (T/Scheme)						
PFC (R-APDRP)						
PFC (Business Plan)						
REC (Sub Station Loan)						
REC (ABC Loan)						
PFC (R-APDRP Part B)						
Interest Accrued but not due						
REC (WC)						
REC (Transfer S)						
Bank Loans (FRP)						
PFC						
REC						
Noida+ Mandi Parishad						
Total	2.92	139.76	39.59	6.84	12.90%	103.08


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Domestic loans, bonds and financial leasing (Normative Loans)					Form No: F9 (a)	
Particulars	Opening Balance at the beginning as on April 1, 2016	Amount received during the year	Principal repayment during the year	Interest		Closing Balances as on March 31, 2017
In Rs Crore	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Amt Rs. Cr	Rate %	Amt Rs. Cr
Long Term Loans						
Go UP (T/Scheme)						
Go UP-APDRP						
Go UP World Bank						
UPSIDCL						
Hudco						
REC (T/Scheme)						
PFC (Transfer Scheme)						
REC (APDRP)						
REC (Bridge Loan)						
PFC (T/Scheme)						
PFC (R-APDRP)						
PFC (Business Plan)						
REC (Sub Station Loan)						
REC (ABC Loan)						
PFC (R-APDRP Part B)						
Interest Accrued but not due						
REC (WC)						
REC (Transfer S)						
Bank Loans (FRP)						
PFC						
REC						
Noida+ Mandi Parishad						
Total	103.08	128.99	47.38	4.27	12.90%	184.69

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Details of Expenses Capitalised

Form -10

Sl.No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Interest & Finance charges Capitalised	-	-	-	5.26	14.29
2	Other expenses capitalised:					
	a. Employee expenses	1.07	1.07	1.41	17.44	17.82
	b. R&M Expenses					
	c. A&G Expenses	0.02	0.02	0.03	9.02	9.20
	d. Others, if any					
	Total of 2	1.09	1.09	1.44	26.46	27.02
	Grand Total	1.09	1.09	1.44	31.73	41.31

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केरको, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Debits, Write-offs and any other items						Form-11
Sl.No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Material Cost Variance					
2	Miscellaneous Losses And Writte Off					
3	Bad Debt Written Off/Provided For	7.05	32.09	8.63	37.44	42.84
4	Cost Of Trading & Manufacturing Activities					
5	Net Prior Period Credit/Charges	-41.37	-41.37	-1.56	0.00	0.00
6	Sub-Total	- 34.32	- 9.28	7.06	37.44	42.84
7	Less Chargeable To Capital Expense					
	Net Chargeable To Revenue	(34.32)	(9.28)	7.06	37.44	42.84

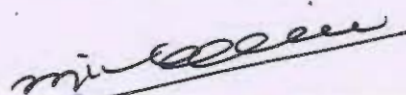
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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Statement of Sundry Debtors and provision for Bad & Doubtful Debts

Form No: F12

Sl.No.	Particulars	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		True-Up	Provisional Accounts	Revised Estimates	ARR
1	Receivable from customers as at the beginning of the year	3,140.91	1,677.48	1,814.09	2,094.92
2	Revenue billed for the year	1,545.24	1,689.24	1,872.23	2,142.03
3	Collection for the year	3,008.67	1,552.64	1,591.39	1,820.73
	Against current dues				
	Against arrears upto previous year				
4	Gross receivable from customers as at the end of the year	1,677.48	1,814.09	2,094.92	2,416.22
5	Receivables against permanently disconnected consumers				
6	Receivables(4-5)	1,545.24	1,689.24	1,872.23	2,142.03
7	% of provision	2.00%	2.00%	2.00%	2.00%
8	Provision for bad and doubtful debts	32.09	8.63	37.44	42.84



अनिल कुमार कोहली

मुख्य अभियन्ता (स्तर-1)

के.एस.को. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.						
Extraordinary Items						Form No: F13
Sl.No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
1	Extraordinary Credits					
	subsidies against losses due to natural disasters					
	TOTAL CREDITS					
2	Extraordinary Debits					
	subsidies against losses due to natural disasters					
	TOTAL DEBITS					
	Grand Total					

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 अमित कुमार कोहली
 मुख्य अभियंता (स्तर-1)
 देस्कॉ, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Form No: F14

Net Prior Period Expenses / Income

Sl.No.	Particulars	FY 2013-14	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
		Audited	True-Up	Provisional Accounts	Revised Estimates	ARR
A	Income relating to previous years:					
1	Misc Receipts	45.80	45.80			
2	Income Tax prior period					
3	Excess Provision for Depreciation			-		
4	Excess Provision for Interest and Fin. Charges			-		
5	Receipts from consumers					
6	Transmission Charges			-		
7	Others			-		
	Sub-Total A	45.80	45.80	0.00	0.00	0.00
B	Expenditure relating to previous years					
1	Power Purchase					
2	Operating Expenses	0.22	0.22	0.44		
3	Excise Duty on generation					
4	Employee Cost	1.05	1.05			
5	Depreciation					
6	Interest and Finance Charges	0.93	0.93	-0.00		
7	Admn. Expenses					
8	Withdrawal of Revenue Demand					
9	Material Related					
10	Others	2.22	2.22	-2.01		
	Sub-Total B	4.43	4.43	-1.57	0.00	0.00
	Net prior period Credit/(Charges) : A-B	-41.37	-41.37	-1.57	0.00	0.00

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मुख्य अभिलेखी (खार-1)
कानपुर, यूपी

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Contributions, Grants and subsidies towards Cost of Capital Assets

Form No: F15

SI No	Particulars	Previous Year		Current Year		Ensuing Year	
		Balance at the beginning of the year	Net Additions during the Year	Balance at the end of the Year	Net Additions during the Year	Balance at the end of the Year	Net Additions during the Year
1	Consumer Contribution Towards Cost Of Capital Assets (Net)	149.62	0.97	150.59	13.97	164.57	(10.20)
2	Consumer Contribution towards Metering Systems						
3	Others						
	Sub-Total	149.62	0.97	150.59	13.97	164.57	(10.20)
4	Subsidies Towards Cost Of Capital Asset						
5	Grant Towards Cost Of Capital Assets						
6	Others						
	Sub-Total						
	Total	149.62	0.97	150.59	13.97	164.57	(10.20)

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 अनिल कुमार कोडली
 मुख्य अभियन्ता (स्तर-1)
 के.एस.के. कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Statement of Assets Not in Use

Form No: F17

Sl. No.	Financial Year* Date of Acquisition/Installation	Historical Cost/Cost of Acquisition	Date of withdrawal operations	Accumulated Depreciation on date of withdrawal	Written down value on date of withdrawal
	NIL				

*Note:- Information to be provided for Previous Year, Current Year & Ensuing Year

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 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

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~~मिले~~
अनिल कुमार कोहली
मुख्य अभियन्ता (स्तर-1)
केस्को, कानपुर ✓

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.					
Current Assets & Liabilities				Form No: F19	
Sl.No	Particulars	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17
A	Current Assets, Loans and Advances				
	Sundry Debtors				
	Inventories				
	Cash and Bank Balances				
	Loans and Advances				
	Other current assets				
B	Current Liabilities and Provisions				
	Sundry Creditors				
	Provisions				
	Other Current Liabilities				
C	NET CURRENT ASSETS (A - B)				

The Hon'ble Commission in the True up Order for FY 2008-09 to FY 2011-12 dated 01st October, 2014 had adopted a normative tariff approach towards capital structure. This entailed that regulatory balances towards equity, GFA, accumulated depreciation, loans, etc would be different from financial statements. Hence, Forms S2, S3 and F19 have become infrutuous as they would not match with financial statements. Considering the above, the Licensee seeks waiver from filing the Form Nos S2, S3 and F19.

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अनिल कुमार कोहली
मुख्य अभियन्ता (स्तर-1)
केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Capital Investment Plan for FY 2015-16

Additional Form

Description	Qty	Capital Expenditure			
		Loans	Equity / Internal Accruals	Deposit Works	Total
Capacity Enhancement/Construction of 33/11 kV Sub-stations	2 Nos	0.28	0.12		0.40
Replacement of Damaged 33kV Breakers	5 Nos	0.09	0.04		0.12
Replacement of Damaged 11kV Incoming/Outgoing/Bus-Couplers with Breakers	10 Nos	0.12	0.05		0.18
Installation of 250 KVA and 400 KVA transformers	100 KVA; 64 - 250	0.94	0.40		1.34
Capacity enhancement of distribution transformers from 250KVA to 400 KVA	34 Nos	0.31	0.13		0.45
Installation of Aerial Bunch Conductor	250 Kms	4.29	1.84		6.13
Replacement of Old Conductors	19 Kms	0.29	0.13		0.42
Replacement of Old Poles	770 Nos	0.31	0.13		0.44
Replacement of 33kV Line	11.45 kms	1.53	0.66		2.18
Construction of 33 KV Overhead Line	4 kms	0.29	0.13		0.42
Construction of 33 kV underground line	10 Kms	2.64	1.13		3.77
Construction of 11 kV Overhead line	17 kms	0.47	0.20		0.68
Replacement of 11Kv cables/underground cables	27.5 Kms	1.24	0.53		1.77
Plinth works and Fencing Works of Transformers	140 Nos	0.30	0.13		0.43
Guarding of 33kV and 11kV S/S	20 Kms	0.11	0.05		0.15
Replacement & Installation of Meters	42000 Nos	1.50	0.64		2.15
Installation of 3 phase meters	3500 Nos	0.50	0.22		0.72
Checking of Meters	50000 Nos	0.50	0.21		0.72
Investment on the new Online Billing Centers and under ground cable work	5 Nos	122.15	52.35		0.00
(a) LT Meters	1000 Nos	0.50	0.21		174.50
(b) HT Meters	171 Nos	0.36	0.15		0.52
Purchase and Installation of L.P.R	1500 Nos	0.10	0.04		0.14
Investment on the new Online Billing Centers	5 Nos	0.10	0.04		0.14
System Improvement	NA	0.82	0.35		1.18
Deposit Works	NA	0.00	0.00	4.44	4.44
Total		139.76	59.90	4.44	204.09

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.

Capital Formation During FY 2014-15

Additional Form

Detail	Balance 31-Mar-14	Investments	Cap interest	Cap expenses	To GFA	Depreciation	Balance 31-Mar-15
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gross Fixed Assets	616.0	20.1	-			7.84%	636.1
Depreciation							49.1
Work in Progress	44.1	12.1	1.1	0.0	32.8		24.6

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.							
Capital Formation During FY 2015-16							Additional Form
Detail	Balance 31-Mar-15	Invest-ments	Cap interest	Cap expenses	To GFA	Depreciation	Balance 31-Mar-16
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gross Fixed Assets	636.1	111.2				7.84%	747.3
Depreciation							14.6
Work in Progress	24.6	204.1	19.0	9.0	111.2		166.8

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

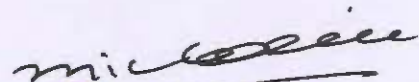
Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.							
Capital Formation During FY 2016-17							Additional Form
Detail	Balance 31-Mar-16	Invest-ments	Cap interest	Cap expenses	To GFA	Depreciation	Balance 31-Mar-17
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gross Fixed Assets	747.29	160.92				7.84%	908.2
Depreciation							64.9
Work in Progress	166.8	204.3	17.8	13.5	160.9		241.4

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.			
Revenue Assesment,Sales & Through Rate :FY 2015-16			Form No: T3
Consumer Category	Assessment Revenue	Electricity Sales	Through Rate
	Rs. Cr	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	859.36	1,520.39	5.65
LMV-2: Non Domestic Light, Fan & Power	203.58	219.67	9.27
LMV-3: Public Lamps	50.82	60.99	8.33
LMV-4: Insitutions	39.61	52.59	7.53
LMV-5: Private Tube Wells	-	-	-
LMV 6: Small and Medium Power	212.51	269.56	7.88
LMV-7: Public Water Works	34.91	42.21	8.27
LMV-8: State Tubewells & Pumped Canals	-	-	-
LMV-9: Temporary Supply	-	-	-
LMV-10: Deptt. Empl. & Pensioners	3.51	17.10	2.06
HV-1: Non-Industrial Bulk Load	120.61	141.69	8.51
HV-2: Large & Heavy Power	347.32	444.75	7.81
HV-3: Railway Traction	-	-	-
HV-4: Lift Irrigation Works	-	-	-
Sub Total	1,872.23	2,768.95	6.76
Bulk & Extra State	-	-	-
Total	1,872.23	2,768.95	6.76

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 अरिस्तु कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee: Kanpur Electricity Supply Company Ltd.			
Revenue Assesment,Sales & Through Rate :FY 2016-17			Form No: T3
Consumer Category	Assessment Revenue	Electricity Sales	Through Rate
	Rs. Cr	MU	Rs./kWh
LMV-1: Domestic Light, Fan & Power	1,072.37	1,938.70	5.53
LMV-2: Non Domestic Light, Fan & Power	198.52	221.62	8.96
LMV-3: Public Lamps	50.82	60.99	8.33
LMV-4: Insitutions	48.50	65.29	7.43
LMV-5: Private Tube Wells	-	-	-
LMV 6: Small and Medium Power	257.31	334.17	7.70
LMV-7: Public Water Works	35.25	42.63	8.27
LMV-8: State Tubewells & Pumped Canals	-	-	-
LMV-9: Temporary Supply	-	-	-
LMV-10: Deptt. Empl. & Pensioners	3.51	18.81	1.87
HV-1: Non-Industrial Bulk Load	122.59	143.99	8.51
HV-2: Large & Heavy Power	353.14	452.16	7.81
HV-3: Railway Traction	-	-	-
HV-4: Lift Irrigation Works	-	-	-
Sub Total	2,142.03	3,278.36	6.53
Bulk & Extra State	-	-	-
AGRA DisCom	2,142.03	3,278.36	6.53


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited											
Revenue Arrears and Age-wise Analysis - PREVIOUS YEAR 2013-14											Form No: P1
S.No.	Particulars	Arrears at the beginning of the year	Billed during the year	Realised during the year	Arrears at the end of year	Percentage increase (+) Decrease (-)		Age-wise Analysis (Months)			NOTES:
							Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years
1	Sale of power within State										
2	Sale of power inter state										
3	Electricity duty										
4	Dues from permanently disconnected consumers having arrears more than 10 lacs										
5	Dues from permanently disconnected consumers having arrears less than 10 lacs										
6	Miscellaneous receipts from consumers										
7	Less provision for doubtful dues from consumers										
8	Total (1+2+3+4+5+6-7)	1,644	1,146	973	1,817		-	-	-	-	-
9	Details of litigation/disputes having dues more than Rs.10 lacs										
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'										

Note: For arrears of 10 Lakh and above also provide consumer wise details

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited

Revenue Arrears and Agewise Analysis - CURRENT YEAR 2014-15

Form No: P1

S.No.	Particulars	Arrears at the beginning of the year	Billed during the year	Realised during the year	Arrears at the end of year	Percentage increase (+) Decrease (-)		Age-wise Analysis (Months)				NOTES:
							Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years	
1	Sale of power within State											
2	Sale of power inter state											
3	Electricity duty											
4	Dues from permanently disconnected consumers having arrears more than 10 lacs											
5	Dues from permanently disconnected consumers having arrears less than 10 lacs											
6	Miscellaneous receipts from consumers											
7	Less provision for doubtful dues from consumers											
8	Total (1+2+3+4+5+6-7)	1,817	1,540	1,359	1,997		-	-	-	-	-	
9	Details of litigation/disputes having dues more than Rs.10 lacs											
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'											

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 कोरको, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited

Revenue Arrears of Government/ Local Bodies and Age-wise Analysis - PREVIOUS YEAR 2013-14

Form No: P1(a)

S.No.	Particulars	Arrears at the beginning of the year	Billed during the year	Realised during the year	Arrears at the end of year	Percentage increase (+) Decrease (-)		Age-wise Analysis (Months)				NOTES:
							Upto 6 Months	6-12 Months	12-24 Months	24-36 Months	More than 3years	
1	Sale of power to the Government departments											
2	Electricity duty											
3	Provision of unbilled revenue											
4	Dues from permanently disconnected consumers having arrears more than 10 lacs											
5	Dues from permanently disconnected consumers having arrears less than 10 lacs											
6	Miscellaneous receipts from Govt.											
7	Less provision for doubtful dues from Govt.											
8	Total (1+2+3+4+5+6-7)	-	35.35	24.12	11.23							
9	Details of litigation/disputes having dues more than Rs.10 lacs											
10	Steps proposed to be taken to improve collection and to reduce the revenue arrears'											
	Note: Formats should be separately provided for Government and Local Bodies											

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited

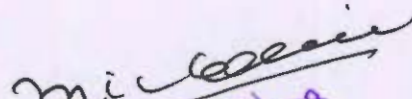
T&D Losses in LT and HT system

Form No: P2

	S.No	Particulars	FY 2014-15 Provisional Accounts	FY 2015-15 Revised Estimates	FY 2016-16 ARR
A	System Losses At 33 KV				
	1	Energy received into the system			
	2	Energy sold at this voltage level			
	3	Energy transmitted to the next (lower) voltage level			
	4	Energy Lost			
	5	Total Loss in the system (4/1)*100%			
B	Losses At 11 KV				
	1	Energy received into the system			
	2	Energy sold at this voltage level			
	3	Energy transmitted to the next (lower) voltage level			
	4	Energy Lost			
	5	Total Loss in the system (4/1)*100%			
C	LT System Losses				
	1	Energy received into the system			
	2	Energy sold at this voltage level			
	3	Energy Lost			
	4	Total Loss in the system (3/1)*100%			
D	Overall Losses				
	1	Energy In (A1)	3681.55	3820.47	4436.35
	2	Energy Out (A2+B2+C2+D2))	2581.75	2768.95	3278.36
	3	Total T&D Loss ((1-2)/1)*100%	29.87%	27.52%	26.10%

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 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited							
Transformer and line length details							Form No: P5
Sl. No	Details	2011-12		2012-13		2013-14	Remarks
		Qty	Capacity MVA	Qty	Capacity MVA	Qty	
I	Number of Sub- Stations 33/11 KV	67	830	72	984	72	1007
II	Number of Sub- Stations 11/0.4 KV						
III	Transformation Capacity	3323	942096	3603	1030225	3760	1110169
	33/11 KV Transformers						
	11/0.4 KV Transformers						
	6.6/0.4KV Transformers						
III	No of Transformers	3323	942096	3603	1030225	3760	1110169
	33/11 KV						
	11/0-4 KV						
IV	Number of Feeders						
	33 KV	123		123		123	
	11 KV	314		314		314	
	0.4 KV						
V	Line Length						
1	33 KV	1220		1320		1340	
2	11 KV	2351		2416		2466	
3	0.4 KV						
VI	Capcitor Banks installed (Capacity in MVA)						


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited

Failure of Transformers

Form No: P7

PREVIOUS YEAR 2012-13

Sl.No.	Name of Division	1000 KVA	630 KVA	400 KVA	250 KVA	160 KVA	100 KVA	63 KVA	25 KVA	Total
1	Electricity House	0	17	128	41	8	30	9	8	241
2	Zareeb Chowki	0	8	56	13	2	4	0	2	85
3	Aloo Mandi	0	6	17	14	0	2	0	1	40
4	Phool Bagh	0	9	46	5	0	1	0	1	62
5	Nawab Ganj	1	1	20	11	1	2	1	0	37
Total of Circle-I		1	41	267	84	11	39	10	12	465
6	Gumti	0	5	11	6	1	1	0	0	24
7	Dada Nagar	0	3	17	24	2	6	1	4	57
8	Ratan Pur	0	0	15	11	1	1	1	0	29
9	Govind Nagar	0	5	48	16	0	4	0	0	73
10	World Bank Barra	0	6	28	5	0	0	0	0	39
Total of Circle-II		0	19	119	62	4	12	2	4	222
11	Naubasta	0	2	77	25	0	1	3	0	108
12	Kidwai Nagar	0	0	68	21	0	3	0	0	92
13	Harrish Ganj	0	0	24	14	1	1	1	2	43
14	Jajmau	0	7	32	10	1	3	1	0	54
15	Delhi Sujampur	0	3	40	20	0	4	3	0	70
Total of Circle-III		0	12	241	90	2	12	8	2	367
16	Kalyanpur	0	1	30	11	1	4	2	6	55
17	Sarvodaya Nagar	0	0	27	7	0	1	1	0	36
18	Vikas Nagar	0	0	0	2	1	2	2	6	13
Total of Circle-IV		0	1	57	20	2	7	5	12	104
Grand Total		1	73	684	256	19	70	25	30	1158

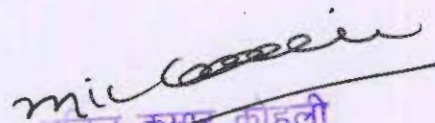
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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited		
Billing Details - Periodicity as per regulations		Form No. P8
Sl.No.	Consumers Category	Billing Cycle
1	LMV-1 (Domestic)	Bi - Monthly
2	LMV-2 (Commercial)	Monthly
3	LMV-3 (Public Lighting)	Monthly
4	LMV-4A (Public Institutions)	Monthly
5	LMV-4B (Private Institution)	Monthly
6	LMV-6A (Powerlooms)	Monthly
7	LMV-6B (Small & Medium)	Monthly
8	LMV-7 (Water Work)	Monthly
9	HV-2 (Large & Heavy)	Monthly

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 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited										
Peak Demand in MW										Form No: P10
Sl.No.										
S.No.	Particulars	2007-08 Actual	2008-09 Provisional	2009-10 Provisional	2010-11 Provisional	2011-12 Estimates	2012-13 Projections	2013-14 Projections	2014-15 Projections	2015-16 Projections
1	Peak Period									
	a) Winter	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan	Dec to Jan
	b) Summer	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep	Apr to Sep
	c) Other									
2	Maximum Peak Demand	Licensee does not maintain the detail as per the requirement of the format. Waival for submission of this format is requested by the Licensee								
	a) Restricted									
	b) Unrestricted									
3	Peak Availability Assessed									
4	Shortfall in meeting Peak Demand									
	a) Restricted									
	b) Unrestricted									

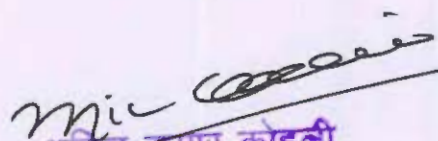
Notes:- Details of Load Rostering may be provided along with this format ie., in terms of MW, MU and number of hours per day.


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 कंरको, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited			
Management and operation related ratios			Form No: P11
S. No	Particulars	PY	CY
		Actual	Estimated
A Financial & Material Management			
1	Annual capital expenditure/net book value		
2	Distribution cost/Energy sales across consumer categories		
3	Employee cost as a percentage of total cost	7.23%	4.96%
4	Operating expenses / Revenue from Sale of power	103%	122%
5	Cost of capital		
6	Debt Service Coverage Ratio	-	20.66
7	Stores Inventory/1000 Km of distribution lines		
9	Working Capital to Revenue from Sale of power	0.08	0.09
B HR Management			
1	No. of consumers per employee	242	266
2	Energy Sales (MU) per Employee	0.93	1.05
3	Network Length (Km.) per Employee		
4	Connected Load (MVA) per Employee	707	735
5	Tariff Income per Employee	0.44	0.55
6	Training participation days per employee		
7	Employee cost per unit of retail sales	0.04	0.04
C Metering, Billing and Collection			
1	Number of Meters per Meter Reader	Not Available	
	a) Urban		
	b) Rural		
2	Number of meter readings done per meter reader per month		
	a) Urban		
	b) Rural		
3	Meters defective & damaged / Meters in service		
4	Average level of customer arrears (days/ customer)	Not Available	
5	Amount (%) involved in customer litigation cases		
6	Number (%) involved in customer litigation cases		
7	Number of computerized bills/Number of manual bills		
D Operational Performance			
1	Unplanned outage/total outage (Fault breakdown / total outage)	Not Available	
2	Annual replacement rate of Distribution transformers (%): (Distribution Transformers replaced / Transformers in service)		
3	Reliability Indices		
	i) System Average Interruption Frequency Index (SAIFI) *		
	ii) Average Interruption Duration Index (SAIDI)		
	iii) Momentary Average Interruption Frequency Index (MAIFI)	Not Available	
E Consumer Services			
1	No. of complaint received per year to total number of consumers (%)	Not Available	
2	Ratio of staff attending complaints per thousand consumers (Skilled /Unskilled staff separately identified)		

Signature
 अनिल कुमार काहली
 मुख्य अभियन्ता (स्तर-1)
 कोरका, कानपुर

Name of Distribution Licensee - Kanpur Electricity Supply Company Limited						
Debt Restructuring						Form No: P12
S. No	Long Term Loans / Credits from the FIIs/banks/ organisations approved by the State Government	Cost of Debt before restructuring	Interest Burden before rest.	Cost of Debt after restr.	Interest Burden after rest.	Benefit (2-4)
		1	2	3	4	5
I						
1	LIC					
2	REC					
3	PFC					
4	Bonds					
5	Bank/FIIs					
6	APDRP					
7	Any Other			Not Applicable		
	Total of I					
II	Interest on Working Capital Loans Or Short Term Loans					
1						
2						
3						


 अनिल कुमार कोहली
 मुख्य अभियन्ता (स्तर-1)
 केस्को, कानपुर

ANNUAL REVENUE REQUIREMENT PETITION

FOR FY 2016-17

ANNEXURE - 2

Audited Balance Sheet for FY 2013-14



KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

KANPUR

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अनिल कुमार कोहली
मुख्य अभियन्ता (स्त-1)
कैस्को, कानपुर

12/10

भारतीय लेखा एवं लेखापरीक्षा विभाग
कार्यालय महालेखाकार
(आर्थिक एवं राजस्व लेखापरीक्षा), उ०प्र०
छठा तल, केन्द्रीय भवन, सेक्टर 'एच', अलीगंज
लखनऊ-226 024



Indian Audit & Accounts Department
Office of the Accountant General
(Economic and Revenue Sector Audit), U.P.
6th Floor, Kendriya Bhawan, Sector 'H'
Aliganj, Lucknow - 226 024

स्पीड पोस्ट / गोपनीय

पत्रांक : म.ले.(इ. एण्ड आर.एस.ए) / इ.एस-11 / लेखा / केस्को / 2013-14 / 318
दिनांक: 6.10.15

सेवा में,

प्रबन्ध निदेशक
कानपुर इलेक्ट्रिसिटी सप्लाई कम्पनी लिमिटेड,
कानपुर।

महोदय,

एतत्सह कम्पनी अधिनियम, 1956 की धारा 619(4) के अधीन कानपुर इलेक्ट्रिसिटी सप्लाई कम्पनी लिमिटेड के 31 मार्च 2014 को समाप्त होने वाले वर्ष के लेखे पर भारत के नियंत्रक-महालेखापरीक्षक की टीका-टिप्पणियों कम्पनी अधिनियम 1956 की धारा 619(6) के निबन्धनों के अनुसरण में कम्पनी की वार्षिक सामान्य बैठक के समक्ष प्रस्तुत करने हेतु अंगीकृत की जा रही है। कृपया वार्षिक सामान्य बैठक के समक्ष इन टीका-टिप्पणियों को प्रस्तुत किये जाने की वास्तविक तिथि की सूचना दें।

The report has been prepared on the basis of information furnished and made available by the auditee. The Office of the Accountant General (Economic & Revenue Sector Audit), Uttar Pradesh disclaims any responsibility for any misinformation and/or non-information on the part of auditee.

DIR (Genl)	
C.E. (I)	
C.E. (C)	
S.E. (I)	
Dy. CAO	✓
P.A. (I)	
P.A. (C)	
E.E. (Bulk)	
E.E. (Purch.)	
O.S.O.	
RECEIVED	

कृपया पत्र की पावती भेजें।

सहपत्र-स्थोपरि

ACCAI
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महोदय
विनीता मिश्रा

(विनीता मिश्रा)
महालेखाकार

**COMMENTS OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA
UNDER SECTION 619 (4) OF THE COMPANIES ACT, 1956 ON THE
ACCOUNTS OF KANPUR ELECTRICITY SUPPLY COMPANY LIMITED FOR
THE YEAR ENDED 31 MARCH 2014.**

The preparation of the Financial Statement of the **Kanpur Electricity Supply Company Limited** for the year ended 31 March 2014 in accordance with the financial reporting framework prescribed under the Companies Act, 1956 is the responsibility of the management of the Company. The statutory auditors appointed by the Comptroller and Auditor General of India under Section 619(2) of the Companies Act, 1956 are responsible for expressing opinion on these financial statements under Section 227 of the Companies Act, 1956 based on independent audit in accordance with the Auditing and Assurance Standards prescribed by their professional body, the Institute of Chartered Accountants of India. This is stated to have been done by them vide their Audit Report dated 18 May 2015.

I, on behalf of Comptroller and Auditor General of India have conducted a supplementary audit under Section 619(3) (b) of the Companies Act, 1956 of the Financial Statements of **Kanpur Electricity Supply Company Limited** for the year ended 31 March 2014. This supplementary audit has been carried out independently without access to the working papers of the statutory auditors and is limited primarily to inquiries of the statutory auditors and company personnel and a selective examination of some of the accounting records. Based on my supplementary audit, I would like to highlight the following significant matters under Section 619(4) of the Companies Act, 1956 which have come to my notice and which in my view are necessary for enabling a better understanding of the financial statement and the related Audit Report:

1. General

(a) The Government of Uttar Pradesh vide order dated 16.09.2014 converted the equity into grant of ₹ 46.85 crore. Despite, Accounts of the Company for the year 2013-14 have been approved by the BOD after the date of the order, this important event has not been disclosed in the accounts as per requirement of Accounting Standard-4.

(b) The Government of Uttar Pradesh vide order dated 17 December 2014 ordered that the interest liability due on UP Government loan as on 31 March 2014 of ₹ 7.60 crore has been converted in to Equity. The necessary adjustments were made out of State Budget by the Govt of UP during the year 2014-15. This important event has not been disclosed in the accounts as per requirement of Accounting Standard-4.

Reconciliation Differences

(c) Due to non reconciliation of the inter-company balances of Current Liabilities vis-a-vis Current Assets, a difference of ₹ 94.45 lakh could not be taken in to account by the Company. This was also not disclosed in Notes on the Accounts.

Despite the comment of the Comptroller and Auditor General of India on the accounts of the Company for the year 2010-11 and 2012-13, no corrective action has been taken.

For and on behalf of the
Comptroller and Auditor General of India

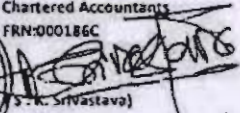
Vinita Mishra
Accountant General

Place: Lucknow

Date: 6-10-15

Kanpur Electricity Supply Company Limited
Balance Sheet as at 31st March, 2014

Particulars	Note No.	As at 31st March, 2014	As at 31st March, 2013
		₹	₹
A EQUITY AND LIABILITIES			
1 Shareholders' funds			
(a) Share Capital	3	1,631,474,000.00	1,631,474,000.00
(b) Reserves and Surplus	4	(31,702,699,436.30)	(24,972,478,625.77)
		(30,071,225,436.30)	(23,341,004,625.77)
2 Share application money pending allotment	40	508,932,000.00	0.00
3 Non-current liabilities			
(a) Long-term borrowings	5	28,651,915,466.03	16,983,148,936.00
(b) Long-term provisions	6	545,281,029.00	524,893,441.00
(c) Other Long term Liabilities	7	1,192,398,292.38	1,135,137,076.22
		30,389,594,787.41	18,643,179,453.22
4 Current liabilities			
(a) Short-term borrowings	8	384,197,713.42	227,797,713.42
(b) Trade Payables	9	6,734,389,199.51	10,178,033,645.57
(c) Other Current liabilities	10	14,652,846,535.39	15,330,086,862.49
(d) Short-term provisions	11	295,739,060.00	407,895,156.00
		22,067,172,508.32	26,143,813,377.48
TOTAL		22,894,473,859.43	21,445,988,204.93
B ASSETS			
1 Non-current assets			
(a) Fixed assets			
(i) Tangible assets	12	3,263,159,786.85	3,215,416,606.58
(ii) Capital work-in-progress	13	245,514,171.59	440,862,787.76
(b) Long-term loans and advances	14	351,533,817.71	235,130,717.00
(c) Other Non Current Assets			
		3,860,207,776.15	3,891,409,611.42
2 Current assets			
(a) Inventories	15	302,855,923.75	269,230,092.79
(b) Trade receivables	16	16,774,781,735.09	16,116,564,258.65
(c) Cash and Cash Equivalents	17	1,201,996,440.14	946,228,904.78
(d) Short-term loans and advances	18	283,587,546.39	208,914,030.38
(f) Other Current Assets	19	471,044,437.91	13,635,306.91
		19,034,266,083.28	17,554,578,593.51
TOTAL		22,894,473,859.43	21,445,988,204.93
Notes forming part of the Financial Statements	1 to 43		

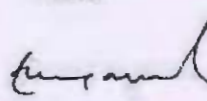
Auditor's Report
As per our separate report of even date
For P.L. Tandon & Co.
Chartered Accountants
FRN:000186C

S.K. Srivastava
Partner
M No:070455

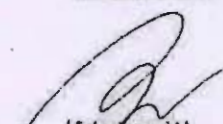



(Pankaj Saxena)
Dy C.A.O


(Abha Sethi Tandon)
Company Secretary

Dated: 18.05.2015
Place: Kanpur


(S. K. Agarwal)
Director


(Selva Kumari)
Managing Director

Kanpur Electricity Supply Company Limited
Statement of Profit and Loss for the year ended 31st March, 2014

Particulars		Note No.	2013-14	2012-13
			₹	₹
1	Revenue from Operations	20	15,452,423,726.09	11,457,204,958.13
2	Other Income	21	484,056,754.02	266,676,522.10
3	Total revenue		15,936,480,480.11	11,723,881,480.23
4	Expenses			
	(a) Purchase of Power	22	17,381,428,341.00	11,882,028,664.00
	(b) Employee benefit expenses	23	1,025,117,937.32	1,010,513,250.54
	(c) Finance Cost	24	3,024,433,207.09	1,947,875,596.28
	(d) Depreciation	12	177,630,212.36	172,634,405.07
	(e) Other expenses	25	1,067,831,279.60	2,159,496,502.17
	Total expenses		22,676,440,977.37	17,172,548,418.06
5	Loss for the year		(6,739,960,497.26)	(5,448,666,937.83)
6	Earnings per share (of ₹ 10/- each)			
	Basic	37	(41.31)	(34.05)
	Notes forming part of the Financial Statements	1 to 43		

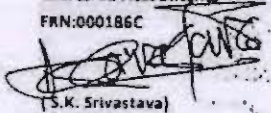
Auditor's Report

As per our separate report of even date

For P.L. Tandon & Co.

Chartered Accountants

FNN:000186C


(S.K. Srivastava)

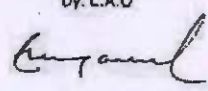
Partner

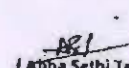
M No:070455

Dated: 18.05.2015

Place: Kanpur


(Pankaj Saxena)
Dy. C.A.O


(S. K. Agarwal)
Director

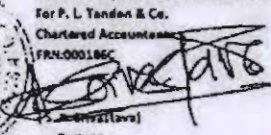

(Abha Sethi Tandon)
Company Secretary


(Selva Kumari)
Managing Director

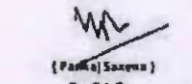
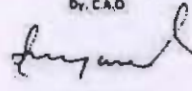
Kanpur Electricity Supply Company Limited
Cash Flow Statement for the year ended 31st March, 2014

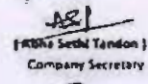
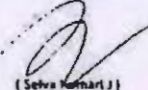
(Figures in lacs)

Particulars	For the year ended 31st March, 2014		For the year ended 31st March, 2013	
	₹	₹	₹	₹
A. Cash flow from operating activities				
Net Loss before extraordinary items and tax		(67,399.60)		(54,486.67)
Adjustments for:				
Prior period adjustments (Net)	188.50		(2,110.56)	
Depreciation	1,776.30		1,726.34	
Finance costs	30,244.33		19,478.76	
Interest income	(210.18)		(139.80)	
Provision for Trade receivables			13,543.41	
Provision for doubtful loans and advances	17.24			
		32,016.19		32,498.15
Operating loss before working capital changes		(35,383.41)		(21,988.52)
Changes in working capital:				
Adjustments for (increase) / decrease in operating assets:				
Inventories	(336.20)		-98.27	
Trade receivables	(6,582.17)		(10,549.09)	
Short-term loans and advances	(765.97)		(242.48)	
Increase in other Current Assets	(4,574.09)		(27.28)	
Long-term loans and advances	(1,164.04)	(13,420.47)	47.41	(10,669.72)
Adjustments for increase / (decrease) in operating liabilities:				
Trade payables	(34,436.44)		-134,238.87	
Short Term Borrowings	1,544.00		0.00	
Other current liabilities	-6,772.40		23,785.28	
Short-term provisions	-1,121.56		853.52	
Other Long Term Liabilities	572.61		635.59	
Long-term provisions	203.68	-39,989.92	(1,356.30)	-110,320.78
Changes in working capital		-53,410.39		-120,990.50
Cash generated from Operations		-88,793.81		-142,979.02
Prior period adjustments (Net) (above reverse sign)		-188.50		2,110.56
Net cash flow from operating activities (A)		-88,982.31		-140,868.46
B. Cash flow from investing activities				
Capital expenditure on fixed assets, including Capital WIP		(1,321.85)		(2,164.46)
Interest received from bank		210.18		139.80
Fixed deposit with bank		(10.89)		(10.02)
Net cash flow used in investing activities (B)		(1,122.56)		(2,034.68)
C. Cash flow from financing activities				
Share application money received		5,089.32		0.00
Increase in Long Term Borrowing		116,687.67		162,727.79
Repayment of short-term borrowings		0.00		0.00
Proceeds from consumer contribution and grant		1,119.00		2,005.48
Finance cost		(30,244.33)		(19,478.76)
Net cash flow from / (used in) financing activities (C)		92,651.65		145,254.52
Net Increase / (decrease) in Cash and cash equivalents (A+B+C)		2,546.79		2,351.38
Cash and cash equivalents at the beginning of the year		9,323.28		6,971.90
Cash and cash equivalents at the end of the year *		11,870.07		9,323.28
* Comprises:				
(a) Cash on hand		56.94		473.77
(b) Cheques, drafts on hand		1,842.05		2,475.69
(c) Balances with banks in current accounts		9,991.08		6,373.82
		11,870.07		9,323.28
Notes forming part of the financial statements				
		Diff	0.00	0.00

Auditor's Report
 As per our separate report of even date
 For P. L. Tandon & Co.
 Chartered Accountants
 FRN-000186C

 Partner
 M No.070455

Dated: 18.05.2015
 Place: Kanpur


 (Pankaj) Saxena
 Dy. C.A.O.

 (S. K. Agarwal)
 Director


 (Pankaj Sethi Tandon)
 Company Secretary

 (Sehra Nathani J)
 Managing Director

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

Note 1 : CORPORATE INFORMATION

Kanpur Electricity Supply Company (KESCO) is the wholly owned subsidiary of Uttar Pradesh Power Corporation Limited (UPPCL) and is engaged in the distribution of electricity to consumers of Kanpur City.

Kanpur Electricity Supply Company (KESCO), a company registered under the Companies Act, 1956 was incorporated through the Transfer Scheme dated 15th January, 2000, wherein the assets, liabilities and personnel of Kanpur Electricity Supply Administration (KESA) under erstwhile Uttar Pradesh State Electricity Board (UPSEB) were transferred to KESCO. Subsequently the UP Electricity Regulatory Commission, in exercise of the powers conferred on it under Section 15 of the Uttar Pradesh Electricity Reform Act, 1999 (Uttar Pradesh Act No.24 of 1999), granted KESCO on 4th October 2000 a distribution license for a period of 30 years for carrying out the business of Distribution and Retail Supply of electrical energy within its license area.

Note 2 : SIGNIFICANT ACCOUNTING POLICIES

i. Basis of preparation

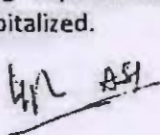
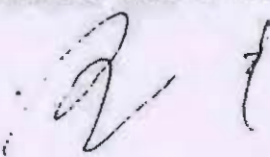
The financial statements are prepared under historical cost convention on accrual basis of accounting and in accordance with the provisions of the Companies Act, 1956 and comply with the Accounting Standards notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

ii. Use of estimates

The preparation of the financial statements in conformity with the generally accepted accounting principles requires the management to make estimates and assumptions that affect the reported amounts of assets and liabilities on the date of the financial statements, disclosure of contingent liabilities and reported amounts of revenue and expenses for the year. Estimates are based on historical experience, where applicable and other assumptions that the management believes are reasonable under the circumstances. Actual results could vary from these estimates and any such differences are dealt with in the period in which the results are known/ materialise.

iii. Fixed Assets

- a. All Fixed Assets (except those taken over from erstwhile KESA Zone) are shown at historical cost less accumulated depreciation.
- b. All costs relating to the acquisition or construction and installation of Fixed Assets, including departmental overhead costs till the date of commissioning are capitalized.

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

- c. In the case of commissioned assets where final settlement of bill with the contractors is yet to be effected, capitalization is done subject to necessary adjustments in the year of final settlement.
- d. Employee cost and other General and Administration expenses relating to Capital Works are capitalized alongwith the corresponding Fixed Asset on actual basis so far as it relates to the Construction Division. Further, expenses relating to other divisions are also capitalized on proportionate basis. With respect to APDRP schemes, additional 1% of cost is capitalized to cover the supervision cost of such schemes by the Distribution divisions.
- e. Amounts received as contribution, grant and subsidy towards the Cost of Capital Assets are credited to Capital Reserve and an amount equal to the depreciation on the assets created out of consumer's contribution, grants and subsidy is transferred from the Reserve to Statement of Profit and Loss (netted off from depreciation account) in compliance with AS -12: Accounting for Government Grants notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

iv. Capital Work in Progress

Materials issued to Capital WIP are valued at Cost.

v. Depreciation

- a. Depreciation on all the assets is provided for on Straight Line method on pro rata basis as per the rates prescribed in Schedule XIV of the Companies Act, 1956.
- b. Depreciation on all the assets is provided for upto 95% of the original cost of such assets

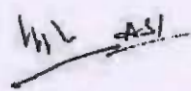
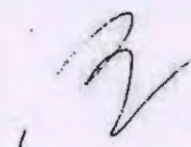
vi. Investments

Long term investments are stated at cost. However, provision for diminution in value is made to recognize a decline "other than temporary" in the value of the investments.

Current investments are stated at lower of cost or net realizable value.

vii. Stores and Spares

Inventories comprising of Stores and Spares are valued at cost using 'FIFO' method.

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

viii. Valuation of Scrap

As per practice consistently followed by the Company, Scrap is accounted for as and when sold.

ix. Contribution, Grants & Subsidy towards Cost of Capital Assets.

Consumers' Contribution, Grants and Subsidies received towards Cost of Capital Assets are treated initially as Capital Receipts and are credited to Capital Reserve. The assets created out of Consumers' Contribution, Grants and Subsidies i.e. lines, cables, networks etc are shown as assets and the Consumers' Contribution, Grant and Subsidy to the extent of depreciation provided during the year on such assets is transferred to Statement of Profit and Loss and netted off from total depreciation by debiting Capital Reserve Account

x. Borrowing Costs

Borrowing costs that are directly attributable to the acquisition, construction or production of qualifying assets are capitalized as part of the cost of such asset. Other borrowing costs are recognized as an expense in the period in which they are incurred.

xi. Retirement and other employee benefits

- a. Retirement benefits in the form of Provident fund (CPF) are defined contribution schemes and these contributions are charged to Statement of Profit and Loss in the period in which these become due to the respective funds.
- b. Deductions towards GPF from the salaries of staff are remitted to the UP State Power Sector Employees Trust, Lucknow as per the decision of the U.P. Government /UPPCL.
- c. The liability for payment of Pension and Gratuity in respect of employees of the erstwhile UPSEB has been taken over by U.P. State Power Sector Employees Trust and liability of the Company is limited to a contribution of 16.70% and 2.38% respectively of the amount of Basic Pay and Dearness Allowance paid to the employees. Provision for such retirement benefits is accordingly accounted for on the basis of the contribution on accrual basis.
- d. Employees appointed on or after 15.01.2000 are covered under CPF Scheme and entitled to gratuity under The Payment of Gratuity Act, 1972, whereas the other employees are covered under the UP State Power Sector Employees Trust, Lucknow. Provision for employees appointed on or after 15.01.2000 towards gratuity is made as per provisions of The Payment of Gratuity Act, 1972.



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KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

- e. Provision towards accrued leave encashment is estimated on the basis of balance leaves available to the credit of the employees as at the year end upto the maximum allowable limit of 300 days. Leave encashment is payable as per respective government/ UPPCL order at the time of retirement/ death and is accrued on the basis of the gross amount of the Basic Pay and Dearness allowance.

xii. Revenue/ Expenditure recognition

- a. Revenue from Sale of Energy is accounted for on the basis of bills raised on consumers.
- b. Sale of Energy, Minimum Consumption Guarantee (MCG) to consumers and late payment surcharge is accounted for on the basis of tariff rates notified and approved by UP Electricity Regulatory Commission.
- c. All prior period Income and Expenditure are shown in the current period as a distinct item, as per the requirements of AS-5 "Net profit or loss for the period, prior period items and change in accounting policy" notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.
- d. In case of bonafide consumers indulged in theft/illegal use of electricity, the revenue is recognized on accrual basis on the basis of bills raised. However, in case of non- bonafide consumers i.e. 'Katia Connections' and of temporary connections i.e. marriages, new construction of houses etc. the revenue is recognized on cash basis.
- e. Subsidy, Grant, Insurance and other claims, Interest on Income Tax and Trade Tax and late payment surcharge from consumers are accounted for on cash basis except Grant receivable from UPPCL which is accounted for on the basis of allotment made by UPPCL.

xiii. Purchase of Power

Power purchased from UPPCL has been accounted for on accrual basis at the rates approved by UPPCL in term of O.M. No. 3822/EIESPC dt. 10.12.2014 for the financial year 2012-13 and as per O.M. No. 625 (i)/Elect. Import Export & Payment circle dt. 25.02.2015 for the financial year 2013-14.

xiv. Provision for Bad Debts

The provision for doubtful debts from consumers is provided for @ 15% of the incremental value of the Receivables.

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KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

xv. Provisions, Contingent Liabilities and Contingent assets

A provision is recognised when the Company has a present obligation as a result of past event and it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made based on technical valuation and past experience. Provisions are not discounted to its present value and are determined based on the management estimate required to settle the obligation at the Balance Sheet date. No provision is recognized for liabilities whose future outcome cannot be ascertained with reasonable certainties. Such contingent liabilities are not recognized but are disclosed in the notes to the accounts on the basis of judgment of the management. These are reviewed at each balance sheet date and adjusted to reflect the current management estimate.

xvi. Taxation

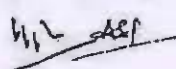
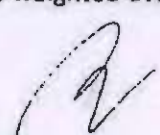
Tax expense comprises of current, deferred and fringe benefit tax. Current income tax and fringe benefit tax is measured at the amount expected to be paid to the tax authorities in accordance with the *Income-tax Act, 1961* enacted in India. Deferred income taxes reflects the impact of current year timing differences between taxable income and accounting income for the year and reversal of timing differences of earlier years in terms of mandatory Accounting Standard (AS) 22 : Accounting for Taxes on Income notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

Deferred tax is measured based on the tax rates and the tax laws enacted or substantively enacted at the balance sheet date. Deferred tax assets and deferred tax liabilities are offset, if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred tax assets and deferred tax liabilities relate to the taxes on income levied by same governing taxation laws. Deferred tax assets are recognised only to the extent that there is reasonable certainty that sufficient future taxable income will be available against which such deferred tax assets can be realised. In situations where the company has unabsorbed depreciation or carry forward tax losses, all deferred tax assets are recognised only if there is virtual certainty supported by convincing evidence that they can be realised against future taxable profits.

At each Balance Sheet date the Company re-assesses unrecognised deferred tax assets. It recognises unrecognised deferred tax assets to the extent that it has become reasonably certain or virtually certain, as the case may be that sufficient future taxable income will be available against which such deferred tax assets can be realised.

xvii. Earnings per share

Basic earnings per share is calculated by dividing the net profit/(loss) for the year attributable to equity shareholders by the weighted average number of equity shares outstanding during the period.

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

For the purpose of calculating diluted earnings per share, the net profit/(loss) for the year attributable to equity shareholders and the weighted average number of shares outstanding during the year are adjusted for the effects of all dilutive potential equity shares.

xviii. Cash Flow Statement

Cash flows are reported using the indirect method, whereby profit/ (loss) before extraordinary items and tax is adjusted for the effects of transactions of non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from operating, investing and financing activities of the Company are segregated based on the available information.

xix. Cash and cash equivalents

Cash comprises cash on hand and demand deposits with banks. Cash equivalents are short-term balances (with an original maturity of three months or less from the date of acquisition), highly liquid investments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in value.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 3 - SHARE CAPITAL

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	Number of shares	₹	Number of shares	₹
(i) Authorised				
Equity shares of ₹ 10 each	300,000,000	3,000,000,000.00	300,000,000	3,000,000,000.00
	300,000,000	3,000,000,000.00	300,000,000	3,000,000,000.00
(ii) Issued				
Equity shares of ₹ 10 each	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
(iii) Subscribed and fully paid up				
Equity shares of ₹ 10 each	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00

- 1) During the period 15th January 2000 to 31st March 2000, 5,99,99,300 Equity Shares were allotted to UPPCL (Holding Company) as fully paid up pursuant to Uttar Pradesh Transfer of KESA Zone Electricity Distribution Scheme, 2000 without payment being received in cash.
2) During the year 2013-14 the company has not allotted any share.

(i) Reconciliation of the number of shares and amount outstanding at the beginning and at the end of the reporting period:

Particulars	Opening Balance	Fresh Issue during the year	Closing Balance
(a) Issued Equity Shares			
Year ended 31st March, 2014			
Number of shares	163,147,400.00	0.00	163,147,400
Amount (₹)	1,631,474,000.00	0.00	1,631,474,000.00
Year ended 31st March, 2013			
Number of shares	158,280,000.00	48,674,000.00	163,147,400
Amount (₹)	1,582,800,000.00	48,674,000.00	1,631,474,000.00
(b) Subscribed and fully paid up Equity shares			
Year ended 31st March, 2014			
Number of shares	163,147,400.00	0.00	163,147,400
Amount (₹)	1,631,474,000.00	0.00	1,631,474,000.00
Year ended 31st March, 2013			
Number of shares	158,280,000.00	48,674,000.00	163,147,400
Amount (₹)	1,582,800,000.00	48,674,000.00	1,631,474,000.00

(ii) Details of shares held by the holding company :

Particulars	Equity shares
	Number of shares
As at 31st March, 2014	
Uttar Pradesh Power Corporation Limited	153,146,700
As at 31st March, 2013	
Uttar Pradesh Power Corporation Limited	153,146,700

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

(iii) Details of shares held by shareholder holding more than 5% shares:

Class of shares / Name of shareholder	As at 31st March, 2014		As at 31st March, 2013	
	Number of shares held	% holding	Number of shares held	% holding
Equity shares				
Uttar Pradesh Power Corporation Limited	163,146,700	99.9996%	163,146,700	99.9996%

(iv) The company has only one class of equity shares having par value of ₹ 10 per share. Each equity share is entitled to one vote.

In the event of liquidation of the Company the holders of equity share will be entitled to receive the assets in proportion to the number of equity shares held by each of them.

NOTE 4 : RESERVES & SURPLUS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
(a) Capital Reserves (contribution, grants & subsidy towards cost of capital assets)		
Opening balance	2,155,285,281.16	1,954,737,412.82
Add: Additions during the year (consumer contribution received during the year)	111,900,085.73	200,547,858.34
	2,267,185,366.89	2,155,285,281.16
Less : Deduction during the year (amortised till 31st March 2014)	(761,245,829.92)	(659,085,430.92)
Closing balance	1,505,939,536.97	1,496,199,850.24
(b) Deficit in Statement of Profit and Loss		
Opening balance	(26,468,678,476.01)	(21,020,011,538.18)
Add: Loss for the year	(6,739,960,497.26)	(5,448,666,937.83)
Closing balance	(33,208,638,973.27)	(26,468,678,476.01)
Total	(31,702,699,436.30)	(24,972,478,625.77)



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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 5 : LONG TERM BORROWINGS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Secured Term loans (Refer note below)		
(i) From UPPCL (Holding Company)		
Loan Outstanding As on 31/03/2014	1,950,000,000.00	
Less: Amount overdue shown as current liability under Note - 10	1,950,000,000.00	0.00
	0.00	0.00
(ii) Rural Electrification Corporation Limited	900000000.00	900000000.00
(iii) Term Loan from Banks & Others (through UPPCL)	16442818085.03	14538447759.00
Syndicate Bank	189003841.00	
Krur Vysya Bank	21325539.73	
State Bank of India	663729272.00	
Punjab National Bank	2157419120.00	
Vijay Bank	518313323.37	
Union Bank of India	1265690662.00	
Allahabad Bank	831602189.00	
Indian Overseas Bank	505616525.00	
Dena Bank	386097458.00	
Central Bank of India	1835647184.05	
Bank of Maharashtra	260311719.00	
UCO Bank	847786462.00	
Bank of Baroda	351140083.64	
Oriental Bank of Commerce	1064046327.00	
Bank of India	424183990.00	
South Indian Bank	109369052.00	
Punjab and Sind Bank	536209948.00	
Federal Bank	53932304.24	
Corporation Bank	638644056.00	
Canara Bank	1599001909.00	
PFC Transitional Loan	1100944760.00	
REC Loan	1082802360.00	
(iv) Power Finance Corporation Limited		
Loan Outstanding As on 31/03/2014	1523474381.00	
Less: Amount shown as current liabilities sch 10	105350728.00	1,418,123,653.00
		1,523,474,377.00
	18,760,941,738.03	16,961,922,136.00
Unsecured Term loan (Refer note below)		
Loan from State Government through UPPCL (APDRP)		
Less: Amount overdue shown as other current liabilities		21,226,800.00
Note no. 10		
Bonds	9,890,973,728.00	
	9,890,973,728.00	21,226,800.00
Total	28,651,915,466.03	16,983,148,936.00



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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

Notes on loans:

- (a) Loan from Uttar Pradesh Power Corporation Ltd (Rs 195.00 Crores)
 (i) Secured loan from UPPCL of ₹ 110.00 Crores are secured by way of the first charge over the distribution system and the distribution assets of the erstwhile KESA as transferred to KESCO by the transfer scheme as on the appointed date.
 (ii) Terminal benefit liabilities of ₹ 85.00 crores as on 15.01.2000 transferred to KESCO as per the transfer scheme were taken over by the State Government vide its order no. 3972 dated 09.02.2004. The said amount of ₹ 85.00 Crores has been considered as Secured loan from UPPCL even though the loan agreement between the parties is pending to be executed, and accordingly the Security details cannot be ascertained.
 The above term loans are fully overdue hence the same has been reclassified as Other Current Liabilities under Note No. 10.
Rate of Interest
 The Board of Directors of UPPCL had resolved on the 19th of October 2005 that the interest would not be payable by KESCO to UPPCL till such time it does not earn profit accordingly, no provision has been made during the year by the Company for the liability on account of the aforesaid interest and surcharge.

DEFAULT IN REPAYMENT OF INTEREST & PRINCIPAL AMOUNT

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	Period of default	₹	Period of default	₹
Term loans from UPPCL (Holding Company)				
Term Loan	5 years	1,100,000,000.00	4 years	1,100,000,000.00
Terminal Benefit Liability	Refer Note below	850,000,000.00	Refer Note below	850,000,000.00
Loan from State Government through UPPCL (APDRP)				
Principal Amount	Since 2004-05		Since 2004-05	15,835,865.00
Interest Amount	Since 2004-05		Since 2004-05	43,989,005.20

Terminal Benefit Liability : In the absence of any agreement having been executed the period of default of the Term Loan of ₹ 85 Crores cannot be ascertained.

(b) **Rural Electrification Corporation:** This loan has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. The loan carry a interest of 13.25% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter.

(c) **Term loan from Banks & Others (through UPPCL):** These loans have been taken from various financial institutions and others and have been transferred by UPPCL to the company. These are secured against Trade Receivables by the company. The loan is repayable in 84 monthly equated installments after a moratorium of 36 months and due for repayment starting from April 2015 except loan taken from Mandi Parishad and Noida which are interest free

(d) Power Finance Corporation Limited

The Secured loan from Power Finance Corporation Limited is secured by the hypothecation by way of first charge over the whole of the moveable assets of the Company under the APDRP scheme including replacement thereof whether stores, lying loose or in transit. An additional loan amounting to Rs. 90.00 crore has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. This additional loan carry a interest of 12.62% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter. Terms and condition of old loan are given hereunder.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

2 : PFC 08421003 : In respect of this project, KESCO & Corporation executed a Memorandum of Agreement dated 06.11.2006 whereby the Corporation agreed to grant an additional loan of ₹ 16.07 Crore.

Owing to an increase in the revised cost of the project from ₹ 64.28 Crore to ₹ 94.66 Crore, the Corporation further agreed to enhance the loan amount from ₹ 16.07 Crore to ₹ 46.45 Crore by granting an additional loan of ₹ 30.38 Crore on the terms & conditions contained in Corporation's letter dated 30th March 2007.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
15th December 2006	24,100,000.00	The loan to be repaid in Forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum, of Agreement. The first installment became due on the 15th day of October 2008 and the subsequent installments became due for payment on the 15th day of July, October, January and April, every year.
01st February 2007	23,988,745.00	
27th February 2007	106,370.00	
02nd March 2007	23,707,625.00	
23rd March 2007	24,018,516.00	
30th March 2007	22,955,473.00	
09th May 2007	18,488,322.00	
15th June 2007	9,051,352.00	
09th July 2007	9,139,592.00	
14th August 2007	3,805,184.00	
19th September 2007	45,575,000.00	
04th December 2007	29,256,126.00	
09th January 2008	26,819,025.00	
18th March 2008	22,930,881.00	
11th April 2008	29,598,409.00	
12th July 2010	22,396,889.00	
18th October 2010	2,183,950.00	
15th March 2011	9,589,002.00	
30th March 2011	53,218,401.00	
	400,828,862.00	

Rate of Interest

As per the Agreement executed between the parties, KESCO was to pay interest at the rates as applicable on the date of each disbursement along with interest tax at the rate applicable time to time pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2013-14 varied from 11.75% to 13.25% as per Statement received from PFC.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

TERMS OF REPAYMENT AND RATE OF INTEREST ON LOAN

1: PFC 98621002 : Corporation sanctioned a loan of ₹ 32.14 Crore for the implementation of the Kanpur Town / Circle Scheme under APDRP, involving a total cost of ₹ 64.28 Crore on the terms & conditions contained in the corporation's letter dated 28th July 2005 & amendment thereof dated 15th September 2005.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
10th October 2005	48,210,000.00	The loan shall be repaid in forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum of Agreement. The first installment will become due on 15th day of April 2007.
21st November 2005	69,072,855.00	
30th December 2005	66,496,619.00	
31st January 2006	- 60,168,132.00	
26th April 2006	33,917,311.00	
4th July 2006	760,381.00	
10th November 2006	42,774,702.00	
	321,400,000.00	

Rate of Interest

As per the Agreement executed between the parties, KESCo was to pay interest at the rates as applicable on the date of each disbursement pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2013-14 is 13.25 % as per the Statement received from PFC.

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Kanpur Electricity Supply Company Limited
Balance Sheet as at 31st March, 2014

Particulars		Note No.	As at 31st March, 2014	As at 31st March, 2013
			₹	₹
A	EQUITY AND LIABILITIES			
1	Shareholders' funds			
	(a) Share Capital	3	1,631,474,000.00	1,631,474,000.00
	(b) Reserves and Surplus	4	(31,702,699,436.30)	(24,972,478,625.77)
			(30,071,225,436.30)	(23,341,004,625.77)
2	Share application money pending allotment	40	508,932,000.00	0.00
3	Non-current liabilities			
	(a) Long-term borrowings	5	28,651,915,466.03	16,985,148,936.00
	(b) Long-term provisions	6	545,281,029.00	524,893,441.00
	(c) Other Long term Liabilities	7	1,192,398,292.38	1,135,137,076.22
			30,389,594,787.41	18,643,179,453.22
4	Current liabilities			
	(a) Short-term borrowings	8	384,197,713.42	227,797,713.42
	(b) Trade Payables	9	6,734,389,199.51	10,178,033,645.57
	(c) Other Current liabilities	10	14,652,846,535.39	15,330,086,862.49
	(d) Short-term provisions	11	295,739,060.00	407,895,156.00
			22,067,172,508.32	26,143,813,377.48
	TOTAL		22,894,473,859.43	21,445,988,204.93
B	ASSETS			
1	Non-current assets			
	(a) Fixed assets			
	(i) Tangible assets	12	3,263,159,786.85	3,215,416,606.58
	(ii) Capital work-in-progress	13	245,514,171.59	440,862,787.76
	(b) Long-term loans and advances	14	351,533,817.71	235,130,717.00
	(c) Other Non Current Assets			
			3,860,207,776.15	3,891,409,611.42
2	Current assets			
	(a) Inventories	15	302,855,923.75	269,236,092.79
	(b) Trade receivables	16	16,774,781,735.09	16,116,564,258.65
	(c) Cash and Cash Equivalents	17	1,201,996,440.14	946,228,904.78
	(d) Short-term loans and advances	18	283,587,546.39	208,914,030.38
	(f) Other Current Assets	19	471,044,437.91	13,635,306.91
			19,034,266,083.28	17,554,578,593.51
	TOTAL		22,894,473,859.43	21,445,988,204.93
	Notes forming part of the Financial Statements	1 to 43		

Auditor's Report
As per our separate report of even date
For P.L. Tandon & Co.
Chartered Accountants



FRN:000186C
S. K. Srivastava)
Partner
M No:070455

(Pankaj Saxena)
Dy C.A.O

(Abha Sethi Tandon)
Company Secretary

Dated: 18.05.2015
Place: Kanpur

(S. K. Agarwal)
Director

(Selva Kumari I)
Managing Director

Kanpur Electricity Supply Company Limited
Statement of Profit and Loss for the year ended 31st March, 2014

Particulars		Note No.	2013-14 ₹	2012-13 ₹
1	Revenue from Operations	20	15,452,423,726.09	11,457,204,958.13
2	Other Income	21	484,056,754.02	266,676,522.10
3	Total revenue		15,936,480,480.11	11,723,881,480.23
4	Expenses			
	(a) Purchase of Power	22	17,381,428,341.00	11,882,028,664.00
	(b) Employee benefit expenses	23	1,025,117,937.32	1,010,513,250.54
	(c) Finance Cost	24	3,024,433,207.09	1,947,875,596.28
	(d) Depreciation	12	177,630,212.36	172,634,405.07
	(e) Other expenses	25	1,067,831,279.60	2,159,496,502.17
	Total expenses		22,676,440,977.37	17,172,548,418.06
5	Loss for the year		(6,739,960,497.26)	(5,448,666,937.83)
6	Earnings per share (of ₹ 10/- each)			
	Basic	37	(41.31)	(34.05)
Notes forming part of the Financial Statements		1 to 43		

Auditor's Report

As per our separate report of even date

For P.L. Tandon & Co.

Chartered Accountants

FRN:000186C


(S.K. Srivastava)

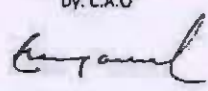
Partner

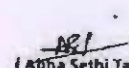
M No:070455

Dated: 18.05.2015

Place: Kanpur


(Pankaj Saxena)
Dy. C.A.O


(S. K. Agarwal)
Director


(Adha Sethi Tandon)
Company Secretary


(Selva Kumari J)
Managing Director

Kanpur Electricity Supply Company Limited
Balance Sheet as at 31st March, 2014

Particulars	Note No.	As at 31st March, 2014	As at 31st March, 2013
		₹	₹
A EQUITY AND LIABILITIES			
1 Shareholders' funds			
(a) Share Capital	3	1,631,474,000.00	1,631,474,000.00
(b) Reserves and Surplus	4	(31,702,699,436.30)	(24,972,478,625.77)
		(30,071,225,436.30)	(23,341,004,625.77)
2 Share application money pending allotment	40	508,932,000.00	0.00
3 Non-current liabilities			
(a) Long-term borrowings	5	28,651,915,466.03	16,984,148,936.00
(b) Long-term provisions	6	545,281,029.00	524,893,441.00
(c) Other Long term Liabilities	7	1,192,398,292.38	1,135,137,076.22
		30,389,594,787.41	18,643,179,453.22
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TOTAL		22,894,473,859.43	21,445,988,204.93
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(b) Long-term loans and advances	14	351,533,817.71	235,130,217.00
(c) Other Non Current Assets			
		3,860,207,776.15	3,891,409,611.42
2 Current assets			
(a) Inventories	15	302,855,923.75	269,236,092.79
(b) Trade receivables	16	16,774,781,735.09	16,116,564,258.65
(c) Cash and Cash Equivalents	17	1,201,996,440.14	946,228,904.78
(d) Short-term loans and advances	18	283,587,546.39	208,914,030.38
(f) Other Current Assets	19	471,044,437.91	13,635,306.91
		19,034,266,083.28	17,554,578,593.51
TOTAL		22,894,473,859.43	21,445,988,204.93
Notes forming part of the Financial Statements	1 to 43		

Auditor's Report
As per our separate report of even date
For P.L. Tandon & Co.

Chartered Accountants
FRN:000186C



(S. K. Srivastava)
Partner
M No:070455

(Pankaj Saxena)
Dy C.A.O

(Abha Sethi Tandon)
Company Secretary

Dated: 18.05.2015
Place: Kanpur

(S. K. Agarwal)
Director

(Selva Kumari)
Managing Director

Kanpur Electricity Supply Company Limited
Statement of Profit and Loss for the year ended 31st March, 2014

Particulars		Note No.	2013-14 ₹	2012-13 ₹
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2	Other Income	21	484,056,754.02	266,676,522.10
3	Total revenue		15,936,480,480.11	11,723,881,480.23
4	Expenses			
	(a) Purchase of Power	22	17,381,428,341.00	11,882,028,664.00
	(b) Employee benefit expenses	23	1,025,117,937.32	1,010,513,250.54
	(c) Finance Cost	24	3,024,433,207.09	1,947,875,596.28
	(d) Depreciation	12	177,630,212.36	172,634,405.07
	(e) Other expenses	25	1,067,831,279.60	2,159,496,502.17
	Total expenses		22,676,440,977.37	17,172,548,418.06
5	Loss for the year		(6,739,960,497.26)	(5,448,666,937.83)
6	Earnings per share (of ₹ 10/- each)			
	Basic	37	(41.31)	(34.05)
Notes forming part of the Financial Statements		1 to 43		

Auditor's Report
As per our separate report of even date
For P.L. Tandon & Co.
Chartered Accountants
FRN:000186C

(S.K. Srivastava)
Partner
M No:070455

Dated: 18.05.2015
Place: Kanpur

(Pankaj Saxena)
Dy. C.A.O

(S. K. Agarwal)
Director

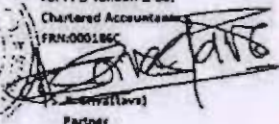
(Atisha Sethi Tandon)
Company Secretary

(Selva Kumari J)
Managing Director

Kanpur Electricity Supply Company Limited
Cash Flow Statement for the year ended 31st March, 2014

(Figures in lacs)

Particulars	For the year ended 31st March, 2014		For the year ended 31st March, 2013	
	₹	₹	₹	₹
A. Cash flow from operating activities				
Net Loss before extraordinary items and tax		(57,199.60)		(54,486.67)
Adjustments for:				
Prior period adjustments (Net)	188.50		(2,110.56)	
Depreciation	1,776.30		1,726.34	
Finance costs	30,244.33		19,478.76	
Interest income	(218.18)		(139.80)	
Provision for Trade receivables			13,543.41	
Provision for doubtful loans and advances	17.24			
		32,016.19		32,498.15
Operating loss before working capital changes		(35,383.41)		(21,988.52)
Changes in working capital:				
Adjustments for (increase) / decrease in operating assets:				
Inventories	(336.20)		-98.27	
Trade receivables	(6,582.17)		(10,349.09)	
Short-term loans and advances	(765.97)		(242.49)	
Increase in other Current Assets	(4,574.09)		(27.28)	
Long-term loans and advances	(1,164.04)	(13,420.47)	47.41	(10,649.72)
Adjustments for increase / (decrease) in operating liabilities:				
Trade payables	(34,436.44)		-134,238.87	
Short Term Borrowings	1,564.00		0.00	
Other current liabilities	-6,772.40		23,785.28	
Short-term provisions	-1,121.56		853.52	
Other Long Term Liabilities	572.61		635.59	
Long-term provisions	203.85	-39,989.92	(1,356.30)	-110,320.78
Changes in working capital		-53,430.39		-120,990.50
Cash generated from Operations		-88,793.81		-142,979.02
Prior period adjustments (Net) (above reverse sign)		-188.50		2,110.56
Net cash flow from operating activities (A)		-88,982.31		-140,868.46
B. Cash flow from investing activities				
Capital expenditure on fixed assets, including Capital WIP		(1,321.85)		(2,164.46)
Interest received from bank		210.18		139.80
Fixed deposit with bank		(10.89)		(10.02)
Net cash flow used in investing activities (B)		(1,122.56)		(2,034.68)
C. Cash flow from financing activities				
Share application money received		5,089.32		0.00
Increase in Long Term Borrowing		116,687.67		162,727.79
Repayment of short-term borrowings		0.00		0.00
Proceeds from consumer contribution and grant		1,115.00		2,005.48
Finance cost		(30,244.33)		(19,478.76)
Net cash flow from / (used in) financing activities (C)		92,651.65		145,254.52
Net Increase / (decrease) in Cash and cash equivalents (A+B+C)		2,546.79		2,351.38
Cash and cash equivalents at the beginning of the year		9,323.28		6,971.90
Cash and cash equivalents at the end of the year *		11,870.07		9,323.28
* Comprises:				
(a) Cash on hand		36.94		473.77
(b) Cheques, drafts on hand		1,842.05		2,475.63
(c) Balances with banks in current accounts		9,991.08		6,373.82
		11,870.07		9,323.28
Notes forming part of the financial statements				
	Diff	0.00		0.00

Auditor's Report
 As per our separate report of even date
 For P. L. Tandon & Co.
 Chartered Accountants
 FRN:000186C

 Partner
 M No. 870455

Dated: 18.05.2015
 Place: Kanpur

(Pankaj Saxena)
 Dr. C.A.O.

(S. K. Agarwal)
 Director

(Rishi Sethi Tandon)
 Company Secretary

(Sonia Kumar J.)
 Managing Director

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

Note 1 : CORPORATE INFORMATION

Kanpur Electricity Supply Company (KESCO) is the wholly owned subsidiary of Uttar Pradesh Power Corporation Limited (UPPCL) and is engaged in the distribution of electricity to consumers of Kanpur City.

Kanpur Electricity Supply Company (KESCO), a company registered under the Companies Act, 1956 was incorporated through the Transfer Scheme dated 15th January, 2000, wherein the assets, liabilities and personnel of Kanpur Electricity Supply Administration (KESA) under erstwhile Uttar Pradesh State Electricity Board (UPSEB) were transferred to KESCO. Subsequently the UP Electricity Regulatory Commission, in exercise of the powers conferred on it under Section 15 of the Uttar Pradesh Electricity Reform Act, 1999 (Uttar Pradesh Act No.24 of 1999), granted KESCO on 4th October 2000 a distribution license for a period of 30 years for carrying out the business of Distribution and Retail Supply of electrical energy within its license area.

Note 2 : SIGNIFICANT ACCOUNTING POLICIES

i. Basis of preparation

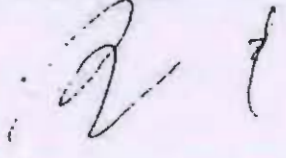
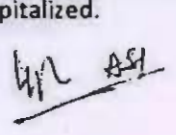
The financial statements are prepared under historical cost convention on accrual basis of accounting and in accordance with the provisions of the Companies Act, 1956 and comply with the Accounting Standards notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

ii. Use of estimates

The preparation of the financial statements in conformity with the generally accepted accounting principles requires the management to make estimates and assumptions that affect the reported amounts of assets and liabilities on the date of the financial statements, disclosure of contingent liabilities and reported amounts of revenue and expenses for the year. Estimates are based on historical experience, where applicable and other assumptions that the management believes are reasonable under the circumstances. Actual results could vary from these estimates and any such differences are dealt with in the period in which the results are known/ materialise.

iii. Fixed Assets

- a. All Fixed Assets (except those taken over from erstwhile KESA Zone) are shown at historical cost less accumulated depreciation.
- b. All costs relating to the acquisition or construction and installation of Fixed Assets including departmental overhead costs till the date of commissioning are capitalized.



KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

- c. In the case of commissioned assets where final settlement of bill with the contractors is yet to be effected, capitalization is done subject to necessary adjustments in the year of final settlement.
- d. Employee cost and other General and Administration expenses relating to Capital Works are capitalized alongwith the corresponding Fixed Asset on actual basis so far as it relates to the Construction Division. Further, expenses relating to other divisions are also capitalized on proportionate basis. With respect to APDRP schemes, additional 1% of cost is capitalized to cover the supervision cost of such schemes by the Distribution divisions.
- e. Amounts received as contribution, grant and subsidy towards the Cost of Capital Assets are credited to Capital Reserve and an amount equal to the depreciation on the assets created out of consumer's contribution, grants and subsidy is transferred from the Reserve to Statement of Profit and Loss (netted off from depreciation account) in compliance with AS -12: Accounting for Government Grants notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

iv. Capital Work in Progress

Materials issued to Capital WIP are valued at Cost.

v. Depreciation

- a. Depreciation on all the assets is provided for on Straight Line method on pro rata basis as per the rates prescribed in Schedule XIV of the Companies Act, 1956.
- b. Depreciation on all the assets is provided for upto 95% of the original cost of such assets

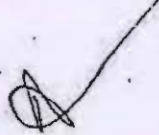
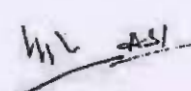
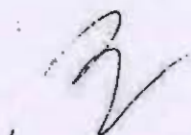
vi. Investments

Long term investments are stated at cost. However, provision for diminution in value is made to recognize a decline "other than temporary" in the value of the investments.

Current investments are stated at lower of cost or net realizable value.

vii. Stores and Spares

Inventories comprising of Stores and Spares are valued at cost using 'FIFO' method.

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

viii. Valuation of Scrap

As per practice consistently followed by the Company, Scrap is accounted for as and when sold.

ix. Contribution, Grants & Subsidy towards Cost of Capital Assets.

Consumers' Contribution, Grants and Subsidies received towards Cost of Capital Assets are treated initially as Capital Receipts and are credited to Capital Reserve. The assets created out of Consumers' Contribution, Grants and Subsidies i.e. lines, cables, networks etc are shown as assets and the Consumers' Contribution, Grant and Subsidy to the extent of depreciation provided during the year on such assets is transferred to Statement of Profit and Loss and netted off from total depreciation by debiting Capital Reserve Account

x. Borrowing Costs

Borrowing costs that are directly attributable to the acquisition, construction or production of qualifying assets are capitalized as part of the cost of such asset. Other borrowing costs are recognized as an expense in the period in which they are incurred.

xi. Retirement and other employee benefits

- a. Retirement benefits in the form of Provident fund (CPF) are defined contribution schemes and these contributions are charged to Statement of Profit and Loss in the period in which these become due to the respective funds.
- b. Deductions towards GPF from the salaries of staff are remitted to the UP State Power Sector Employees Trust, Lucknow as per the decision of the U.P. Government /UPPCL.
- c. The liability for payment of Pension and Gratuity in respect of employees of the erstwhile UPSEB has been taken over by U.P. State Power Sector Employees Trust and liability of the Company is limited to a contribution of 16.70% and 2.38% respectively of the amount of Basic Pay and Dearness Allowance paid to the employees. Provision for such retirement benefits is accordingly accounted for on the basis of the contribution on accrual basis.
- d. Employees appointed on or after 15.01.2000 are covered under CPF Scheme and entitled to gratuity under The Payment of Gratuity Act, 1972, whereas the other employees are covered under the UP State Power Sector Employees Trust, Lucknow. Provision for employees appointed on or after 15.01.2000 towards gratuity is made as per provisions of The Payment of Gratuity Act, 1972.



W.L. Singh

[Signature]

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

- e. Provision towards accrued leave encashment is estimated on the basis of balance leaves available to the credit of the employees as at the year end upto the maximum allowable limit of 300 days. Leave encashment is payable as per respective government/ UPPCL order at the time of retirement/ death and is accrued on the basis of the gross amount of the Basic Pay and Dearness allowance.

xii. Revenue/ Expenditure recognition

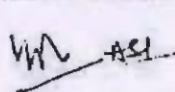
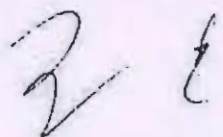
- a. Revenue from Sale of Energy is accounted for on the basis of bills raised on consumers.
- b. Sale of Energy, Minimum Consumption Guarantee (MCG) to consumers and late payment surcharge is accounted for on the basis of tariff rates notified and approved by UP Electricity Regulatory Commission.
- c. All prior period Income and Expenditure are shown in the current period as a distinct item, as per the requirements of AS-5 "Net profit or loss for the period, prior period items and change in accounting policy" notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.
- d. In case of bonafide consumers indulged in theft/illegal use of electricity, the revenue is recognized on accrual basis on the basis of bills raised. However, in case of non- bonafide consumers i.e. 'Katia Connections' and of temporary connections i.e. marriages, new construction of houses etc. the revenue is recognized on cash basis.
- e. Subsidy, Grant, Insurance and other claims, Interest on Income Tax and Trade Tax and late payment surcharge from consumers are accounted for on cash basis except Grant receivable from UPPCL which is accounted for on the basis of allotment made by UPPCL.

xiii. Purchase of Power

Power purchased from UPPCL has been accounted for on accrual basis at the rates approved by UPPCL in term of O.M. No. 3822/EIESPC dt. 10.12.2014 for the financial year 2012-13 and as per O.M. No. 625 (i)/Elect. Import Export & Payment circle dt. 25.02.2015 for the financial year 2013-14.

xiv. Provision for Bad Debts

The provision for doubtful debts from consumers is provided for @ 15% of the incremental value of the Receivables.

KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

xv. Provisions, Contingent Liabilities and Contingent assets

A provision is recognised when the Company has a present obligation as a result of past event and it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made based on technical valuation and past experience. Provisions are not discounted to its present value and are determined based on the management estimate required to settle the obligation at the Balance Sheet date. No provision is recognized for liabilities whose future outcome cannot be ascertained with reasonable certainties. Such contingent liabilities are not recognized but are disclosed in the notes to the accounts on the basis of judgment of the management. These are reviewed at each balance sheet date and adjusted to reflect the current management estimate.

xvi. Taxation

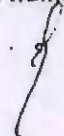
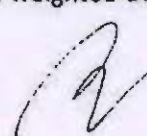
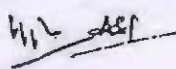
Tax expense comprises of current, deferred and fringe benefit tax. Current income tax and fringe benefit tax is measured at the amount expected to be paid to the tax authorities in accordance with the *Income-tax Act, 1961* enacted in India. Deferred income taxes reflects the impact of current year timing differences between taxable income and accounting income for the year and reversal of timing differences of earlier years in terms of mandatory Accounting Standard (AS) 22 : Accounting for Taxes on Income notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956.

Deferred tax is measured based on the tax rates and the tax laws enacted or substantively enacted at the balance sheet date. Deferred tax assets and deferred tax liabilities are offset, if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred tax assets and deferred tax liabilities relate to the taxes on income levied by same governing taxation laws. Deferred tax assets are recognised only to the extent that there is reasonable certainty that sufficient future taxable income will be available against which such deferred tax assets can be realised. In situations where the company has unabsorbed depreciation or carry forward tax losses, all deferred tax assets are recognised only if there is virtual certainty supported by convincing evidence that they can be realised against future taxable profits.

At each Balance Sheet date the Company re-assesses unrecognised deferred tax assets. It recognises unrecognised deferred tax assets to the extent that it has become reasonably certain or virtually certain, as the case may be that sufficient future taxable income will be available against which such deferred tax assets can be realised.

xvii. Earnings per share

Basic earnings per share is calculated by dividing the net profit/(loss) for the year attributable to equity shareholders by the weighted average number of equity shares outstanding during the period.



KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Notes forming part of the financial statements for the year ended 31st March 2014

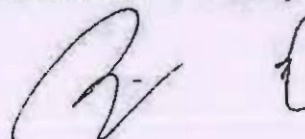
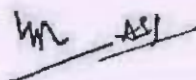
For the purpose of calculating diluted earnings per share, the net profit/(loss) for the year attributable to equity shareholders and the weighted average number of shares outstanding during the year are adjusted for the effects of all dilutive potential equity shares.

xviii. Cash Flow Statement

Cash flows are reported using the indirect method, whereby profit/ (loss) before extraordinary items and tax is adjusted for the effects of transactions of non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from operating, investing and financing activities of the Company are segregated based on the available information.

xix. Cash and cash equivalents

Cash comprises cash on hand and demand deposits with banks. Cash equivalents are short-term balances (with an original maturity of three months or less from the date of acquisition), highly liquid investments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in value.



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 3 - SHARE CAPITAL

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	Number of shares	₹	Number of shares	₹
(i) Authorised				
Equity shares of ₹ 10 each	300,000,000	3,000,000,000.00	300,000,000	3,000,000,000.00
	300,000,000	3,000,000,000.00	300,000,000	3,000,000,000.00
(ii) Issued				
Equity shares of ₹ 10 each	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
(iii) Subscribed and fully paid up				
Equity shares of ₹ 10 each	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00
	163,147,400	1,631,474,000.00	163,147,400	1,631,474,000.00

- 1) During the period 15th January 2000 to 31st March 2000, 5,99,99,300 Equity Shares were allotted to UPPCL (Holding Company) as fully paid up pursuant to Uttar Pradesh Transfer of KESA Zone Electricity Distribution Scheme, 2000 without payment being received in cash.
2) During the year 2013-14 the company has not allotted any share.

(i) Reconciliation of the number of shares and amount outstanding at the beginning and at the end of the reporting period:

Particulars	Opening Balance	Fresh Issue during the year	Closing Balance
(a) Issued Equity Shares			
Year ended 31st March, 2014			
Number of shares	163,147,400.00	0.00	163,147,400
Amount (₹)	1,631,474,000.00	0.00	1,631,474,000.00
Year ended 31st March, 2013			
Number of shares	158,280,000.00	48,674,000.00	163,147,400
Amount (₹)	1,582,800,000.00	48,674,000.00	1,631,474,000.00
(b) Subscribed and fully paid up Equity shares			
Year ended 31st March, 2014			
Number of shares	163,147,400.00	0.00	163,147,400
Amount (₹)	1,631,474,000.00	0.00	1,631,474,000.00
Year ended 31st March, 2013			
Number of shares	158,280,000.00	48,674,000.00	163,147,400
Amount (₹)	1,582,800,000.00	48,674,000.00	1,631,474,000.00

(ii) Details of shares held by the holding company:

Particulars	Equity shares
	Number of shares
As at 31st March, 2014	
Uttar Pradesh Power Corporation Limited	153,146,700
As at 31st March, 2013	
Uttar Pradesh Power Corporation Limited	153,146,700

Handwritten signatures and initials are present below the table, including a circular stamp on the left and several handwritten marks on the right.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

(iii) Details of shares held by shareholder holding more than 5% shares:

Class of shares / Name of shareholder	As at 31st March, 2014		As at 31st March, 2013	
	Number of shares held	% holding	Number of shares held	% holding
Equity shares				
Uttar Pradesh Power Corporation Limited	163,146,700	99.9996%	163,146,700	99.9996%

(iv) The company has only one class of equity shares having par value of ₹ 10 per share. Each equity share is entitled to one vote.

In the event of liquidation of the Company the holders of equity share will be entitled to receive the assets in proportion to the number of equity shares held by each of them.

NOTE 4 : RESERVES & SURPLUS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
(a) Capital Reserves (contribution, grants & subsidy towards cost of capital assets)		
Opening balance	2,155,285,281.16	1,954,737,422.82
Add: Additions during the year (consumer contribution received during the year)	111,900,085.73	200,547,858.34
	2,267,185,366.89	2,155,285,281.16
Less : Deduction during the year (amortised till 31st March 2014)	(761,245,829.92)	(659,085,430.92)
Closing balance	1,505,939,536.97	1,496,199,850.24
(b) Deficit in Statement of Profit and Loss		
Opening balance	(26,468,678,476.01)	(21,020,011,538.18)
Add: Loss for the year	(6,739,960,497.26)	(5,448,666,937.83)
Closing balance	(33,208,638,973.27)	(26,468,678,476.01)
Total	(31,702,699,436.30)	(24,972,478,625.77)



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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 5 : LONG TERM BORROWINGS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Secured Term loans (Refer note below)		
(i) From UPPCL (Holding Company)		
Loan Outstanding As on 31/03/2014	1,950,000,000.00	
Less: Amount overdue shown as current liability under Note -10	1,950,000,000.00	0.00
	0.00	0.00
(ii) Rural Electrification Corporation Limited	900000000.00	900000000.00
(iii) Term loan from Banks & Others (through UPPCL)	16442818085.03	14538447759.00
Syndicate Bank	189003841.00	
Krur Vysya Bank	21325539.73	
State Bank of India	663729272.00	
Punjab National Bank	2157419120.00	
Vijay Bank	518313323.37	
Union Bank of India	1265690662.00	
Allahabad Bank	831602189.00	
Indian Overseas Bank	505616525.00	
Dena Bank	386097458.00	
Central Bank of India	1835647184.05	
Bank of Maharashtra	260311719.00	
UCO Bank	847786462.00	
Bank of Baroda	351140083.64	
Oriental Bank of Commerce	1064046327.00	
Bank of India	424183990.00	
South Indian Bank	109369052.00	
Punjab and Sindh Bank	536209948.00	
Federal Bank	53932304.24	
Corporation Bank	638644056.00	
Canara Bank	1599001909.00	
PFC Transitional Loan	1100944760.00	
REC loan	1082802360.00	
(iv) Power Finance Corporation Limited	1523474381.00	
Loan Outstanding As on 31/03/2014	1523474381.00	
Less: Amount shown as current liabilities sch 10	105350728.00	
	1,418,123,653.00	1,523,474,377.00
	18,760,941,738.03	16,961,922,136.00
Unsecured Term loan (Refer note below)		
Loan from State Government through UPPCL (APDRP)		
Less: Amount overdue shown as other current liabilities		21,226,800.00
Note no. 10		
Bonds	9,890,973,728.00	
	9,890,973,728.00	21,226,800.00
Total	28,651,915,466.03	16,983,148,936.00



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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

Notes on loans:

(a) Loan from Uttar Pradesh Power Corporation Ltd (Rs 195.00 Crore)	
(i) Secured loan from UPPCL of ₹ 110.00 Crores are secured by way of the first charge over the distribution system and the distribution assets of the erstwhile KESA as transferred to KESCO by the transfer scheme as on the appointed date	
(ii) Terminal benefit liabilities of ₹ 85.00 crores as on 15.01.2000 transferred to KESCO as per the transfer scheme were taken over by the State Government vide its order no. 3972 dated 09.02.2004. The said amount of ₹ 85.00 Crores has been considered as Secured loan from UPPCL even though the loan agreement between the parties is pending to be executed, and accordingly the Security details cannot be ascertained.	
The above term loans are fully overdue hence the same has been reflected as Other Current Liabilities under - Note No- 10.	
Rate of Interest	
The Board of Directors of UPPCL had resolved on the 19th of October 2005 that the interest would not be payable by KESCO to UPPCL till such time it does not earn profit accordingly, no provision has been made during the year by the Company for the liability on account of the aforesaid interest and surcharge.	

DEFAULT IN REPAYMENT OF INTEREST & PRINCIPAL AMOUNT

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	Period of default	₹	Period of default	₹
Term loans from UPPCL (Holding Company)				
Term Loan	5 years	1,100,000,000.00	4 years	1,100,000,000.00
Terminal Benefit Liability	Refer Note below	850,000,000.00	Refer Note below	850,000,000.00
Loan from State Government through UPPCL (APDRP)				
Principal Amount	Since 2004-05		Since 2004-05	15,835,865.00
Interest Amount	Since 2004-05		Since 2004-05	43,989,005.20

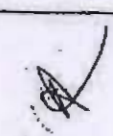
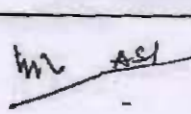
Terminal Benefit Liability : In the absence of any agreement having been executed the period of default of the Term Loan of ₹ 85 Crores cannot be ascertained.

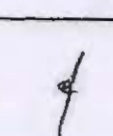
(b) Rural Electrification Corporation: This loan has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. The loan carry a interest of 13.25% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter.

(c) Term Loan from Banks & Others (through UPPCL): These loans have been taken from various financial institutions and others and have been transferred by UPPCL to the company. These are secured against Trade Receivables by the company. The loan is repayable in 84 monthly equated installments after a moratorium of 36 months and due for repayment starting from April 2015 except loan taken from Mandi Parishad and Noida which are interest free

(d) Power Finance Corporation Limited

The Secured loan from Power Finance Corporation Limited is secured by the hypothecation by way of first charge over the whole of the moveable assets of the Company under the APDRP scheme including replacement thereof whether stores, lying loose or in transit. An additional loan amounting to Rs. 90.00 crore has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. This additional loan carry a interest of 12.62% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter. Terms and condition of old loan are given hereunder.



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

2 : PFC 08421003 : In respect of this project, KESCO & Corporation executed a Memorandum of Agreement dated 06.11.2006 whereby the Corporation agreed to grant an additional loan of ₹ 16.07 Crore.

Owing to an increase in the revised cost of the project from ₹ 64.28 Crore to ₹ 94.66 Crore, the Corporation further agreed to enhance the loan amount from ₹ 16.07 Crore to ₹ 46.45 Crore by granting an additional loan of ₹ 30.38 Crore on the terms & conditions contained in Corporation's letter dated 30th March 2007.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
15th December 2006	24,100,000.00	The loan to be repaid in forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum, of Agreement. The first installment became due on the 15th day of October 2008 and the subsequent installments became due for payment on the 15th day of July, October, January and April, every year.
01st February 2007	23,988,745.00	
27th February 2007	106,370.00	
02nd March 2007	23,707,625.00	
23rd March 2007	24,018,516.00	
30th March 2007	22,955,473.00	
09th May 2007	18,488,322.00	
15th June 2007	9,051,352.00	
09th July 2007	9,139,592.00	
14th August 2007	3,805,184.00	
19th September 2007	45,575,000.00	
04th December 2007	29,256,126.00	
09th January 2008	26,819,025.00	
18th March 2008	22,930,881.00	
11th April 2008	29,598,409.00	
12th July 2010	22,396,889.00	
18th October 2010	2,183,950.00	
15th March 2011	9,589,002.00	
30th March 2011	53,218,401.00	
	400,828,862.00	

Rate of Interest

As per the Agreement executed between the parties, KESCO was to pay interest at the rates as applicable on the date of each disbursement along with interest tax at the rate applicable time to time pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2013-14 varied from 11.75% to 13.25% as per Statement received from PFC.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

TERMS OF REPAYMENT AND RATE OF INTEREST ON LOAN

1. PFC 88621002 : Corporation sanctioned a loan of ₹ 32.14 Crore for the implementation of the Kanpur Town / Circle Scheme under APDRP, involving a total cost of ₹ 64.28 Crore on the terms & conditions contained in the corporation's letter dated 28th July 2005 & amendment thereof dated 16th September 2005

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
10th October 2005	48,210,000.00	The loan shall be repaid in Forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum of Agreement. The first installment will become due on 15th day of April 2007.
21st November 2005	69,072,855.00	
30th December 2005	66,496,619.00	
31st January 2006	- 60,168,132.00	
26th April 2006	33,917,311.00	
4th July 2006	760,381.00	
10th November 2006	42,774,702.00	
	321,400,000.00	

Rate of Interest

As per the Agreement executed between the parties, KESCO was to pay interest at the rates as applicable on the date of each disbursement pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2013-14 is 13.25 % as per the Statement received from PFC.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

3 : PFC 08607001 : Corporation sanctioned a loan of ₹ 49.98 Crore for the purpose of installation of Aerial Bundled Conductor for theft prevention in distribution areas of KESCO on the terms & conditions contained in corporation's letter dated 29th February 2008 and 09th May 2008.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
04th August 2008	74,970,000.00	The loan to be repaid by the borrower in sixty (60) equal quarterly installments. The first installment became due on the 15th day of April 2010 and the subsequent installments became due for payment on the 15th day of July, 15th day of October, 15th day of January and 15th day of April, every year.
27th August 2008	68,987,064.00	
04th February 2009	47,430,529.00	
11th February 2009	49,432,090.00	
24th February 2009	71,869,084.00	
20th May 2009	52,935,257.00	
31st March 2010	36,575,443.00	
27th February 2013	24,656,594.00	
1st March 2013	5,557,640.00	
21st March 2013	12,837,439.00	
	445,251,140.00	

Rate of Interest

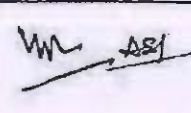
As per the Agreement executed between the parties, KESCO was to pay interest at the rate as applicable on the date of each disbursement pertaining to the grading of the borrower at the rates applicable from time to time.

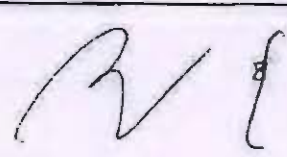
Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2013-14 is 13.00% to 13.25% as per the statement received from PFC.

Unsecured Loan - Loan from State Government through UPCL (APDR)

Worth ₹ 40432000.00 was existing in the beginning of the year has been converted in to share application money vide Govt. order no. 05/30/24-1-14-104(Budget)/2013 dt. 30.01.2014



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 6 : LONG TERM PROVISIONS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Provision for employee benefits		
(i) Provision for leave encashment	545,281,029.00	524,893,441.00
(ii) Provision for arrears of VNH Pay Commission		
Total	545,281,029.00	524,893,441.00

NOTE 7 : Other long term Liabilities

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
(i) Security deposit	1,044,527,180.14	987,265,963.98
(ii) Advance to Supplier	3,303,088.27	3,303,088.27
(iii) Restructuring Account	144,568,023.97	144,568,023.97
Total	1,192,398,292.38	1,135,137,076.22

NOTE 8 : SHORT TERM BORROWINGS

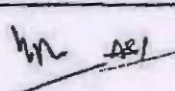
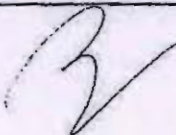
Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
(i) Interest Free Loan from UPPCL (Holding Company)		
Loan against Power Purchase (Unsecured)	227,797,713.42	227,797,713.42
(ii) Loan from Noida (Unsecured)	156,400,000.00	
Total	384,197,713.42	227,797,713.42

Notes:**REPAYMENT & INTEREST DETAILS**

Loan against Power Purchase is repayable on demand

The Board of Directors of UPPCL had resolved on the 19th of October 2005 that the interest on the Unsecured loan against power purchase, would not be payable by KESCO to UPPCL till such time it does not earn profit.

Accordingly, no provision has been made during the year by the Company for the liability on account of the aforesaid interest.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 9 - TRADE PAYABLES

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Trade Payables		
(a) For Power Purchase (UPPCB)	5,340,660,018.53	8,937,269,600.59
(b) For Transmission Charges (UPPTCL)	1,393,729,180.98	1,240,764,044.98
Total	6,734,389,199.51	10,178,033,645.57

NOTE 10 - OTHER CURRENT LIABILITIES

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
(i) Current maturities of Long-Term Borrowings (Refer Detail below)	2,055,350,728.00	2,074,555,932.00
(ii) Interest accrued but not due on borrowings - PFC	503,938,265.36	31,144,531.00
(iii) Interest accrued and due on borrowings	508,379,579.96	508,379,579.96
(iv) Statutory remittances	24,271.00	1,447,314.00
(v) Due to UPPCL	6,559,178,849.29	8,374,306,116.61
(vi) Due to State Government	4,032,188,515.05	3,487,441,067.90
(vii) Due to Distribution Companies:-		
PWNL(Varanashi)	47,524,319.00	45,400,850.00
MVVNL	49,784,301.26	43,355,731.26
PASHVNL	10,322,349.00	10,322,349.00
(viii) Due to U.P. State Power Sector Employees Trust	70,143,473.35	56,070,658.35
(ix) Liability for Supply of Material	205,938,527.29	191,512,790.38
(x) Audit & Other Professional Fee Payable	431,462.00	1,343,752.00
(xi) Others	159,794,326.40	108,711,932.45
(xii) Liability for Expenses	27,594,801.80	29,636,311.10
(xiii) Liability for Salary	81,207,574.56	78,420,027.83
(xiv) Interest accrued on security deposits from consumers	341,045,192.07	287,937,918.65
Total	14,652,846,535.39	15,330,086,862.49

Details of Current maturities of long-term debt (Refer Notes 5 - Long-term borrowings for details of security & repayment terms)

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Secured Term loans		
(i) From UPPCL (Holding Company)	1,950,000,000.00	1,950,000,000.00
(ii) From PFC	105,350,728.00	105,350,732.00
Unsecured Term loans		
Loan from State Government through UPPCL (APDRP)		19,205,200.00
Total	2,055,350,728.00	2,074,555,932.00

NOTE 11 - SHORT TERM PROVISIONS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Provision for employee benefits		
Provision for arrears of 5th Pay Commission	295,739,060.00	407,895,156.00
Total	295,739,060.00	407,895,156.00

[Handwritten signatures and initials are present below the tables.]

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 12 : TANGIBLE FIXED ASSETS

A	Tangible assets	Rate of Depreciation	Gross block			Accumulated depreciation				Net block	
			Balance as at 1 April, 2013	Additions during 2013-14	Balance as at 31st March, 2014	Accumulated depreciation	Depreciation expense for the year	Other Adjustments (Prior Period Items)	Balance as at 31st March, 2014	Balance as at 31st March, 2014	Balance as at 31st March, 2013
			₹	₹	₹	₹	₹	₹	₹	₹	₹
I	LEASEHOLD										
	(a) Land	0.00%	1.00		1.00				0.00	1.00	1.00
II	OWNED										
	(a) Buildings										
	Residential Colonies	1.63%	102,211,982.66	218,777.60	102,432,760.26	27,147,249.52	1,667,436.19		28,814,685.71	73,618,074.55	75,064,733.14
	Office Building	1.63%	16,816,116.75		16,816,116.75	2,469,075.57	274,102.70		2,743,178.27	14,072,938.48	14,347,041.18
	Building Containing Sub-Stations	3.34%	172,027,869.79	2,227,888.50	174,255,758.29	30,531,392.56	2,825,860.27		33,357,252.83	140,898,505.46	141,498,477.23
	(b) Plant and Equipment	4.75%	1,619,095,023.12	107,718,442.67	1,726,813,465.89	600,784,983.17	79,948,871.90		680,733,855.07	1,046,079,610.82	1,018,310,040.04
	(c) Furniture and Fixtures	6.33%	12,987,846.16	211,639.15	13,199,485.31	8,577,763.69	344,490.70		8,922,254.39	4,277,230.92	4,410,082.47
	(d) Vehicles	9.50%	34,530,863.95		34,530,863.95	30,691,762.19	318,223.30		31,009,985.49	3,520,878.46	3,839,101.76
	(e) Office equipment										
	Computers	16.21%	33,895,151.74	31,668,043.69	65,563,195.43	19,474,252.56	9,506,656.38		28,980,808.94	36,582,386.49	14,420,999.18
	Other Office Equipment	4.75%	63,694,501.76	856,076.00	64,550,577.76	52,323,781.71	528,467.66		52,852,249.37	11,698,328.39	11,370,720.05
	(f) Lines, Cables, Networks etc.	4.75%	3,777,452,468.33	184,632,924.02	3,962,085,392.35	1,845,297,057.81	184,376,502.26		2,029,673,560.07	1,932,411,832.28	1,932,155,410.52
	Total		5,832,713,825.36	327,533,791.63	6,160,247,616.99	2,617,297,218.78	279,790,611.36	-	2,897,087,830.14	3,263,159,746.85	3,215,416,606.57
	Less: Amortisation of Consumers Contribution on Fixed Assets					102,160,399.00					
	Depreciation charged to operation					177,630,212.36					
	Previous year		5,628,760,829.95	203,952,995.41	5,832,713,825.36	2,371,364,953.88	172,634,405.07	(18,362,579.09)	2,617,297,218.78	3,215,416,606.57	

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Kanpur Electricity Supply Company Limited
Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 13 - CAPITAL WORK IN PROGRESS

Particulars	Balance as on 01st April 2013	Additions during the year	Capitalized during the year	Balance as on 31st March 2014
	₹	₹	₹	₹
Capital Work in Progress	440,862,787.76	132,185,175.46	327,533,791.63	245,514,171.59
Total	440,862,787.76	132,185,175.46	327,533,791.63	245,514,171.59
Previous Year	446,732,164.00	198,083,619.17	203,952,995.41	440,862,787.76

NOTE 14 - LONG TERM LOANS & ADVANCES

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	₹		₹	
(i) Capital Advances				
<u>Unsecured considered good</u>				
(a) Advance to fabricators			351,533,817.71	235,130,217.08
<u>Unsecured Considered doubtful</u>				
(b) Advance to Supplier & Contractor	2013-14	2012-13		
Less: Provision for doubtful Loans & Advances	475,466.14	475,466.14	0.00	0.00
Total	475,466.14	475,466.14	351,533,817.71	235,130,217.08

NOTE 15 - INVENTORIES

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Stores & Spares (As valued at cost & certified by the management)	302,855,923.75	269,236,092.79
Total	302,855,923.75	269,236,092.79

NOTE 16 - TRADE RECEIVABLES

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	₹		₹	
<u>Unsecured, considered good</u>				
Trade receivables outstanding for a period exceeding six months		79,396,711,272.10		30,703,931,417.96
Less: Provision for doubtful trade receivables	6,017,112,504.08			(5,905,051,179.08)
Unrealised Late Payment Surcharge	11,069,160,925.91	(17,086,273,429.99)	12,310,437,842.11	(10,677,128,999.63)
			12,310,437,842.11	14,121,751,239.25
Other Trade receivables			4,464,343,892.98	1,994,813,019.40
			4,464,343,892.98	1,994,813,019.40
Total			16,774,781,735.09	16,116,564,258.65

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 17 - CASH & CASH EQUIVALENTS

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹	₹
Cash & Cash Equivalents		
(i) Cash in hand	3,692,762.22	47,377,238.24
(ii) Cheques, draft on hand	184,205,198.22	247,569,301.87
(iii) Balance with banks		
In current accounts	999,108,045.70	637,381,583.67
Other bank balances		
In deposit account	14,989,434.00	13,900,781.00
Total	1,201,996,440.14	946,228,904.78

NOTE 18 - SHORT TERM LOANS & ADVANCES

Particulars	As at 31st March, 2014		As at 31st March, 2013	
	₹		₹	
Unsecured, considered good				
(i) Loans and advances to UPPCL (Holding Company)				
(ii) Loans and advances to employees				
(a) Unsecured Considered Good	2013-14	2012-13		
(b) Unsecured considered Doubtful	3602762.72	3,606,858.72	1,924,628.00	2,063,597.00
Less: Provision for doubtful loans and advances	3602762.72	3,606,858.72	0.00	0.00
			1,924,628.00	2,063,597.00
(iii) Loans & Advances to Distribution Companies				
UPPTCL			99,815,947.00	11,295,977.00
UPRVNL			23,200.00	23,200.00
DVVNL			89,972,813.00	106,063,789.20
			189,811,960.00	117,382,966.20
(iv) Advances Recoverable in Cash or in Kind for value to be received				
(a) Unsecured Considered Good	2013-14	2012-13		
(b) Unsecured considered Doubtful	115088000.21	113,360,150.42	91,850,958.39	89,467,467.18
Less: Provision for doubtful loans and advances	115,088,000.21	113,360,150.42		0.00
			91,850,958.39	89,467,467.18
Total			283,587,546.39	208,914,030.38

NOTE 19 - Other Current Assets

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
(i) Prepaid expenses	20255.00	511607.00
(ii) Balances with government authorities	471,024,182.91	13,123,699.91
Total	471,044,437.91	13,635,306.91

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 20 - REVENUE FROM OPERATIONS

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
(a) Sale of Power (Refer Note (i) below)	15,341,188,250.93	11,237,591,702.04
(b) Other operating revenues (Refer Note (ii) below)	111,235,475.16	219,613,256.09
Total	15,452,423,726.09	11,457,204,958.13

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
Note: (i) Sale of Power comprises:		
Domestic	4,991,995,602.17	4,109,880,923.06
Commercial	2,182,798,990.33	1,659,757,981.62
Industrial	8,391,231,560.07	5,335,213,129.86
Public lighting	337,454,160.00	276,423,840.00
Public water works	420,189,751.96	348,011,134.43
Gross Sale of Power	16,323,670,064.53	11,729,287,008.97
Less: Electricity duty	982,481,813.60	491,695,306.93
Net Sale of Power	15,341,188,250.93	11,237,591,702.04
Note: (ii) Other operating revenues:		
Delayed Payment charges from consumers	111,235,475.16	219,613,256.09
Other operating revenues	111,235,475.16	219,613,256.09

NOTE 21 - OTHER INCOME

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
(i) Interest income (Refer Note (i) below)	21,017,804.00	13,980,042.50
(ii) Other non-operating income (Refer Note (ii) below)	463,038,950.02	252,696,479.60
Total	484,056,754.02	266,676,522.10

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

Note: (i) Interest Income comprises:			
Interest from banks on Fixed Deposit		21,017,804.00	13,980,042.50
	Total - Interest Income	21,017,804.00	13,980,042.50
Note: (ii) Other non-operating Income comprises:			
Sale of Scrap		33,546,550.12	14,885,085.00
Penalty from Contractors		10,339,031.00	6,690,097.00
Rebate for Timely Payment of Interest		2,215,416.00	2,522,263.00
Rental from Staff		1,275,053.50	1,211,883.10
Sales of Tender Forms		982,123.00	689,374.16
Other Recoveries From Consumers		979,220.00	15,305,825.24
Other Miscellaneous Income		457,969,539.35	335,873.20
Prior period income (net of Expenses) (Refer Note Below)		(44,267,982.95)	211,056,078.90
	Total - Other non-operating Income	463,038,950.02	252,696,479.60
Note: Details of Prior period Items:			
A) Expenses			
Trade tax on works 2008-09 to 2011-12		0.00	366840.00
Prior period interest on FDR (APDRP)		3239335.00	0.00
Solray		10549322.00	0.00
KESCO Head Office Expenses		0.00	6849271.00
Dearness Allowance			0.00
Trust Expenses			2471306.00
Depreciation			0.00
Consumption of Material			1260537.00
Expense excess booked			3571.00
Operating Expenses		2202618.00	0.00
Reversal of Electricity Charges of Discom		22178764.20	0.00
Bonus			5341384.00
Interest expenses on Bank Loan		6097943.75	
		44267982.95	16292909.00
B) Income			
Reversal of Bank Charges			45334.00
Transmission Charges			201613226.00
Depreciation			18362579.09
Excess Staff Provision written back			7327848.81
		0.00	227,348,987.90
	Total (A-B)	44,267,982.95	(211,056,078.90)

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 22 : PURCHASE OF POWER

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
Purchase Cost	16,635,931,725.00	11,335,656,310.00
Transmission Cost	745,496,616.00	546,372,354.00
Total	17,381,428,341.00	11,882,028,664.00

NOTE 23 : EMPLOYEE BENEFIT EXPENSES

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
Salaries & Wages	878,622,245.32	866,759,510.77
Contributions to provident and other funds	145,615,355.00	141,864,663.00
Staff welfare expenses	11,560,097.00	13,987,505.77
Less : Expenses Capitalised	(10,679,760.00)	(12,098,429.00)
Total	1,025,117,937.32	1,010,513,250.54

NOTE 24 : FINANCE COST

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
(i) Interest expense on Borrowings	2,943,439,483.89	1,868,639,234.98
(ii) Other borrowing cost	7,237.00	11,046.30
(iii) Interest Expenses on Security deposits from consumers	80,986,485.20	79,025,315.00
Total	3,024,433,207.09	1,947,875,596.28

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 25 : OTHER EXPENSES

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
Interest Expense on Electricity duty	308,946,038.56	255,302,580.00
Repairs & Maintenance - Building	71,346,611.26	39,265,827.31
Repairs & Maintenance - Machinery	221,607,061.08	192,169,245.50
Repairs & Maintenance - Line, Cables, Networks etc.	167,554,237.11	119,140,347.67
Repairs & Maintenance - Others	1,118,199.25	1,007,388.40
Lease Rent on leasehold land to UPPCL (Holding Company)	12.00	12.00
Rates & Taxes	15,548,450.00	13,992,002.00
Insurance	517,563.00	675,521.00
Communication	1,830,308.25	3,847,425.00
Travelling & Conveyance	812,711.94	11,843,369.40
Legal & Professional charges	21,458,064.00	16,304,563.00
On line & Spot Billing charges	44,259,944.00	27,604,363.00
Printing & Stationery	4,658,395.50	4,312,644.63
Advertisement Expenses /	4,673,199.00	4,708,045.00
Fee & Subscription	7,255,191.00	6,928,650.00
Provision for doubtful trade Receivables		1,354,340,764.38
Provision for Bad & doubtful debts provided	112,061,325.00	
Security Charges	70,477,010.00	55,084,940.00
Provision for doubtful loans & advances	1,723,753.79	46,238,306.88
Payments to auditors (Refer Note (I) below)	224,720.00	224,720.00
Miscellaneous expenses	9,929,387.86	6,711,828.00
Less : Expenses capitalised	(170,903.00)	(206,041.00)
Total	1,067,831,279.60	2,159,496,502.17

Notes:

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
(I) Payments to the auditors comprises :		
As Auditors - For Statutory Audit	224,720.00	224,720.00
Total	224,720.00	224,720.00

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

DISCLOSURES UNDER ACCOUNTING STANDARDS

NOTE 26 : CONTINGENT LIABILITIES AND COMMITMENTS

(i) CONTINGENT LIABILITIES

Contingent liabilities not provided for in respect of:

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹ in lacs	₹ in lacs
(i) Claims against the Company not acknowledged as debts	888.87	838.59
(ii) Interest charges payable to State Government in respect of conversion of leasehold land into freehold land (matter referred for waiver to the State Government)	2,027.49	1,679.65
(iii) Appeal pending before Income Tax Appellate Tribunal		427.12

(ii) COMMITMENTS

Estimated amount of contracts remaining to be executed on Capital Account and not provided for:

Particulars	As at 31st March, 2014	As at 31st March, 2013
	₹ in lacs	₹ in lacs
Net of Advances ₹ 2,388.20 lacs (₹ 1,848.61 lacs)	551.77	1,890.57

NOTE 27 : BACKGROUND

(i) The Company was incorporated under the Companies Act, 1956 on 21.07.1999 and took over the Assets and Liabilities of KESA Zone of UPPCL w.e.f 15.01.2000 (hereinafter referred to as the "appointed date"), in terms of the U P Government notification no. 186 /XXIV-1-2000 dated 15.01.2000. Accordingly, the accounts of the company also comply with the various provisions of the Transfer of KESA Zone Electricity Distribution Scheme 2000 (hereinafter referred to as the "transfer scheme").

(ii) The Fixed Assets (of the erstwhile KESA Zone) were taken over by the Company (i.e. KESCO) from UPPCL on 15.01.2000 as per the transfer scheme at a gross value of ₹ 260.00 crores (with nil accumulated depreciation). The details of the individual block of assets have been considered at the values as approved by the Board of Directors.

NOTE 28 : SEGMENT REPORTING (AS 17)

Since the Company is engaged in retail distribution of electricity in the city of Kanpur and its adjoining areas, there are no other reportable segments in terms of Accounting Standard (AS)-17: Segment Reporting as notified under the Companies (Accounting Standards) Rules, 2006 pursuant to Section 211 (3C).

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 29 : RELATED PARTY TRANSACTIONS (AS -18)

Details of related parties:

Description of relationship	Names of related parties
Key Management Personnel (KMP) - M.D.	Sri R.S. Pandey for the period from 01.04.2013 to 01.07.2013 M.D. Sri S.N. Bajpai for the period from 24.07.2013 to 31.03.2014. Director Sri S.N. Bajpai Director (Technical) for the period 01.04.2013 to 31.03.2014.
Sri R.S. Pandey Managing Director, Kesco did not draw salary since he had additional charge of MD KESCO and was drawing salary from the UP Power Transmission Corporation Ltd. and Sri SN Bajpai Managing Director did not draw salary from Kesco as he had additional charge and was drawing salary as Director (T) Sri S.N. Bajpai Director (Technical) drawn salary from Kesco worth Rs 9.37 lacs upto 31.03.2014.	
Details of related party transactions during the year ended 31st March, 2013 :	
Particulars	KMP
Transactions during the year	
Directors Salary: Sri SN Bajpai Director (T) Kesco for the year 2012-13	3.52 Lacs
Total	3.52 Lacs

(i) Figures in bracket relates to the previous year

(ii) In terms of the exemption as per para 8 of Accounting Standards (AS)-18 Related Party Disclosures as notified under the Companies (Accounting Standards) Rules, 2006 pursuant to Section 211 (3C), no disclosure has been made in the financial statements as regards related party relationships with other state-controlled enterprises and transactions with such enterprises.

NOTE 30 :

The Company has no employees whose salary exceeds the limits prescribed under Section 217(2A) of the Companies Act, 1956

NOTE 31 : LEASEHOLD LAND

(i) The Company has not ascertained the value of the leasehold land received from UPPCL as per the transfer scheme at a lease of ₹ 1.00 per month and holds the same at a nominal value of ₹ 1.00 in the books of account.

(ii) The lease of Plot no.'s 4 and S4 of erstwhile KESA expired on 4.12.1994 and 31.07.1994 respectively and was not renewed by the Government of U.P. vide G.O. dated 03-10-1994. The Company had accordingly deposited a sum of ₹ 7,43,86,785.00 with the State Government towards conversion of the plots into freehold in earlier years



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 32 : RECONCILIATION OF INTER UNIT & OTHER BALANCES

The following balances are subject to confirmation and/or reconciliation as at the year end. Impact, if any, on the assets/liabilities and/or income/expenditure consequent to such reconciliation is presently not ascertainable.

(a) Inter units balances

(b) Balances of Trade Receivables, Advances to Suppliers/ Contractors, Trade payables, balance with UP State Power Sector Employees Trust, Loans and Advances, Security Deposits, Various balances with State Government and balance with UPPCL & other distribution Companies.

NOTE 33 : INTEREST ON SECURITY DEPOSIT FROM CONSUMERS

Interest on Security deposit from consumers has been provided at the bank rate notified by the RBI as prevalent on 1st April of applicable financial year 2013-14 i.e. : 8.50% p.a. and as per para 4 20 (i) of the Electricity Supply Code, 2005, (third amendment). The provision has been made on the monthly opening cumulative ledger balances (net) instead of providing for the same in respect of individual consumer balances. Under/ excess provision, if any, and the impact of the same on the reported loss of the Company for the year on account of the aforesaid estimation is not ascertainable.

NOTE 34 :

The Govt. of U.P. had vide its order no. 3188 dated 24.10.2003 and 1077 dated 17.04.2008 decided that the electricity duty and interest payable for the period from 15.01.2000 to 31.03.2003 and 01.04.2003 to 31.03.2008 respectively would be adjusted against the balance subsidy payable to UPPCL by the State Government. Accordingly, the amount of electricity duty and interest thereon payable due to pending adjustment by the state government has been shown under the Note 10 : Other Current Liabilities (Due to State Government).

NOTE 35 : POWER PURCHASE FROM UPPCL

(i) Power Purchase from UPPCL has been accounted for at the rates approved by UPPCL in term of O.M. No. 3822/EIESPC dt. 10.12.2014 for the financial year 2012-13 amounting to ₹ 1251279899 & in term of O.M. No. 62501/EIESPC dt. 25.02.2015 for 2013-14. The difference of rates for the year 2012-13 has also been accounted for in the year 2013-14. Further rate of ₹ 0.135 per unit is also payable on account of the transmission charges, for the use of intra state transmission network.

(ii) The joint meter reading for purchase of power from UPPCL is taken at ten sub stations (supply points from UPPCL) on the first day of each month at 08:00 AM by the Executive Engineer (Transmission) UPPCL and Executive Engineer (Test) KESCO. In the absence of the reading being taken at 12 midnight on the 31st of March 2014, the impact of such a method on the reported loss for the year on account of the amount of power purchase being incorrect, in the opinion of the management, would not be material.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 32 : RECONCILIATION OF INTER UNIT & OTHER BALANCES

The following balances are subject to confirmation and/or reconciliation as at the year end. Impact, if any, on the assets/liabilities and/or income/expenditure consequent to such reconciliation is presently not ascertainable.

(a) Inter units balances

(b) Balances of Trade Receivables, Advances to Suppliers/ Contractors, Trade payables, balance with UP State Power Sector Employees Trust, Loans and Advances, Security Deposits, Various balances with State Government and balance with UPPCL & other distribution Companies.

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Interest on Security deposit from consumers has been provided at the bank rate notified by the RBI as prevalent, on 1st April of applicable financial year 2013-14 i.e. : 8.50% p.a. and as per para 4.20 (i) of the Electricity Supply Code, 2005, (third amendment). The provision has been made on the monthly opening cumulative ledger balances (net) instead of providing for the same in respect of individual consumer balances. Under/ excess provision, if any, and the impact of the same on the reported loss of the Company for the year on account of the aforesaid estimation is not ascertainable.

NOTE 34 :

The Govt. of U.P. had vide its order no. 3188 dated 24.10.2003 and 1077 dated 17.04.2008 decided that the electricity duty and interest payable for the period from 15.01.2000 to 31.03.2003 and 01.04.2003 to 31.03.2008 respectively would be adjusted against the balance subsidy payable to UPPCL by the State Government. Accordingly, the amount of electricity duty and interest thereon payable due to pending adjustment by the state government has been shown under the Note 10 : Other Current Liabilities (Due to State Government)

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Kanpur Electricity Supply Company Limited**Notes forming part of the financial statements for the year ended 31st March, 2014****NOTE 36 :**

Pending final adjustment/reconciliation of the differences between the balances of KESCO and KESA as on the date of transfer, the net credit balance as on date of ₹ 14.46 crores (Previous year ₹ 14.46 crores) has been disclosed under Other long term Liabilities (Note 7). Impact, if any, of the same on the assets/liabilities and/or income/expenditure subsequent to such reconciliation is presently not ascertainable

NOTE 37 - EARNING PER SHARE (AS-20)

Particulars	For the year ended 31st March, 2014	For the year ended 31st March, 2013
	₹	₹
Net profit for the year attributable to the equity shareholders	(6,739,960,497.26)	(5,448,666,937.83)
Weighted average number of Equity Shares	163,147,400	160,026,930
Par value per share	10.00	10.00
Earnings per share - Basic	(41.31)	(34.05)

NOTE 38 : IMPAIRMENT OF ASSETS (AS 28)

In the opinion of management, there is no specific indication of impairment of any assets as on the Balance Sheet date as envisaged by Accounting Standard-28: Impairment of Assets as notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956. Further, the assets of the company have been accounted for at their historical cost and most of the assets are very old and their carrying amount does not exceed the recoverable amount.

NOTE 39 : MICRO AND SMALL ENTERPRISES

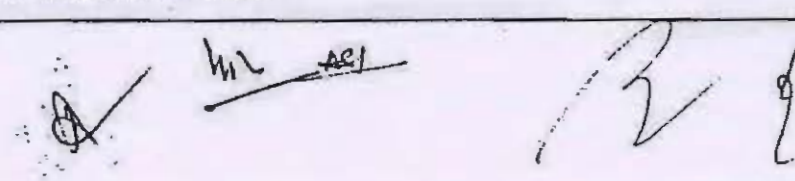
The Company has not received any memorandum (as required to be filed by the suppliers with the notified authority under the Micro, Small and Medium Enterprises Development Act, 2006) claiming their status as micro, small or medium enterprises. Consequently, the information with regard to the amount unpaid as at the year end to such enterprises together with the interest paid/payable to such parties is not being disclosed.

NOTE 40 : SHARE APPLICATION MONEY

Share application money amounting to Rs 508932000.00 existing as on 31.03.2014, and pending for allotment.

NOTE 41 :

Income Tax Assessments have been completed upto Financial Year 2010-11. No Provision of income tax has been made as the company is incurring continuous losses. Deferred Tax Assets/Liability have not been recognised in absence of reasonable certainty that sufficient future taxable income will be available to set off the unaborsbed losses and unsorbed depreciation.

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2014

NOTE 42 :

Quantitative details for Electricity units purchased and sold: (in MU)

Particulars	2013-14	2012-13
Total Power Purchased	3,554.392	3,140.071
Total Power Sold -	2,458.092	2,153.762
Distribution Loss	1,096.300	986.309
% Distribution loss	30.84%	31.41%

In the opinion of the management, the identified reasons of line losses during the financial year 2013-14 (2012-13) are :

- Unauthorized use of electricity and illegal connections.
- Overloading of Transformers
- Supply of electricity being maintained through 11/6.6 KV feeders which are very old and require upgradation.

Corrective measures are being taken to decrease the line losses.

NOTE 43 :

Previous year figures have been regrouped or reclassified to the extent possible wherever considered necessary. The accompanying Notes are an integral part of the Financial Statements.

Auditor's Report

As per our separate report of even date

For P. L. Tandon & Co.

Chartered Accountants

FRN-000186C

(P. L. Tandon)

Partner

M No:070455

Dated: 18.03.2015
Place: Kanpur

(P. L. Tandon)
Dy. C.A.D.

(S. K. Agarwal)
Director

(Abha Sethi Tandon)
Company Secretary

(Seeta Kumari)
Managing Director

**INDEPENDENT AUDITORS' REPORT ON FINANCIAL STATEMENTS
TO THE MEMBERS OF
KANPUR ELECTRICITY SUPPLY COMPANY LIMITED**

Report on the Financial Statements

We have audited the accompanying financial statements of Kanpur Electricity Supply Company Ltd. (hereinafter referred to as KESCO), which comprise the Balance Sheet as at 31st March, 2014, the Statement of Profit and Loss and Cash Flow Statement for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and cash flows of the Company in accordance with the Accounting Standards notified under the Companies Act, 1956 ("the Act") read with the General Circular 15/2013 dated 13th September 2013 of the Ministry of Corporate Affairs in respect of section 133 of the Companies Act, 2013. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Company's

preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.

Basis for Qualified Opinion

We invite attention to:-

1- Non-compliance of Accounting Standard (AS) 15 on "Employee Benefits" issued by the Institute of Chartered Accountants of India to the extent that the company has not actuarially valued its liabilities towards Gratuity, pension and leave encashment as at the year end. Instead, provision therefor has been made on the basis of actual liability determined by the management. Impact of the same, if any, on the loss for the year is not ascertainable.

2- Billing of Revenue:

- (a) The Company continues to bill consumers on provisional basis on account of "no reading" "defective meter" "defective reading" "Inoperative debtors" etc in contravention to the provisions of the Electricity Act, 2003 and Accounting Standard (AS)-9 issued by ICAI.
- (b) The billing system of the organization has not been verified by us. The same is also not subjected to System Audit hence we can't comment upon the adequacy of controls inbuilt into the billing system including online.
- (c) As per the information provided to us the company has during the year, revised total bills numbering 59861 amounting to Rs. 589.29 Crores that have been reduced to Rs. 105.98 Crores resulting into reduction by Rs. 483.31 Crores which has not been verified by us in absence of requisite details / evidences. As substantial number of consumers are not regular in payment of their dues, further revision if required may affect the revenue and debtors already accounted for.

(d) The company is not complying with the provisions of clause 5.6 (c) of Electricity supply code (third revision) of revising bills of previous three billing period prior to the month in which the dispute has arisen where the meter is found defective which requires adjustment in the subsequent bill as per the test results.

(e) The company continues to bill under IDF, RDF and ADF category beyond (2+1) billing cycle as required by electricity supply code. On scrutiny of billing, there were cases in which provisional bills were prepared by the company even after the expiry of (2+1) billing cycle.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

3- Note 2(xi) significant Accounting policy –

Para (a), (b) and (e) regarding accounting of certain incomes on basis other than accrual in non-compliance of Accounting Standard (AS) 9 on "Revenue Recognition" issued by ICAI.

4- Fixed Assets and Depreciation:

(a) Note 27(ii) regarding the fixed assets having been taken over by the company from UPPCL at an estimated gross value of Rs. 260.00 Crores (with NIL accumulated depreciation), the values as approved by the Board of Directors of the company without the details of the individual assets being available with a consequential effect of overstating / understating the assets / liabilities of the company.

(b) Items of fixed assets that have been retired from active use and are held for disposal are not stated at the lower of their net book value and net realizable value as per AS-10 "Accounting of Fixed Assets". These assets continue to form part of Fixed Assets schedule resulting into overstatement of Gross Block and Accumulated Depreciation.

(c) The company is providing depreciation as per schedule XIV of Companies Act, 1956 which is not in accordance with rates of depreciation as notified by Central Electricity Regulatory Commission (CERC) which is applicable for the purpose of tariffs as well as accounting on the basis of General Circular No. 31/2011 dated 31/05/2011 Issued by Ministry of Corporate Affairs, Govt. of India.

- (d) In absence of separate records of company's own fixed assets and fixed assets constructed on behalf of the consumers, we could not verify the correctness of gross cost of company's own fixed assets and amount of depreciation thereon amounting to Rs. 17,76,30,212 charged to statement of profit and loss. No records were made available in respect of contribution received from the consumers for the construction of fixed assets on their behalf. Further, amount of amortization of contribution received from consumers towards cost of capital assets could not be verified.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

5- Capital Works in Progress:

- (a) Note '13' Capital Work in progress wherein, there is an unreconciled difference of Rs 89.78 lacs in the details submitted by the management.
- (b) Projectwise details of capital work in progress along with project engineer's certificate in respect of projects completed and capitalized during the year, has not been provided to us. We, therefore could verify the amount of Capital Work in Progress Rs. 26,61,78,327 as on 31-03-2014 and amount Rs. 32,75,33,791 capitalised during the year.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

6- Trade Receivable

- (a) In absence of proper system of analyzing Trade Receivables, the company has made disclosure of trade receivables as required by revised schedule VI of the companies Act, 1956 on estimated basis. Hence the correctness of the disclosure of Trade Receivable for a period exceeding six months and other receivables could not be verified.
- (b) In terms of the provisions of Uttar Pradesh Transfer of KESA Zone Electricity Distribution Undertaking Scheme, 2000, out of the total Trade Receivables of Rs. 630 Crores, Trade Receivables to the tune of Rs. 60 Crores related to the company and Rs. 570 Crores were stated to be relating to UPPCL on which collection charges @15% were to be credited to the account of the company. However, since the company has assumed that all the current year's realizations are against current year sales, no collection charges have been claimed from UPPCL.

- (c) The company had received Rs. 1,19,92,053 from consumers as deposits towards temporary connection . But this amount has been transferred to the credit of Trade Receivables without any documentary evidence.
- (d) Amount of doubtful trade receivable amounting to Rs. 601.71 crores should be disclosed as doubtful trade receivable instead of considered good.
- (e) Note 2 (xiii) Significant Accounting Policies regarding the provision for doubtful debts @15% of the incremental value of the Trade Receivables based on the estimate of the management. In absence of balance confirmation of trade receivables, we have not been able to obtain sufficient appropriate audit evidence with regard to the amount of provision for doubtful trade receivables Rs. 601.71 crores and recoverability of trade receivables , particularly having regard to-
- (i) the aggregate amount of trade receivable outstanding for a period exceeding six months being Rs. 2939.67 Crores (calculated on estimated basis by the management out of total trade receivable of Rs3386.10 Crores of which 1106.91 Crores are unrealized late payment surcharge which are accounted for on receipt basis)
 - (ii) the agewise details of trade receivables has not been provided to us .
 - (iii) current Status of permanently disconnected connections wherein the consumers are not available / traceable and units which have remained closed since long etc.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

7- Note 32 regarding certain balances of trade receivables, suppliers, inter unit balances and various balances with the holding company UPPCL and other companies viz. DVVNL, PVVNL, UPPTCL being subject to confirmation and / or reconciliation as at the year end.

Impact, if any on the assets / liabilities and / or income / expenditure consequent to such reconciliation is presently not ascertainable.

8- Compounding Charges

- (a) An amount of Rs. 2,08,68,200 received from consumers towards compounding charges have been adjusted on the basis of advice received from company's Police Enforcement team which could not be verified by us.

(b) The company has not deposited the total unpaid amount of compounding charges Rs. 8,72,42,332 till 31-03-2014 .However total unpaid amount deposited subsequent to the close of the accounting year. The company has not computed/provided the interest on unpaid amount of compounding charges .

9- Non compliance of comments of the Comptroller and Auditor General of India on the Accounts of the company for the year ended 31-03-2013

**b. Para 7
General .**

Due to non- reconciliation of the inter company balances of Current Liabilities vis-à-vis Current Assets, a difference of Rs. 10.79 crore was not taken into account by the company. This was also not disclosed in Notes on the Accounts.

Despite the comment of the Comptroller and Auditor General of India on the accounts of the company for the year 2010-11 and 2011-12, the Company has not taken any corrective action.

Impact of the above on the Loss , Assets and Liabilities is-presently not quantifiable

10- Advance to Fabricators Dr. Rs. 35,15,33,817

This is the cost of various materials issued by the company to various contractors for work awarded to them. The complete details of materials issued to contractors has not been provided to us . Total amount includes Rs.23,51,30,217 being cost of materials issued to contractors in earlier years. Details of project/ work for which materials has been issued to contractors , has not been provided to us. No information is available in respect of progress/ status of project for which materials has been issued. In absence of any documentary evidence we are unable to comment on the recoverability of this large amount of advance.

11- Advance to contractors / suppliers and staff Dr. Rs. 21,27,10,626

The total amount includes advance paid to contractors, suppliers , employees etc. It is the practice of the company to provide for doubtful advances in respect of all the balance which are more than two years old. The total amount of provision for doubtful advance made by the company till 31-03-2014 in respect of advances more than two years is Rs. 11,91,62,779 against the total advance amount of Rs. 21,27,10,626. This is not correct practice. The provision for doubtful advance in respect of advance paid to employees of the company is not correct. In absence of any documentary evidence in support of making provision for

doubtful advance , we are unable to comment on the recoverability of advance and on accuracy of amount of provision of doubtful advances.

There are various others old debit balances brought forward from previous years in respect of neither balance confirmation of respective parties was provided to us nor any other documentary evidence was available to verify the recoverability of the amount of advance.

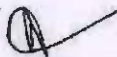
- 12- The company has its construction division. The administrative overhead of this division amounting to Rs. 1,06,79,760 have been capitalized however the same should have not been capitalized as per Accounting Standard - 10 (AS-10) Issued by the Institute of Chartered Accountants of India (ICAI) para 9.3 of AS-10 which reads as under:

Administration and Other general overhead expenses are usually excluded from the cost of fixed assets because they do not relate to a specific fixed asset. However, in some circumstances, such expenses as are specifically attributable to construction of a project or to the acquisition of a fixed asset or bringing it to its working condition, may be included as part of the cost of the construction project or as a part of the cost of the fixed asset.

- 13- The company's certain liabilities towards power purchase/ Loans, payable to UPPCL, the Holding Company, have been converted by the Holding Company during the year into 9.68% secured Non- Convertible Bonds of U.P. Government amounting to Rs. 989,09,73,728. The total amount of interest payable on these bonds for the accounting year is Rs. 45,55,73,295. It has been explained that the amount of interest payable on these bonds is recoverable from Government as subsidy. The amount of subsidy has been credited to profit and loss account as miscellaneous receipt. However, proper documentary evidence for treating this amount as revenue subsidy was not provided to us.

- 14- Loan for terminal benefit liability Rs. 85,00,00,000
No interest has been provided on this loan.

- 15- In the undernoted loans, maturity profile of loans has not been disclosed in the financial statement in accordance with revised schedule VI to the Companies Act, 1956-



a. Loan from UPPCL (Holding Company)	Rs. 195,00,00,000
b. Loan from Rural Electrification Corporation Limited	Rs. 90,00,00,000
c. Loans from banks & others (Through UPPCL)	Rs. 1644,28,18,085
d. Loans from Power Finance Corporation Limited	Rs. 152,34,74,381
e. Unsecured Term Loans	Rs. 989,09,73,728

16- Balance with banks in current accounts Dr. Rs. 99,91,08,045

- (a) There is no proper system to reconcile the bank accounts regularly. There are various old pending outstanding entries in bank reconciliation statements as on 31.03.2014 for which details were not provided to us.
- (b) Cheques/ Draft on hand Rs. 18,42,05,198
Details showing name of party, cheque no. & date, amount of cheque of subsequent realization date has been provided to us to the extent of Rs. 14,78,12,111 only.

17- Other Current Assets

Balance with Government Authorities Rs. 47,10,24,182

The total amount includes Rs. 1,54,50,887.91 being amount of advance tax and tax deducted at source. This amount of advance tax and tax deducted at source Rs. 1,54,50,887.91 should be disclosed separately as tax deducted at source under the head "Advances recoverable in cash or in kind or for value to be received".

The total amount also includes Rs. 45,55,73,295 recoverable from the U.P. Government as subsidy towards interest payable on bonds. This amount of subsidy should be disclosed separately in the financial statement.

18- Interest Income Rs. 2,10,49,019

This is not tallied with amount of interest income appearing in form No. 26 AS issued by the Income Tax Department.

19- Provision for doubtful debt Rs. 11,20,61,325

This is the amount of provision for doubtful trade receivables and therefore should be disclosed accordingly in statement of profit and loss.

20- Security Deposit from Consumers:

- (a) Note 33 regarding the provision of interest payable on security deposits received from consumers having been made on the gross monthly opening cumulative

ledger balances(net) instead of individual consumer balances

- (b) Existing liability of interest as on 31st March 2014 is Rs. 34.10 crores which is accumulation of unpaid interest over a period of years. In absence of consumer-wise Security Deposit and interest payable thereon, the correctness of Interest Rs. 8.09 crores charged to Profit and Loss account could not be verified.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

- 21- Note 35 (ii) regarding the joint meter reading for purchase of power from UPPCL not being taken at 12 midnight on the 31st March 2014, the impact of such a method on the reported loss for the year on account of the cost of power purchase being inflated, is not ascertainable.

- 22. Non-compliance of Accounting Standard (AS) 28 on "Impairment of Assets" notified under the Companies (Accounting Standard) Rules, 2006 issued by ICAI to the extent that the company has not identified and segregated tangible fixed assets which have been impaired as at the year end. Impact of the same, if any, on the loss for the year is not ascertainable.

- 23- Note 36 regarding the balance of KESCO and KESA being subject to reconciliation. Impact if any, of the same on the assets / liabilities and / or income / expenditure consequent to such reconciliation is presently not ascertainable.

- 24- Non availability of the details with the company of the amount of Rs. 6.53 lacs pertaining to amount payable as "Other Miscellaneous Recoveries payable" included in other Current Liabilities Note '10'.

- 25- (a) Non appointment of a Company Secretary by the Company in contravention of Section 383 A of the Companies Act, 1956 has resulted in non compliance of the provisions of Companies Act, 1956. In absence of full time company Secretary, we are not in a position to comment on the adequacy of records being maintained and the extent of compliance with various laws and regulations which a Company Secretary is required to look into.



(b) Receipts from Kanpur Development Authority (KDA) for the current year amounting to Rs.22.53 lacs (Previous year Rs. 1.32 Crores) have been accounted for as capital receipt by the company under Note No. "4" Reserves & Surplus. These receipts are towards supervision charges being paid by KDA in respect of capital work done by KDA and supervised by KESCO. These receipts are Revenue Receipts and should have been accounted for as income. Had the Company accounted for these receipts as income during the year, the loss for the year would have been lower by this amount.

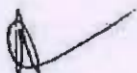
- 26- The Company has disclosed the entire amount of provision for leave encashment of Rs. 54.53 Crores as "Long Term Provisions" (NOTE 6) whereas, in terms of the Guidance Note issued by the ICAI, to the extent the employees have an unconditional right to avail the leave, should have been classified as "Current" and not as "Long Term Provisions".

Para 7.3 (b) of the guidance note on "Revised Schedule VI to the Companies Act 1956" issued by the Institute of Chartered Accountants of India (ICAI) states –

"To the extent, the employee has an unconditional right to avail the leave, the same needs to be classified as "current" even though the same is measured as Other long-term employee benefit' as per AS-15. Further it states that In case of any complexities the amount of Non-current and current portions of leave obligation should normally be determined by a qualified Actuary".

- 27- Non-compliance of Accounting Standard (AS) 2 "Inventory Valuation" issued by ICAI to the extent that the company has not valued inventory at "lower of cost and net realizable value" and also not identified realizable value of inventory considering obsolescence, damaged stock and scrap stock as at the year end. Impact of the same, if any, on the loss for the year is not ascertainable.

- 28- Secured Loan amounting to Rs. 1644.28 Crores Note No. 5 (iii) transferred from UPPCL (the holding company) taken from various banks and others could not be verified by us in absence of detailed evidence available with the company as the same has been accounted for on the basis of advice received from UPPCL.





29- OTHER CURRENT LIABILITIES

(a) Other Current Liabilities includes "Interest Payable on Electricity Duty" amounting to Rs.212.78 Crores which has not been paid to the State Govt. in view of non recovery of the same from consumers. This liability includes a provision of Rs. 30.89 Crores made during the year. As informed by the management, the matter of waiving / adjusting the same from Govt Grant is under process. It is further noted that as per the UP Electricity duty Act 1952 section 4 the company is required to pay interest @18% per annum on overdue amount of Electricity duty remaining unpaid until payment thereof. The company is making interest provision at simple interest on the total unpaid amount of electricity duty instead of overdue unpaid amount. As the Act is not making any specific disclosure of method of interest calculation, we can't comment on the accuracy or otherwise of the interest provision being made on unpaid amounts.

(b) Liability for Supply of Materials Rs. 20,59,50,767.29

This amount is payable to various suppliers towards cost of stores spares and other materials. Therefore this liability should be disclosed as "Trade Payable" in Balance Sheet.

30- No provision towards Wealth Tax Liability has been made by the company. The impact of unprovided liability can't be commented.

31- The following disclosure is not in accordance with revised Schedule VI of the companies act 1956 :

- Disclosure of default in payment of interest of Rs. 22.82 Crores as required by Revised Schedule VI of the companies Act 1956 in respect of Secured Loan of Rs. 1644.28 Crores transferred from UPPCL (the Holding Co.) has not been made in the financial statements.

32- Non Compliance with the provisions of Companies Act, 1956 :

During the year following loans taken on behalf of KESCO by UPPCL (the Holding Co.) were transferred to KESCO. No charge has been created with ROC by the KESCO in this regard hence classification as "Secured Loan" is incorrect.

(a) PFC Loan of Rs. 90.00 Crores

(b) Loan transferred from UPPCL Rs. 1644.28 Crores

(c) Loan taken from REC Ltd. Rs. 90.00 Crores

33- Internal auditors vide their Report dated 17.09.2014 for the Financial Year , observed the following deficiencies for which compliance has yet to be made by the management:

- (a) Improper up dation of Management Information System .
- (b) There are 54795 cases where the billing had been done on the basis of ADF/IDF/PROV/RDF/NA/NR during the year.
- (c) There are 248950 cases in which same meter number had been allotted to more than one consumer.
- (d) Electricity duty has not been charged in the cases where provisional bill has been raised.

Impact of the above paras on the Loss, Assets and Liabilities is presently not quantifiable.

34- disclosure regarding related parties as required by AS-18 is deficient to the following extent:

- (a) Transactions with holding company not disclosed.
- (b) Transactions with Co-subsidiaries not disclosed.

35- We draw attention to the fact that the Company's net worth has been completely eroded as at the end of the year with the accumulated losses as of that date being more than the net worth of the company and the current liabilities having exceeded its total assets by a sum of Rs. 276 Crores. These conditions indicate the existence of a material uncertainty that may cast significant doubt about the Company's ability to continue as a going concern.

36- We are of the opinion that there may be many unascertained amount requiring disclosure in addition to the ascertained amount that will have an effect on the loss, Asset and Liabilities and furnishing the aggregate effect of only the ascertained amount will not be appropriate, hence we are not furnishing the aggregate effect of the ascertained amount on the Loss, Assets and Liabilities.

Qualified Opinion

In our opinion and to the best of our information and according to the explanations given to us, except for the effects of the matter described under the heading "Basis for Qualified Opinion Paragraph above", including the matters whose effect on the loss for the year and assets / liabilities as at March 31, 2014 is unascertainable, the financial statements give the information required by the Act in

the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

- (a) in the case of the Balance Sheet, of the state of affairs of the Company as at 31st March, 2014;
- (b) in the case of the Statement of Profit and Loss, of the Loss of the Company for the year ended on that date; and
- (c) in the case of the Cash Flow Statement, of the cash flows of the Company for the year ended on that date.

Emphasis of Matter

We draw attention to the following paragraphs in the notes forming part of the financial statements and certain other matters specified, herein below. Our opinion is not qualified in respect of these matters:

- (a) Note 31 (i) regarding the Company not having ascertained the value of the leasehold land received from UPPCL as it continues to hold the same at a nominal value of Re. 1.00.
- (b) Note 31 (ii) regarding the sum of Rs. 7.44 Crores having been deposited with the state government for conversion of leasehold land to freehold. The corresponding lease deed is not on record and in spite of the same reportedly being in the name of UPPCL (as lessor), the amount paid for conversion to freehold by the Company (as lessee) has not been reflected as being receivable from UPPCL, the lessor. There is however, no impact of the same on the loss for the year.
- (c) Notes 5 and 10 regarding the disclosure by the management of the Loan for Terminal benefit liabilities from UPPCL (Holding Company) of Rs. 85 Crores as secured loan in spite of the relevant loan agreement remaining to be executed as at the year end. In the absence of the same and details of security also not being available, we have not been able to ascertain the correctness of the classification of the loan as Secured by the management as at the year end.
- (d) "Contingent Liabilities and Commitment arising out of the claims against the company not acknowledged as debts" and "Estimated amount of Contracts remaining to be executed on capital accounts not provided for" under notes 26 (i) and (ii) respectively are as submitted by the management and have not been

verified by us in the absence of any details having been provided by the management.

- (e) The Company's computerization of the financial and accounting operations are not satisfactory. Financial Accounting has been computerized only to the extent of maintaining General Ledger based on consolidated entries of SJ's passed in Tally software together with closing entries of provisions, yearend adjustments etc. The base entries are still manual. The Company needs to computerize operations at all locations implementing a customized ERP software with administrative and user rights as per the delegations chart.

Report on Other Legal and Regulatory Requirements

1. As required by the Companies (Auditor's Report) Order, 2003 ("the Order"), issued by the Central Government of India in terms of sub - section (4A) of section 227 of the Act, and on the basis of such checks as we considered appropriate, we give in the Annexure a statement on the matters specified in paragraphs 4 and 5 of the Order.
2. As required by Section 227(3) of the Companies Act , we report that:
 - (a) We have obtained information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit except the matter described under the heading in the "Basis for Qualified Opinion" Paragraph above.
 - (b) In our opinion, proper books of account as required by law have been kept by the Company so far as it appears from our examination of those books subject to the following:
 - (i) Partywise security deposit register is not maintained.
 - (ii) Fixed Assets register maintained in excel is having various deficiencies as the same is not showing the details required as reported in Para (i) (a) of CARO.
 - (iii) Subsidiary record of debtors is not maintained in a manner that can give correct disclosure as required by the Revised Schedule VI of companies Act 1956 and age analysis.
 - (c) The Balance Sheet, the Statement of Profit and Loss and the Cash Flow Statement dealt with by this Report are in agreement with the books of account.
 - (d) In our opinion, the Balance Sheet, the Statement of Profit and Loss, and the Cash Flow Statement comply with the Accounting Standards notified under the

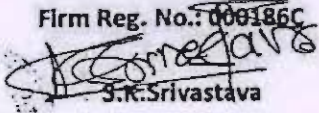
Companies Act, 1956 read with the General Circular 15/2013 dated 13th September 2013 of Ministry of Corporate Affairs in respect of section 133 of the Companies Act, 2013 except non-compliance of following Accounting Standards:

- (i) Accounting Standard- 2 (Valuation of Inventories)
- (ii) Accounting Standard – 9 (Revenue Recognition)
- (iii) Accounting Standard – 10 (Accounting for fixed Assets)
- (iv) Accounting Standard – 15 (Accounting for Retirement Benefits)
- (v) Accounting Standard – 18 (Related Party Disclosures)
- (vi) Accounting Standard – 28 (Impairment of Assets)

Impact of the above non-compliance of Accounting Standards on the Loss and Assets and Liabilities is presently not quantifiable.

- (e) Being a Government Company, pursuant to the notification number GSR 829(E) dated October 21, 2003, issued by the Government of India, the provisions of section 274(1) (g) of the Companies Act 1956 are not applicable to the Company.

For P.L. Tandon & Co.
Chartered Accountants
Firm Reg. No.: 000186C


S.K. Srivastava
M.No. 70455
(Partner)

Place: Kanpur
Date: 18.05.2015

Annexure to the Auditors' Report

Re: Kanpur Electricity Supply Company Limited

Referred to in paragraph 1 under the heading "Report on other Legal and Regulatory Requirement" of our report of even date.

(i) In respect of its fixed assets:

- (a) The Fixed Assets records maintained by the Company do not contain sufficient description of the Assets to make identification possible including make / type, location / situation, actual date of purchase, assets that have been retired from active use and held for disposal etc. Further, no details are on record with respect to the Fixed Assets referred to in Note No. 27 (ii) of Notes forming part of the financial statements for the year ended 31st March, 2014.
- (b) The Fixed Assets of the Company have not been physically verified by the management at any time during the year. Accordingly, the reconciliation of the quantity as per the books and that as per physical count was not carried out by the management on account of which material discrepancies, if any were not determined as at the end of the year.
- (c) There was no substantial disposal of fixed assets during the year and accordingly the provisions of clause 4 (i) (c) of the Order is not applicable.
- (d) Separate record in respect of company's own fixed assets and assets constructed on behalf of the consumers has not been maintained. We, therefore, could not verify the cost of company's own fixed assets and depreciation thereon.

(ii) In respect of its inventories

- (a) There is no substantive evidence on record to show that the management has carried out the actual physical verification of the stock of stores and spares as at the end of the year.

- (b) In absence of substantive evidence of physical verification, we can't comment on the adequacy of system of physical verification.
 - (c) On the basis of our examination of the inventory records, in our opinion, the company is maintaining proper records of inventory. As per information and explanation given to us by the management, no material discrepancies were noticed on physical verification.
 - (d) Stock of scrap spares and damaged spares have not been valued and has been shown at NIL value.
 - (e) Stock records of reclaimed used / burnt transformer oil has not been maintained. However reclamation charges paid for used/ burnt transformer oil has been debited to profit and loss statement under the expenses head- "Repair and Maintenance".
- (iii) In respect of loans secured or unsecured granted or taken by the company to or from companies, firms or other parties covered in the register maintained under section 301 of the Companies Act, 1956, according to the information and explanations given to us :
- (a) As informed, the Company has not granted any loans, secured or unsecured to Companies, firms or other parties listed in the register maintained under the Section 301 of the Companies Act. Accordingly, provisions of clauses 4 (iii) (a) to (d) of the order are not applicable.
 - (b) As informed, the company has not taken any loans, secured or unsecured, from companies, firms or other parties listed in the register maintained under section 301 of the Companies Act. Accordingly, the provisions of clause 4 (iii) (e) to (g) of the order is not applicable.
- (iv) In our opinion and according to the information and explanations given to us, internal control system with regard to purchase of inventory and fixed assets required to be further strengthened. In case of sale of energy also there is need for improvement of internal control with respect to taking of stringent and appropriate measures to control electricity theft where it is in excess of normal line losses. Further, on the basis of our examination of the books and records of the company, carried out in accordance with the auditing standards generally accepted in India, we have not observed any continuing failure to correct major weaknesses in the internal controls system except in case of energy theft in

various divisions as referred to above which is more in comparison to the normal losses being suffered in other divisions / companies.

- (v) In respect of transactions entered in the register maintained in pursuance of section 301 of the Companies Act, 1956

According to the information and explanations provided by the management, there have been no transactions during the year that need to be entered into register maintained under section 301 of the Companies Act, 1956. The Company is a government company and is a subsidiary of another Government Company; UP Power Corporation Limited (UPPCL). The Company has taken Secured and Unsecured loans from the UPPCL. However, since a Government Company entering into transaction with other Government Companies is outside the purview of section 297, the same were not required to be entered into the said register. Further, for similar reasons the provisions of clause 4 (v) (b) of the order are not applicable.

- (vi) In our opinion and according to the information and explanations given to us the Company has not accepted any deposits from the public within the meaning of section 58A & 58AA of the companies Act and the rules framed thereunder.

- (vii) Although, the Internal audit of the Company is being conducted by a firm of Chartered Accountants, in our opinion, the scope and coverage including the frequency of the Internal audit needs to be improved in order to be commensurate with the size and nature of its business and these reports need to be discussed at Independent Audit Committee level for better monitoring and corrective actions at highest level.

- (viii) The management informed us that the Company has during the current year maintained the Cost record prescribed under clause (d) of sub-section (1) of Section 209 of the Act. We have, however, not made a detailed examination of the same with a view to determine whether they are accurate or complete.

- (ix) According to the information and explanations given to us, in respect of statutory and other dues:

- a) According to the information and explanation given to us and the records of the Company produced and examined by us, in our opinion, the Company has generally been regular in depositing undisputed statutory dues including provident fund (to the trust), Service Tax and VAT as applicable, with the

appropriate authorities except for some delays during the year in deposit of the same. The provisions relating to Employee State Insurance Act are not applicable to the Company. Further, since the Central Government has till date not prescribed the amount of cess payable under section 441A of the companies act, 1956 we are not in a position to comment upon the regularity or otherwise of the Company in depositing the same.

- b) According to the information and explanations given to us, no undisputed amounts payable in respect of income tax, sales tax, wealth tax, service tax, customs duty, excise duty were in arrears as at 31st March, 2014 for a period more than six months from the date they became payable except under noted cases.

Name of the Statute	Nature of the Dues	Amount (Rs. In Crores)	Period to which the amount relates	Due date	Date of Payment
U.P. Government	Electricity duty	181.71	Not Available	Not Available	-
U.P. Government	Compounding Charges	8.73	Not Available	Not Available	-

- c) According to the information and explanations given to us, there are no dues of income tax, sales tax, wealth tax, service tax, customs duty and excise duty which have not been deposited on account of any disputes.

- (x) The Company has accumulated losses at the end of the year which are more than fifty percent of its net worth. The Company has incurred cash losses during the current year and in the immediately preceding financial year. However, effects of the qualifications which cannot be quantified have not been considered for the purpose of making comments in respect of this clause.
- (xi) In our opinion and according to the information and explanations given to us, the Company has not taken any loans from debenture holders. Accordingly, the provisions of clause (xi) of paragraph 4 of the order to that extent are not applicable. With respect to the loans taken from banks and others Institutions,

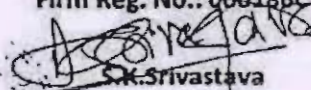
it is observed that the company has defaulted in payment of interest amounting to Rs. 22.82 Crores due at the year end as advised by UPPCL.

- (xii) According to the information and explanations given to us, the Company has not granted loans and advances on the basis of security by way of pledge of shares, debentures and other securities and as such, in our opinion, clause (xii) of paragraph 4 of the order is not applicable to the company.
- (xiii) In our opinion, since the Company is not a chit fund or a Nidhi / Mutual benefit fund / society, clause (xiii) of paragraph 4 of the order is not applicable to the Company.
- (xiv) In our opinion and according to the information and explanations given to us, the Company during the year has not traded in shares and securities and as such the clause (xiv) of paragraph 4 of the order is not applicable to the Company.
- (xv) In our opinion, and according to the information and explanations given to us, since the company has not given any guarantee for loan taken by others from banks or financial institutions during the year, the provisions of clause (xv) of paragraph 4 of the order is not applicable to the Company.
- (xvi) In our opinion and according to the information and explanations given to us and on an overall examination of the Balance Sheet of the Company and relevant records produced before us, the company has taken total term loans amounting to Rs. 1633.84 Crores which has been utilized to pay off the trade payables.
- (xvii) According to the information and explanations given to us and on an overall examination of the Balance Sheet of the company, in our opinion, no short term funds raised during the year have been used for long term investment.
- (xviii) According to the information and explanations given to us, during the period covered by our audit report, the company has not made any preferential allotment of shares to parties and Companies and as such, the provisions of clause (xviii) of paragraph 4 of the order are not applicable to the company.
- (xix) The Company did not have any outstanding debentures as on the Balance Sheet date. Accordingly, provisions of clause (xix) of paragraph 4 of the order are not applicable to the company.

(xx) During the period covered by our audit report, the company has not raised any money by way of a public issue and, as such, clause (xx) of paragraph 4 of the order is not applicable to the company.

(xxi) During the course of our examination of the books and records of the company, carried out in accordance with the generally accepted auditing practices in India, and according to the information and explanations given to us, we have neither come across any instance of material fraud on or by the company, noticed or reported during the year, nor have we been informed of any such case by the management.

For P.L. Tandon & Co.
Chartered Accountants
Firm Reg. No. 000186C



M. No. 70455
(Partner)

Place: Kanpur
Date: 18.05.2015

**ANNUAL REVENUE REQUIREMENT PETITION
FOR FY 2016-17**

ANNEXURE - 3

Provisional Balance Sheet for FY 2014-15



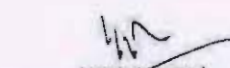
**KANPUR ELECTRICITY SUPPLY COMPANY LIMITED
KANPUR**

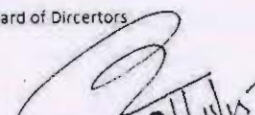
Kanpur Electricity Supply Company Limited
Balance Sheet as at 31st March, 2015

Provisional

Particulars		Note No.	As at 31st March, 2015	As at 31st March, 2014
			₹	₹
A	EQUITY AND LIABILITIES			
1	Shareholders' funds			
	(a) Share Capital	3	1,63,14,74,000.00	1,63,14,74,000.00
	(b) Reserves and Surplus	4	-33,07,99,19,174.30	-31,70,26,99,436.30
			-31,44,84,45,174.30	-30,07,12,25,436.30
2	Share application money pending allotment	40	3,77,82,24,917.88	50,89,32,000.00
3	Non-current liabilities			
	(a) Long-term borrowings	5	28,56,23,82,658.03	28,65,19,15,466.03
	(b) Long-term provisions	6	51,29,00,019.00	54,52,81,029.00
	(c) Other Long term Liabilities	7	1,27,64,74,153.27	1,19,23,98,292.38
			30,35,17,56,830.30	30,38,95,94,787.41
4	Current liabilities			
	(a) Short-term borrowings	8	38,41,97,713.42	38,41,97,713.42
	(b) Trade Payables	9	3,62,13,84,906.61	6,73,43,89,199.51
	(c) Other Current liabilities	10	17,61,25,74,229.75	14,65,28,46,535.39
	(d) Short-term provisions	11	25,14,75,602.00	29,57,39,060.00
			21,86,96,32,451.78	22,06,71,72,508.32
	TOTAL		24,55,11,69,025.66	22,89,44,73,859.43
B	ASSETS			
1	Non-current assets			
	(a) Fixed assets			
	(i) Tangible assets	12	3,29,83,12,107.74	3,26,31,59,786.85
	(ii) Capital work-in-progress	13	27,18,51,988.01	24,55,14,171.59
	(b) Long-term loans and advances	14	35,67,88,878.86	35,15,33,817.71
	(c) Other Non Current Assets			
			3,92,69,52,974.61	3,86,02,07,776.15
2	Current assets			
	(a) Inventories	15	28,68,40,634.01	30,28,55,923.75
	(b) Trade receivables	16	18,14,08,57,764.30	16,77,47,81,735.09
	(c) Cash and Cash Equivalents	17	1,56,59,01,511.72	1,20,19,96,440.14
	(d) Short-term loans and advances	18	30,08,81,621.11	28,35,87,546.39
	(f) Other Current Assets	19	32,97,34,519.91	47,10,44,437.91
			20,62,42,16,051.05	19,03,42,66,083.28
	TOTAL		24,55,11,69,025.66	22,89,44,73,859.43
Notes forming part of the Financial Statements		1 to 43		

For and on behalf of the Board of Directors


(Pankaj Saxena)
Dy.C.A.O.

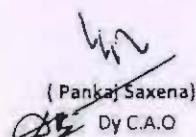

(Selva Kumari)
Managing Director

Dated:
Place: Kanpur

Kanpur Electricity Supply Company Limited
Statement of Profit and Loss for the year ended 31st March, 2015

Particulars		Note No.	2014-15	2013-14
			₹	₹
1	Revenue from Operations	20	16,89,24,40,608.65	15,45,24,23,726.09
2	Other Income	21	2,45,79,29,910.42	48,40,56,754.02
3	Total revenue		19,35,03,70,519.07	15,93,64,80,480.11
4	Expenses			
	(a) Purchase of Power	22	15,99,65,75,869.10	17,38,14,28,341.00
	(b) Employee benefit expenses	23	98,00,48,973.72	1,02,51,17,937.32
	(c) Finance Cost	24	2,74,60,20,660.71	3,02,44,33,207.09
	(d) Depreciation	12	12,10,56,241.74	17,76,30,212.36
	(e) Other expenses	25	1,02,36,14,079.00	1,06,78,31,279.60
	Total expenses		20,86,73,15,824.27	22,67,64,40,977.37
5	Loss for the year		-1,51,69,45,305.20	-6,73,99,60,497.26
6	Earnings per share (of ₹ 10/- each)			
	Basic	37	-9.30	-41.31
Notes forming part of the Financial Statements		1 to 43		

For and on behalf of the Board of Directors


(Pankaj Saxena)
Dy C.A.O


(Selva Kumari J.)
Managing Director

Dated:
Place: Kanpur

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 3 - SHARE CAPITAL

Particulars	As at 31st March, 2015		As at 31st March, 2014	
	Number of shares	₹	Number of shares	₹
(i) Authorised				
Equity shares of ₹ 10 each	30,00,00,000	3,00,00,00,000.00	30,00,00,000	3,00,00,00,000.00
	30,00,00,000	3,00,00,00,000.00	30,00,00,000	3,00,00,00,000.00
(ii) Issued				
Equity shares of ₹ 10 each	16,31,47,400	1,63,14,74,000.00	16,31,47,400	1,63,14,74,000.00
	16,31,47,400	1,63,14,74,000.00	16,31,47,400	1,63,14,74,000.00
(iii) Subscribed and fully paid up				
Equity shares of ₹ 10 each	16,31,47,400	1,63,14,74,000.00	16,31,47,400	1,63,14,74,000.00
	16,31,47,400	1,63,14,74,000.00	16,31,47,400	1,63,14,74,000.00

- 1) During the period 15th January 2000 to 31st March 2000, 5,99,99,300 Equity Shares were allotted to UPPCL (Holding Company) as fully paid up pursuant to Uttar Pradesh Transfer of KESA Zone Electricity Distribution Scheme, 2000 without payment being received in cash.
2) During the year 2014-15 the company has not allotted any share.

(i) Reconciliation of the number of shares and amount outstanding at the beginning and at the end of the reporting period:

Particulars	Opening Balance	Fresh Issue during the year	Closing Balance
(a) Issued Equity Shares			
Year ended 31st March, 2015			
Number of shares	16,31,47,400.00	0.00	16,31,47,400
Amount (₹)	1,63,14,74,000.00	0.00	1,63,14,74,000.00
Year ended 31st March, 2014			
Number of shares	16,31,47,400.00	0.00	16,31,47,400
Amount (₹)	1,63,14,74,000.00	0.00	1,63,14,74,000.00
(b) Subscribed and fully paid up Equity shares			
Year ended 31st March, 2015			
Number of shares	16,31,47,400.00	0.00	16,31,47,400
Amount (₹)	1,63,14,74,000.00	0.00	1,63,14,74,000.00
Year ended 31st March, 2014			
Number of shares	16,31,47,400.00	0.00	16,31,47,400
Amount (₹)	1,63,14,74,000.00	0.00	1,63,14,74,000.00

(ii) Details of shares held by the holding company :

Particulars	Equity shares
	Number of shares
As at 31st March, 2015	
Uttar Pradesh Power Corporation Limited	16,31,46,700
As at 31st March, 2014	
Uttar Pradesh Power Corporation Limited	16,31,46,700

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

(iii) Details of shares held by shareholder holding more than 5% shares:

Class of shares / Name of shareholder	As at 31st March, 2015		As at 31st March, 2014	
	Number of shares held	% holding	Number of shares held	% holding
Equity shares				
Uttar Pradesh Power Corporation Limited	16,31,46,700	99.9996%	163146700	99.9996%

(iv) The company has only one class of equity shares having par value of ₹ 10 per share. Each equity share is entitled to one vote.

In the event of liquidation of the Company the holders of equity share will be entitled to receive the assets in proportion to the number of equity shares held by each of them.

NOTE 4 : RESERVES & SURPLUS

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
(a) Capital Reserves (contribution, grants & subsidy towards cost of capital assets)		
Opening balance	2,26,71,85,366.89	2,15,52,85,281.16
Add: Additions during the year (consumer contribution received during the year)	18,44,73,557.20	11,19,00,085.73
	2,45,16,58,924.09	2,26,71,85,366.89
Less : Deduction during the year (amortised till 31st March 2015)	-80,59,93,819.92	-76,12,45,829.92
Closing balance	1,64,56,65,104.17	1,50,59,39,536.97
(b) Deficit in Statement of Profit and Loss		
Opening balance	-33,20,86,38,973.27	-26,46,86,78,476.01
Add: Loss for the year	-1,51,69,45,305.20	-6,73,99,60,497.26
Closing balance	-34,72,55,84,278.47	-33,20,86,38,973.27
Total	-33,07,99,19,174.30	-31,70,26,99,436.30

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 5 : LONG TERM BORROWINGS

Particulars		As at 31st March, 2015	As at 31st March, 2014
		₹	₹
Secured Term loans (Refer note below)			
(i) From UPPCL (Holding Company)			
Loan Outstanding As on 31/03/2015	1,95,00,00,000.00		
Less: Amount overdue shown as current liability under Note -10	1,95,00,00,000.00	0.00	0.00
		0.00	0.00
(ii) Rural Electrification Corporation Limited		900000000.00	900000000.00
(iii) Term Loan from Banks & Others (through UPPCL)		19755629343.03	16442818085.03
Syndicate Bank	202383811.00		
Krur Vysya Bank	23485185.73		
State Bank of India	708290924.00		
Punjab National Bank	2343472418.00		
Vijay Bank	557932787.37		
Union Bank of India	1369402846.00		
Allahabad Bank	831602189.00		
Indian Overseas Bank	549338087.00		
Dena Bank	413734370.00		
Central Bank of India	1946817684.05		
Bank of Maharashtra	278941227.00		
UCO Bank	893274262.00		
Bank of Baroda	381715261.64		
Oriental Bank of Commerce	1139642504.00		
Bank of India	461315227.00		
South Indian Bank	117265898.00		
Punjab and Sindh Bank	536209948.00		
Federal Bank	63169916.24		
Corporation Bank	684967848.00		
Canara Bank	1714524529.00		
PFC Transitional Loan	2115340060.00		
REC Loan	2422802360.00		
(iv) Power Finance Corporation Limited			
Loan Outstanding As on 31/03/2015	1418123648.00		
Less: Amount shown as current Liabilities sch 10	105350733.00	1,31,27,72,915.00	1,41,81,23,653.00
		21,96,84,02,258.03	18,76,09,41,738.03
Bonds		6,59,39,80,400.00	9,89,09,73,728.00
		6,59,39,80,400.00	9,89,09,73,728.00
Total		28,56,23,82,658.03	28,65,19,15,466.03

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

Notes on loans:

(a) Loan from Uttar Pradesh Power Corporation Ltd (Rs 195.00 Crore)

(i) Secured Loan from UPPCL of ₹ 110.00 Crores are secured by way of the first charge over the distribution system and the distribution assets of the erstwhile KESA as transferred to KESCO by the transfer scheme as on the appointed date.

(ii) Terminal benefit liabilities of ₹ 85.00 crores as on 15.01.2000 transferred to KESCO as per the transfer scheme were taken over by the State Government vide its order no. 3972 dated 09.02.2004. The said amount of ₹ 85.00 Crores has been considered as Secured loan from UPPCL even though the loan agreement between the parties is pending to be executed, and accordingly the Security details cannot be ascertained.

The above term loans are fully overdue hence the same has been reflected as Other Current Liabilities under Note No- 10.

Rate of

Interest

The Board of Directors of UPPCL had resolved on the 19th of October 2005 that the interest would not be payable by KESCO to UPPCL till such time it does not earn profit accordingly, no provision has been made during the year by the Company for the liability on account of the aforesaid interest and surcharge.

DEFAULT IN REPAYMENT OF INTEREST & PRINCIPAL AMOUNT

Particulars	As at 31st March, 2015		As at 31st March, 2014	
	Period of default	₹	Period of default	₹
Term loans from UPPCL (Holding Company)				
Term Loan	5 years	1,10,00,00,000.00	4 years	1,10,00,00,000.00
Terminal Benefit Liability	Refer Note below	85,00,00,000.00	Refer Note below	85,00,00,000.00
Loan from State Government through UPPCL (APDRP)				
Principal Amount	Since 2004-05		Since 2004-05	1,58,35,865.00
Interest Amount	Since 2004-05		Since 2004-05	4,39,89,005.20

Terminal Benefit Liability : In the absence of any agreement having been executed the period of default of the Term Loan of ₹ 85 Crores cannot be ascertained.

(b) Rural Electrification Corporation: This loan has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. The loan carry a interest of 13.25% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter.

(c) Term Loan from Banks & Others (through UPPCL): These loans have been taken from various financial institutions and others and have been transferred by UPPCL to the company. These are secured against Trade Receivables by the company. The loan is repayable in 84 monthly equated installments after a moratorium of 36 months and due for repayment starting from April 2015 except loan taken from Mandi Parishad and Noida which are interest free

(d) Power Finance Corporation Limited

The Secured loan from Power Finance Corporation Limited is secured by the hypothecation by way of first charge over the whole of the moveable assets of the Company under the APDRP scheme including replacement thereof whether stores, lying loose or in transit. An additional loan amounting to Rs 90.00 crore has been transferred from UPPCL (holding company) and is guaranteed by the State Govt. This additional loan carry a interest of 12.62% with moratorium of 36 months which is to be repaid in 84 equated monthly installment thereafter. Terms and condition of old loan are given hereunder.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

TERMS OF REPAYMENT AND RATE OF INTEREST ON LOAN

1 : PFC 08621002 : Corporation sanctioned a loan of ₹ 32.14 Crore for the implementation of the Kanpur Town / Circle Scheme under APDRP, involving a total cost of ₹ 64.28 Crore on the terms & conditions contained in the corporation's letter dated 28th July 2005 & amendment thereof dated 16th September 2005.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
10th October 2005	4,82,10,000.00	The loan shall be repaid in Forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum of Agreement. The first installment will become due on 15th day of April 2007.
21st November 2005	6,90,72,855.00	
30th December 2005	6,64,96,619.00	
31st January 2006	6,01,68,132.00	
26th April 2006	3,39,17,311.00	
4th July 2006	7,60,381.00	
10th November 2006	4,27,74,702.00	
	32,14,00,000.00	

Rate of Interest

As per the Agreement executed between the parties, KESCo was to pay interest at the rates as applicable on the date of each disbursement pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2014-15 is 13 & 13.25 % as per the Statement received from PFC.

Kanpur Electricity Supply Company Limited**Notes forming part of the financial statements for the year ended 31st March, 2015**

2 : PFC 08621003 : In respect of this project, KESCO & Corporation executed a Memorandum of Agreement dated 06.11.2006 whereby the Corporation agreed to grant a additional loan of ₹ 16.07 Crore.

Owing to an increase in the revised cost of the project from ₹ 64.28 Crore to ₹ 94.66 Crore , the Corporation further agreed to enhance the loan amount from ₹ 16.07 Crore to ₹ 46.45 Crore by granting an additional loan of ₹ 30.38 Crore on the terms & conditions contained in corporation's letter dated 30th March 2007.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
15th December 2006	2,41,00,000.00	The loan to be repaid in Forty (40), equal quarterly installments and interest and other monies thereon as per the terms of the Memorandum of Agreement. The first installment became due on the 15th day of October 2008 and the subsequent installments became due for payment on the 15th day of July, October, January and April, every year.
01st February 2007	2,39,88,745.00	
27th February 2007	1,06,370.00	
02nd March 2007	2,37,07,625.00	
23rd March 2007	2,40,18,516.00	
30th March 2007	2,29,55,473.00	
09th May 2007	1,84,88,322.00	
15th June 2007	90,51,352.00	
09th July 2007	91,39,592.00	
14th August 2007	38,05,184.00	
19th September 2007	4,55,75,000.00	
04th December 2007	2,92,56,126.00	
09th January 2008	2,68,19,025.00	
18th March 2008	2,29,30,881.00	
11th April 2008	2,95,98,409.00	
12th July 2010	2,23,96,889.00	
18th October 2010	21,83,950.00	
15th March 2011	95,89,002.00	
30th March 2011	5,32,18,401.00	
	40,09,28,862.00	

Rate of Interest

As per the Agreement executed between the parties, KESCO was to pay interest at the rates as applicable on the date of each disbursement along with interest tax at the rate applicable time to time pertaining to the grading of the borrower alongwith interest tax at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2014-15 was 13.25% as per Statement received from PFC.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

3 : PFC 08607001 : Corporation sanctioned a loan of ₹ 49.98 Crore for the purpose of installation of Aerial Bunched Conductor for theft prevention in distribution areas of KESCO on the terms & conditions contained in corporation's letter dated 29th February 2008 and 09th May 2008.

Date of Disbursement	Amount of Disbursement (₹)	Repayment Terms
04th August 2008	7,49,70,000.00	The loan to be repaid by the borrower in sixty (60) equal quarterly installments. The first installment became due on the 15th day of April 2010 and the subsequent installments became due for payment on the 15th day of July, 15th day of October, 15th day of January and 15th day of April, every year.
27th August 2008	6,89,87,064.00	
04th February 2009	4,74,30,529.00	
11th February 2009	4,94,32,090.00	
24th February 2009	7,18,69,084.00	
20th May 2009	5,29,35,257.00	
31st March 2010	3,65,75,443.00	
27th February 2013	2,46,56,594.00	
1st March 2013	55,57,640.00	
21st March 2013	1,28,37,439.00	
	44,52,51,140.00	

Rate of Interest

As per the Agreement executed between the parties, KESCO was to pay interest at the rate as applicable on the date of each disbursement pertaining to the grading of the borrower at the rates applicable from time to time.

Further, notwithstanding anything herein above, the Corporation has the right to reset the rate of interest at its discretion. The revised rates to take effect from such date as may be specified by the Corporation in this behalf.

The rate of interest during the year 2014-15 is 13.00% to 13.25% as per the statement received from PFC.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 6 : LONG TERM PROVISIONS

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Provision for employee benefits		
(i) Provision for leave encashment	51,29,00,019.00	54,52,81,029.00
(ii) Provision for arrears of Vith Pay Commission	-	-
Total	51,29,00,019.00	54,52,81,029.00

NOTE 7 : Other long term Liabilities

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
(i) Security deposit	1,12,86,03,041.03	1,04,45,27,180.14
(ii) Advance to Supplier	33,03,088.27	33,03,088.27
(iii) Restructuring Account	14,45,68,023.97	14,45,68,023.97
Total	1,27,64,74,153.27	1,19,23,98,292.38

NOTE 8 : SHORT TERM BORROWINGS

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
(i) Interest Free Loan from UPPCL (Holding Company)		
Loan against Power Purchase (Unsecured)	22,77,97,713.42	22,77,97,713.42
(ii) Loan from Noida (Unsecured)	15,64,00,000.00	15,64,00,000.00
	38,41,97,713.42	38,41,97,713.42
Total	38,41,97,713.42	38,41,97,713.42

Notes:

REPAYMENT & INTEREST DETAILS

Loan against Power Purchase is repayable on demand

The Board of Directors of UPPCL had resolved on the 19th of October 2005 that the Interest on the Unsecured loan against power purchase, would not be payable by KESCO to UPPCL till such time it does not earn profit.

Accordingly, no provision has been made during the year by the Company for the liability on account of the aforesaid interest.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 9 - TRADE PAYABLES

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Trade Payables For Power Purchase (UPPCL)	3,62,13,84,906.61	6,73,43,89,199.51
Total	3,62,13,84,906.61	6,73,43,89,199.51

NOTE 10 - OTHER CURRENT LIABILITIES

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
(i) Current maturities of Long-Term Borrowings (Refer Detail below)	2,05,53,50,733.00	2,05,53,50,728.00
(ii) Interest accrued but not due on borrowings -PFC	35,91,29,524.76	50,39,38,265.36
(iii) Interest accrued and due on borrowings	50,83,79,579.96	50,83,79,579.96
(iv) Statutory remittances	2,06,879.00	24,271.00
(v) Due to UPPCL	9,05,74,75,645.04	6,55,91,78,849.29
(vi) Due to State Government	4,51,87,06,487.26	4,03,21,88,515.05
(vii) Due to Distribution Companies:-		
PVVNL(Varanashi)	4,75,24,319.00	4,75,24,319.00
MVVNL	4,90,82,401.26	4,97,84,301.26
PASHVVNL	1,03,22,349.00	1,03,22,349.00
(viii) Due to U.P. State Power Sector Employees Trust	5,64,07,153.35	7,01,43,473.35
(ix) Liability for Supply of Material	15,55,93,559.53	20,59,38,527.29
(x) Audit & Other Professional Fee Payable	-	4,31,462.00
(xi) Others	29,58,44,233.43	15,97,94,326.40
(xii) Liability for Expenses	2,34,78,862.60	2,75,94,801.80
(xiii) Liability for Salary	8,41,01,622.00	8,12,07,574.56
(xiv) Interest accrued on security deposits form consumers	39,09,70,880.56	34,10,45,192.07
Total	17,61,25,74,229.75	14,65,28,46,535.39

Details of Current maturities of long-term debt (Refer Notes 5 - Long-term borrowings for details of security & repayment terms)

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Secured Term loans		
(i) From UPPCL (Holding Company)	1,95,00,00,000.00	1,95,00,00,000.00
(ii) From PFC	10,53,50,733.00	10,53,50,728.00
Unsecured Term loans		
Loan from State Government through UPPCL (APDRP)		
Total	2,05,53,50,733.00	2,05,53,50,728.00

NOTE 11 - SHORT TERM PROVISIONS

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Provision for employee benefits		
Provision for arrears of VIth Pay Commission	25,14,75,602.00	29,57,39,060.00
Total	25,14,75,602.00	29,57,39,060.00

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 12 : TANGIBLE FIXED ASSETS

A	Tangible assets	Useful Life(Years)	Gross block			Accumulated depreciation				Net block	
			Balance as at 1 April, 2014	Additions during 2014-15	Balance as at 31st March, 2015	Accumulated depreciation	Depreciation expense for the year	Other Adjustments (Prior Period items)	Balance as at 31st March, 2015	Balance as at 31st March, 2015	Balance as at 31st March, 2014
			₹	₹	₹	₹	₹	₹	₹	₹	₹
A	Transmission Lines										
1	Incoming Lines	40	72,76,82,760.95	59,28,735.00	73,36,11,495.95	55,06,36,463.53	6,39,67,359.15		61,46,03,822.68	11,90,07,673.27	17,70,46,297.42
2	Details of outgoing feeders	40	1,79,02,24,134.33	4,18,95,070.42	1,83,21,19,204.75	98,17,50,733.26			98,17,50,733.26	85,03,68,471.49	80,84,73,401.07
3	LT Lines with poles	40	1,44,41,78,497.08	4,75,30,829.93	1,49,17,09,327.01	49,72,86,363.31			49,72,86,363.31	99,44,22,963.70	94,68,92,133.77
	Sub Total (A)		3,96,20,85,392.36	9,53,54,635.35	4,05,74,40,027.71	2,02,96,73,560.10	6,39,67,359.15	-	2,09,36,40,919.25	1,96,37,99,108.46	1,93,24,11,832.26
B	Plant & Machinery/Transformers										
1	Transformers with support	35	1,03,65,82,947.78	6,68,33,203.81	1,10,34,16,151.59	29,80,61,321.36			29,80,61,321.36	80,53,54,830.23	73,85,21,626.42
2	Switching statolon details	35	4,65,15,753.99	70,54,725.76	5,35,70,479.75	1,49,75,137.99			1,49,75,137.99	3,85,95,341.76	3,15,40,616.00
3	Sub station details	35	64,13,25,928.56	48,91,615.00	64,62,17,543.56	36,57,79,352.56	4,82,27,598.02		41,40,06,950.58	23,22,10,592.98	27,55,46,576.00
4	11 KV Substations	35	23,88,835.56	25,09,993.67	48,98,829.23	19,18,043.15			19,18,043.15	29,80,786.08	4,70,792.41
	Sub Total (B)		1,72,68,13,465.89	8,12,89,538.24	1,80,81,03,004.13	68,07,33,855.06	4,82,27,598.02	-	72,89,61,453.08	1,07,91,41,551.05	1,04,60,79,610.83
C	Buildings										
	Land on Lease	-	1.00		1.00					1.00	1.00
1	Colonies of Kesa	30	101631335.65		101631335.65	2,85,82,199.10	42,02,456.41		3,27,84,655.51	6,88,46,680.14	7,30,49,136.55
2	Office Details	30	15789079.22	92,42,132.87	25031212.09	26,90,718.18	6,31,781.53		33,22,499.71	2,17,08,712.38	1,30,98,361.04
3	Civil Engg. Details	30	174255758.30		174255758.30	3,33,57,252.81	2,61,82,449.33		5,95,39,702.14	11,47,16,056.16	14,08,98,505.49
4	Tube Well	5	1286800.44	36,04,338.63	4891139.07	7,01,922.26			7,01,922.26	41,89,216.81	5,84,878.18
5	Fencing	5	12620.86		12620.86	3,661.21			3,661.21	8,959.65	8,959.65
6	Road	5	603733.69	72,03,200.75	7806934.44	31,914.00			31,914.00	77,75,020.44	5,71,819.69
7	False Ceiling	3	84506.93		84506.93	6,106.14			6,106.14	78,400.79	78,400.79
8	Building RCC Structure	60	293196.50	4,79,771.52	772968.02	10,723.52			10,723.52	7,62,244.50	2,82,472.98
	Sub Total (C)		293957032.59	20529443.77	314486476.36	65384497.22	31016687.27	0.00	96401184.49	218085291.87	228572535.37
D	Office Equipment	5	64052581.06	7,83,480.00	64836061.06	5,23,01,627.56	19,89,339.29		5,42,90,966.85	1,05,45,094.21	1,17,50,953.50
	Sub Total (D)		64052581.06	783480.00	64836061.06	52301627.56	1989339.29	0.00	54290966.85	10545094.21	11750953.50
E	Furniture & fixture	10	13245085.72	2,19,435.27	13464520.99	89,25,970.80	7,11,270.38		96,37,241.18	38,27,279.81	43,19,114.92
	Sub Total (E)		13245085.72	219435.27	13464520.99	8925970.80	711270.38	0.00	9637241.18	3827279.81	4319114.92
F	Vehicles	8	34530863.95		34530863.95	3,10,87,510.52	6,44,858.65		3,17,32,369.17	27,98,494.78	34,43,353.43
	Sub Total (F)		34530863.95	0.00	34530863.95	31087510.52	644858.65	0.00	31732369.17	2798494.78	3443353.43
G	Computers (Addition)	3	65563195.43	2780020.00	68343215.43	28980808.93	19247118.97		4,82,27,927.90	2,01,15,287.53	3,65,82,386.50
	Sub Total (G)		65563195.43	2780020.00	68343215.43	28980808.93	19247118.97	0.00	48227927.90	20115287.53	36582386.50
	Grand Total		6160247617.00	200956552.63	6361204169.63	2897087830.19	165804231.73	0.00	3062892061.92	3298312107.71	3263159786.81
	Less- Amortisation of Consumers Contribution on Fixed Assets						4,47,47,990.00				
	Depreciation charged to operation						12,10,56,241.73				
	Previous year		5,83,27,13,825.36	32,75,33,791.63	6,16,02,47,616.99	2,61,72,97,218.78	17,76,30,212.36	0.00	2,79,49,27,431.14	3,26,31,59,786.81	

(Signature)

(Signature)

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 13 - CAPITAL WORK IN PROGRESS

Particulars	Balance as on 01st April 2014	Additions during the year	Capitalized during the year	Balance as on 31st March 2015
	₹	₹	₹	₹
Capital Work in Progress	24,55,14,171.59	22,72,94,369.05	20,09,56,552.63	27,18,51,988.01
Total	24,55,14,171.59	22,72,94,369.05	20,09,56,552.63	27,18,51,988.01
Previous Year	44,08,62,787.76	13,53,82,778.46	32,75,33,791.63	24,87,11,774.59

NOTE 14 - LONG TERM LOANS & ADVANCES

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
(i) Capital Advances		
<u>Unsecured considered good</u>		
(a) Advance to fabricators	35,67,88,878.86	35,15,33,817.71
<u>Unsecured Considered doubtful</u>		
(b) Advance to Supplier & Contractor		
Less : Provision for doubtful Loans & Advances	0.00	0.00
Total	35,67,88,878.86	35,15,33,817.71

NOTE 15 - INVENTORIES

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Stores & Spares (As valued at cost & certified by the management)	28,68,40,634.01	30,28,55,923.75
Total	28,68,40,634.01	30,28,55,923.75

NOTE 16 - TRADE RECEIVABLES

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
<u>Unsecured, considered good</u>		
Trade receivables outstanding for a period exceeding six months	36,17,62,66,271.12	0.00
Less: Provision for doubtful trade receivables	6,01,71,12,504.08	12,31,04,37,842.11
Unrealised Late Payment Surcharge	12,01,82,96,002.74	18,03,54,08,506.82
	18,14,08,57,764.30	12,31,04,37,842.11
Other Trade receivables		4,46,43,43,892.98
	-	4,46,43,43,892.98
Total	18,14,08,57,764.30	16,77,47,81,735.09

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 17 - CASH & CASH EQUIVALENTS

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹	₹
Cash & Cash Equivalents		
(i) Cash in hand	63,60,00,780.88	4,73,77,238.24
(ii) Cheques, draft on hand	-	24,75,69,301.87
(iii) Balance with banks		
In current accounts	21,74,74,302.84	89,20,60,466.03
Other bank balances		
In deposit account	71,24,26,428.00	1,49,89,434.00
Total	1,56,59,01,511.72	1,20,19,96,440.14

NOTE 18 - SHORT TERM LOANS & ADVANCES

Particulars	As at 31st March, 2015		As at 31st March, 2014	
	₹		₹	
Unsecured, considered good				
(i) Loans and advances to UPPCL (Holding Company)			-	-
(ii) Loans and advances to employees				
(a) Unsecured Considered Good	2014-15	2013-14	7,21,202.00	19,24,628.00
(b) Unsecured considered Doubtful	36,02,762.72	36,02,762.72		
Less: Provision for doubtful loans and advances	36,02,762.72	36,02,762.72	0.00	0.00
			7,21,202.00	19,24,628.00
(iii) Loans & Advances to Distribution Companies				
UPPTCL			10,03,75,557.00	9,98,15,947.00
UPRVUNL			23,200.00	23,200.00
DVVNL			9,70,96,235.00	8,99,72,813.00
			19,74,94,992.00	18,98,11,960.00
(iv) Advances Recoverable in Cash or in Kind for value to be received				
(a) Unsecured Considered Good	2014-15	2013-14	10,26,65,427.11	9,18,50,958.39
(b) Unsecured considered Doubtful	11,50,88,000.21	11,50,88,000.21		
Less: Provision for doubtful loans and advances	11,50,88,000.21	11,50,88,000.21		0.00
			10,26,65,427.11	9,18,50,958.39
Total			30,08,81,621.11	28,35,87,546.39

NOTE 19 - Other Current Assets

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
(i) Prepaid expenses	19495.00	20255.00
(ii) Balances with government authorities	32,97,15,024.91	47,10,24,182.91
Total	32,97,34,519.91	47,10,44,437.91

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 20 - REVENUE FROM OPERATIONS

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
(a) Sale of Power (Refer Note (i) below)	16,78,92,96,748.38	15,34,11,88,250.93
(b) Other operating revenues (Refer Note (ii) below)	10,31,43,860.27	11,12,35,475.16
Total	16,89,24,40,608.65	15,45,24,23,726.09

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
Note: (i) Sale of Power comprises :		
Domestic	5,64,11,97,723.31	4,99,19,95,602.17
Commercial	2,00,64,62,525.38	2,18,27,98,990.33
Industrial	8,36,98,23,033.97	8,39,12,31,560.07
Public lighting	33,12,84,462.00	33,74,54,160.00
Public water works	44,05,29,003.72	42,01,89,751.96
Gross Sale of Power	16,78,92,96,748.38	16,32,36,70,064.53
Less : Electricity duty		98,24,81,813.60
Net Sale of Power	16,78,92,96,748.38	15,34,11,88,250.93
Note: (ii) Other operating revenues:		
Delayed Payment charges from consumers	10,31,43,860.27	11,12,35,475.16
Other operating revenues	10,31,43,860.27	11,12,35,475.16

NOTE 21 - OTHER INCOME

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
(i) Interest income (Refer Note (i) below)	4,18,76,939.00	2,10,17,804.00
(ii) Other non-operating income (Refer Note (ii) below)	2,41,60,52,971.42	46,30,38,950.02
Total	2,45,79,29,910.42	48,40,56,754.02

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

Note: (i) Interest income comprises:		
Interest from banks on Fixed Deposit	4,18,76,939.00	2,10,17,804.00
Total - Interest income	4,18,76,939.00	2,10,17,804.00
Note: (ii) Other non-operating Income comprises:		
Sale of Scrap	1,47,26,922.00	3,35,46,550.12
Penalty from Contractors	79,22,631.18	1,03,39,031.00
Rebate for Timely Payment of Interest	10,75,315.00	22,15,416.00
Rental from Staff	10,23,781.00	12,75,053.50
Sales of Tender Forms	11,39,824.00	9,82,123.00
Other Recoveries From Consumers	87,59,935.00	9,79,220.00
Other Misc. Income	52,08,107.19	23,96,244.35
Subsidy From U.P.Govt for operation loss	2,36,05,61,000.00	45,55,73,295.00
Prior period income (net of Expenses) (Refer Note Below)	1,56,35,456.05	-4,42,67,982.95
Total - Other non-operating Income	2,41,60,52,971.42	46,30,38,950.02
Note: Details of Prior period items		
A) Expenses		
Trade tax on works 2008-09 to 2011-12	0.00	0.00
Prior period interest on FDR (APORP)	455569253.00	3239335.00
Salray		10549322.00
KESCO Head Office Expenses	-12306349.60	0.00
Dearness Allowance		0.00
Trust Expenses		0.00
Depreciation		0.00
Consumption of Material		0.00
Expense excess booked		0.00
Operating Expenses	-451132315.45	2202618.00
Reversal of Electricity Charges of Discom	-7766044.00	22178764.20
Bonus		0.00
Interest expenses on Bank Loan	0.00	6097943.75
	-15635456.05	44267982.95
B) Income		
Reversal of Bank Charges		0.00
Transmission Charges		0.00
Depreciation		0.00
Excess Staff Provision written back		0.00
	0.00	0.00
Total (A-B)	-1,56,35,456.05	4,42,67,982.95

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Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 22 : PURCHASE OF POWER

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
Purchase Cost	15,99,65,75,869.10	17,38,14,28,341.00
Total	15,99,65,75,869.10	17,38,14,28,341.00

NOTE 23 : EMPLOYEE BENEFIT EXPENSES

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
Salaries & Wages	83,64,78,970.34	87,86,22,245.32
Contributions to provident and other funds	14,27,64,898.00	14,56,15,355.00
Staff welfare expenses	1,49,21,470.38	1,15,60,097.00
Less : Expenses Capitalised	-1,41,16,365.00	-1,06,79,760.00
Total	98,00,48,973.72	1,02,51,17,937.32

NOTE 24 : FINANCE COST

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
(i) Interest expense on Borrowings	2,64,99,59,333.03	2,94,34,39,483.89
(ii) Other borrowing cost	43,90,875.68	7,237.00
(iii) Interest Expenses on Security deposits from consumers	9,16,70,452.00	8,09,86,486.20
Total	2,74,60,20,660.71	3,02,44,33,207.09



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 25 : OTHER EXPENSES

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
Interest Expense on Electricity duty	29,15,31,600.00	30,89,46,038.56
Repairs & Maintenance - Building	5,95,80,758.09	7,13,46,611.26
Repairs & Maintenance - Machinery	17,84,91,346.92	22,16,07,061.08
Repairs & Maintenance - Line, Cables, Networks etc.	27,19,29,623.02	16,75,54,237.11
Repairs & Maintenance - Others	17,77,489.75	11,18,199.25
Lease Rent on leasehold land to UPPCL (Holding Company)	5,873.70	12.00
Rates & Taxes	3,87,43,521.00	1,55,48,450.00
Insurance	26,173.00	5,17,563.00
Communication	40,59,214.00	38,30,308.25
Travelling & Conveyance	8,18,862.22	8,12,711.94
Legal & Professional charges	1,86,94,909.70	2,14,58,064.00
On line & Spot Billing charges	4,19,43,472.00	4,42,59,944.00
Printing & Stationery	39,75,258.44	46,58,395.50
Advertisement Expenses	60,43,980.00	46,73,199.00
Fee & Subscription	76,24,790.00	72,55,191.00
Provision for doubtful trade Receivables	-	-
Provision for Bad & doubtful debts provided	-	11,20,61,325.00
Security Charges	8,62,72,155.00	7,04,77,010.00
Provision for doubtful loans & advances	0.00	17,23,753.79
Payments to auditors (Refer Note (i) below)	-	2,24,720.00
Miscellaneous expenses	1,23,65,411.50	99,29,387.86
Less : Expenses capitalised	-2,70,359.34	-1,70,903.00
Total	1,02,36,14,079.00	1,06,78,31,279.60

Notes:

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
(i) Payments to the auditors comprises :		
As Auditors - For Statutory Audit	-	2,24,720.00
Total	-	2,24,720.00

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

DISCLOSURES UNDER ACCOUNTING STANDARDS

NOTE 26 : CONTINGENT LIABILITIES AND COMMITMENTS

(i) CONTINGENT LIABILITIES

Contingent liabilities not provided for in respect of:

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹ in lacs	₹ in lacs
(i) Claims against the Company not acknowledged as debts	904.05	-
(ii) Interest charges payable to State Government in respect of conversion of leasehold land into freehold land (matter referred for waiver to the State Government)	2,447.35	-
(iii) Appeal pending before Income Tax Appellate Tribunal	-	-

(ii) COMMITMENTS

Estimated amount of contracts remaining to be executed on Capital Account and not provided for:

Particulars	As at 31st March, 2015	As at 31st March, 2014
	₹ in lacs	₹ in lacs

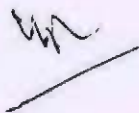
NOTE 27 : BACKGROUND

(i) The Company was incorporated under the Companies Act, 1956 on 21.07.1999 and took over the Assets and Liabilities of KESA Zone of UPPCL w.e.f 15.01.2000 (hereinafter referred to as the "appointed date") in terms of the U P Government notification no. 186 /XXIV-1-2000 dated 15.01.2000. Accordingly, the accounts of the company also comply with the various provisions of the Transfer of KESA Zone Electricity Distribution Scheme 2000 (hereinafter referred to as the "transfer scheme").

(ii) The Fixed Assets (of the erstwhile KESA Zone) were taken over by the Company (i.e. KESCo) from UPPCL on 15.01.2000 as per the transfer scheme at a gross value of ₹ 260.00 crores (with nil accumulated depreciation). The details of the individual block of assets have been considered at the values as approved by the Board of Directors.

NOTE 28 : SEGMENT REPORTING (AS 17)

Since the Company is engaged in retail distribution of electricity in the city of Kanpur and its adjoining areas, there are no other reportable segments in terms of Accounting Standard (AS)-17: Segment Reporting as notified under the Companies (Accounting Standards) Rules, 2006 pursuant to Section 211 (3C).



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 29 : RELATED PARTY TRANSACTIONS (AS -18)

Details of related parties:

Description of relationship	Names of related parties
Key Management Personnel (KMP) - M.D.	Sri S.N. Bajpai w.e.f. 01.04.2014 to 14.07.2014 M.D. Smt. Roshan Jacob w.e.f. 15.07.2014 to 09.12.2014. M.D. Smt. Selva Kumari J. w.e.f. 10.12.2014 to end of financial year. Director Sri S.N. Bajpai, Director (T) w.e.f. 01.04.2014 to 14.07.2014
Sri S.N. Bajpai, M.D., Kesco did not draw salary as M.D. as he had additional charge of M.D., Kesco being Director (T) Kesco. Smt. Roshan Jacob, M.D., Kesco did not draw salary as M.D. Kesco because she had additoinal charge of M.D., Kesco and drawn salary from D.M. office as D.M., Kanpur Nagar. Smt. Selva Kumari J., M.D., Kesco drawn salary as M.D. from Kesco w.e.f. 10.12.2014 to 31.03.2015 amounting Rs. 205089.00 Sri S.N. Bajpai Director (T) Kesco drawn salary from Kesco amounting to Rs. 356994.00	
Details of related party transactions during the year ended 31st March, 2014 :	
Particulars	KMP
<u>Transactions during the year</u>	
Directors Salary: Sri SN Bajpai Director (T) Kesco for the year 2013-14	9.37 lac
Total	9.37 lac

(i) Figures in bracket relates to the previous year

(ii) In terms of the exemption as per para 8 of Accounting Standards (AS)-18 Related Party Disclosures as notified under the Companies (Accounting Standards) Rules, 2006 pursuant to Section 211 (3C), no disclosure has been made in the financial statements as regards related party relationships with other state-controlled enterprises and transactions with such enterprises.

NOTE 30 :

The Company has no employees whose salary exceeds the limits prescribed under Section 217(2A) of the Companies Act, 1956

NOTE 31 : LEASEHOLD LAND

(i) The Company has not ascertained the value of the leasehold land received from UPPCL as per the transfer scheme at a lease of ₹ 1.00 per month and holds the same at a nominal value of ₹ 1.00 in the books of account.

(ii) The lease of Plot no.'s 4 and 54 of erstwhile KESA expired on 4.12.1994 and 31.07.1994 respectively and was not renewed by the Government of U.P. vide G.O. dated 03-10-1994. The Company had accordingly deposited a sum of ₹ 7,43,86,785.00 with the State Government towards conversion of the plots into freehold in earlier years

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 32 : RECONCILIATION OF INTER UNIT & OTHER BALANCES

The following balances are subject to confirmation and/or reconciliation as at the year end. Impact, if any, on the assets/liabilities and/or income/expenditure consequent to such reconciliation is presently not ascertainable.

(a) Inter units balances

(b) Balances of Trade Receivables, Advances to Suppliers/ Contractors, Trade payables, balance with UP State Power Sector Employees Trust, Loans and Advances, Security Deposits, Various balances with State Government and balance with UPPCL & other distribution Companies.

NOTE 33 : INTEREST ON SECURITY DEPOSIT FROM CONSUMERS

Interest on Security deposit from consumers has been provided at the bank rate notified by the RBI as prevalent on 1st April of applicable financial year 2014-15 i.e. : 9.00% p.a and as per para 4.20 (i) of the Electricity Supply Code, 2005, (third amendment). The provision has been made on the monthly opening cumulative ledger balances (net) instead of providing for the same in respect of individual consumer balances. Under/ excess provision, if any, and the impact of the same on the reported loss of the Company for the year on account of the aforesaid estimation is not ascertainable.

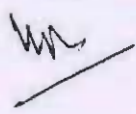
NOTE 34 :

The Govt. of U.P. had vide its order no. 3188 dated 24.10.2003 and 1077 dated 17.04.2008 decided that the electricity duty and interest payable for the period from 15.01.2000 to 31.03.2003 and 01.04.2003 to 31.03.2008 respectively would be adjusted against the balance subsidy payable to UPPCL by the State Government. Accordingly, the amount of electricity duty and interest thereon payable due to pending adjustment by the state government has been shown under the Note 10 : Other Current Liabilities (Due to State Government)

NOTE 35 : POWER PURCHASE FROM UPPCL

(i) Power Purchase from UPPCL has been accounted for at the rates approved by UPPCL for the financial year 2014-15 in term of O.M. No. 3116/EIESPC dt. 17.10.2015 for 2014-15. at the rate ₹ 4.38847860 per unit. Further rate of ₹ 0.194 per unit is also payable on account of the transmission charges, for the use of intra state transmission network as approved by UPERC for the year 2014-15.

(ii) The joint meter reading for purchase of power from UPPCL is taken at ten sub stations (supply points from UPPCL) on the first day of each month at 08:00 AM by the Executive Engineer (Transmission) UPPCL and Executive Engineer (Test) KESCO. In the absence of the reading being taken at 12 midnight on the 31st of March 2015, the impact of such a method on the reported loss for the year on account of the amount of power purchase being incorrect, in the opinion of the management, would not be material.



Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 36 :

Pending final adjustment/reconciliation of the differences between the balances of KESCo and KESA as on the date of transfer, the net credit balance as on date of ₹ 14.46 crores (Previous year ₹ 14.46 crores) has been disclosed under **Other long term Liabilities (Note 7)**. Impact, if any, of the same on the assets/liabilities and/or income/expenditure subsequent to such reconciliation is presently not ascertainable

NOTE 37 - EARNING PER SHARE (AS-20)

Particulars	For the year ended 31st March, 2015	For the year ended 31st March, 2014
	₹	₹
Net profit for the year attributable to the equity shareholders	-1,51,69,45,305.20	-6,73,99,60,497.26
Weighted average number of Equity Shares	16,31,47,400	16,31,47,400
Par value per share	10.00	10.00
Earnings per share - Basic	-9.30	-41.31

NOTE 38 : IMPAIRMENT OF ASSETS (AS 28)

In the opinion of management, there is no specific indication of impairment of any assets as on the Balance Sheet date as envisaged by Accounting Standard-28: Impairment of Assets as notified under the Companies (Accounting Standard) Rules, 2006 pursuant to Section 211(3C) of the Companies Act, 1956. Further, the assets of the company have been accounted for at their historical cost and most of the assets are very old and their carrying amount does not exceed the recoverable amount.

NOTE 39 : MICRO AND SMALL ENTERPRISES

The Company has not received any memorandum (as required to be filed by the suppliers with the notified authority under the Micro, Small and Medium Enterprises Development Act, 2006) claiming their status as micro, small or medium enterprises. Consequently, the information with regard to the amount unpaid as at the year end to such enterprises together with the interest paid/payable to such parties is not being disclosed.

NOTE 40 : SHARE APPLICATION MONEY

Share application money amounting to Rs 3778224917.88 existing as on 31.03.2015, and pending for allotment.

NOTE 41 :

Income Tax Assessments have been completed upto Financial Year 2011-12. No Provision of income tax has been made as the company is incurring continuous losses. Deferred Tax Assets/liability have not been recognised in absence of reasonable certainty that sufficient future taxable income will be available to set off the unabosrbed losses and unsorbed depreciation.

Kanpur Electricity Supply Company Limited

Notes forming part of the financial statements for the year ended 31st March, 2015

NOTE 42 :

Quantitative details for Electricity units purchased and sold: (in MU)

Particulars	2014-15	2013-14
Total Power Purchased	3,490.813	3,554.392
Total Power Sold	2581.746	2458.092
Distribution Loss	909.067	1,096.300
% Distribution loss	26.04%	30.84%

In the opinion of the management, the identified reasons of line losses during the financial year 2014-15 (2013-14) are :

- Unauthorized use of electricity and illegal connections.
- Overloading of Transformers.
- Supply of electricity being maintained through 11/6.6 KV feeders which are very old and require upgradation.

Corrective measures are being taken to decrease the line losses.

NOTE 43 :

Previous year figures have been regrouped or reclassified to the extent possible wherever considered necessary. The accompanying Notes are an integral part of the Financial Statements.

For and on behalf of the Board of Directors

(Pankaj Saxena)

Dy. C.A.O

(Selva Kumari J.)

Managing Director

Dated:

Place: Kanpur

**ANNUAL REVENUE REQUIREMENT PETITION
FOR FY 2016-17**

ANNEXURE - 4

Capital Investment Plan for FY 2016-17



**KANPUR ELECTRICITY SUPPLY COMPANY LIMITED
KANPUR**

**INTREGATED POWER DEVELOPMENT
SCHEME (IPDS)**

State

Uttar Pradesh

Name of Utility

Kanpur Electricity Supply Company Limited.

Project Area Name/Town Name

Kanpur

Detail Project Report (Revised)

Submitted to

POWER FINANCE CORPORATION LTD.

DPR No./Version

Date of Submission

April 8, 2015

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INPUT DATA FOR DETAILED PROJECT REPORT (DPR)

UTILITY DETAILS

Name of State	Uttar Pradesh
Name of Utility (Expanded Name)	Kanpur Electricity Supply Company Limited
Name of Utility (Short Name)	KESCO Ltd.
Date of Incorporation	14/01/2000
Total Number of Utility Consumers	514729
Contact Details (Utility Nodal Officer)	Er. S.B. Verma
Designation	Nodal Office (PDS) SE(HQ)
Address	KESA House, 14/71, Civil Lines, P.O. Box- 141, Kanpur-208001
Phone Office 1	(0512)-2530010
Mobile No.	9839109112
Fax	(0512)-2530832
E-mail	kescosehq@gmail.com

TOWN DETAILS

Name of Project Area/Town	Kanpur
District	Kanpur, U.P.
Total Number of Consumers	No. 514729
Total Population (as per 2001 census)	No. 4572951
Total Area of Coverage	Sq Km 500
Point of Contact (Town Incharge)	Er. S.B. Verma
Designation	SE(HQ)
Address	KESA House, 14/71, Civil Lines, P.O. Box- 141, Kanpur-208001
Phone Office 1	(0512)-2530010
Mobile No.	9839109112
Fax	(0512)-2530832
E-mail	kescosehq@gmail.com
Likely Date for Establishment of Baseline Data (Clause 15 of Guideline Part-B)	NA

Data for AT&C Losses Computation for Project Area (Available data for Previous FY Before Project Sanction)

	Unit	Data for FY 2013-14
	FY	2013-14
Energy Input	M Units	3554.39
Energy Sales	M Units	2458.09
Total Revenue Billed	Rs. Cr.	1632.36
Total Revenue Collected (including arrears)	Rs. Cr.	1555.33
Arrears {Actual or Total Revenue billed-Revenue collected}	Rs. Lac	77.03
Average Tariff (for Project Area)	Rs./Unit	6.64
Billing Efficiency	%	69.16%
Collection Efficiency	%	95.28%
AT&C Losses {Assessed for Base Year-0}	%	34.11%

Loss Reduction Trajectory	Unit	Projection
Year-1	%	26.64%
Year-2	%	20.72%
Year-3	%	14.50%
Year-4	%	14.50%
Year-5	%	14.50%

Guidelines for DPR Preparation & Implementation

The DPR shall be prepared, base on IPDS guidelines as issued from MoP, Gol. Some salient features of IPDS guidelines & additional guidelines for DPR preparation is mentioned below. In case of any mis-match between IPDS guideline issued from MoP & DPR guideline as mentioned below, the IPDS guideline as issued from MoP, Gol shall prevail.

1	DPR is to be prepared based on the broad scope of work validated by Nodal agency at 1st Stage during discussion with utility on NAD, on detailed field survey and latest approved schedule of rates for various items of work. The DPRs shall be duly recommended by the Distribution Reforms Committee (DRC) at the State level. The Nodal Agency will separately provide comparable costs sourced from CPSUs for major equipment for reference of the utility. These reference rates shall be used as ceiling rates for sanctioning of the projects
2	The DPR under the scheme has been formulated for urban areas (Statutory Towns) only
3	In case of private sector Discoms where the distribution of power supply in urban areas is with them, projects under the scheme will be implemented through a concerned State Government Agency and the assets to be created under the scheme will be owned by the State Government / State owned companies. The areas under franchisee shall be covered under the scheme subject to compliance with the terms & conditions of their respective agreements and Cooperative Societies shall also be eligible, but they would be required to submit Audited statements annually regarding the utilization under the approved project through State Cooperative Department and the concerned Discom. Further, all the projects need to be recommended by the State Level DRC.
4	In case of private sector Discoms/Distribution Franchisee/Co-operative Societies, the DPR shall be submitted to PFC by its State Govt Agency.
5	The circle/zone/Utility wise DPRs shall be prepared by the utility and recommended by Distribution Reforms Committee (DRC) at State level. To avoid duplication of works with scope already sanctioned under RAPDRP scheme, Utility shall indicate the additional work component proposed under IPDS DPRs with comparative BOQ for such R-APDRP project area.
6	BoQ for R-APDRP towns in the project area to be filled in Sheet Vol II.b and BoQ for non-RAPDRP towns to be filled in sheet Vol II.c.
7	For ERP & IT component a separate consolidated DPR shall be prepared by respective state.
8	For linking of all 33 KV or 66 KV grid substations/billing offices/Regional/Circle/Zonal offices of Discoms with optic fiber network of NOFNA, a separate and consolidated DPR shall be prepared by the respective utility in consultation with BBNL or any designated agency like BSNL, RailTel, PGCIL etc.
9	The projects shall be implemented on turn-key basis. However, in exceptional circumstances, execution on partial turnkey/departmental basis (to be proposed by utility along with respective DPR duly recommended by DRC) shall be permitted with the approval of the Monitoring Committee.
10	In either mode of implementation (turnkey/partial turnkey/departmental), the maximum time limit for completion of the project viz award and implementation shall not be beyond thirty months from date of communication of the approval of the Monitoring committee.
11	An appropriate Project Management Agency (PMA) will be appointed preferably utility-wise to assist them in project management ensuring timely implementation of the project.
12	The work(s) already executed/to be executed under R-APDRP/NEF/GOI other scheme, etc is/are not eligible under IPDS.
13	The works proposed in the DPR shall aim for meeting utility level AT&C loss reduction trajectory as finalised by MoP in consultation of state utilities (The committed AT&C loss reduction trajectory is given in Annexure-I)
14	Utility to ensure installation of bounadry meters for ring fencing of Non-RAPDRP Towns having population more than 5000.
15	The Utility will have to certify that the DPR is in line with guidelines issued by Ministry of Power/ PFC for IPDS & DRC clearance has been obtained, before the same is forwarded to PFC for consideration of sanction.
16	Utility shall ensure timely availability of any other infrastructure or facilities that are essential for implementation of IPDS works but are not in the scope of Contractor viz. land acquisition, RoW, pole location etc.
17	Utility shall provide detailed information regarding existng infrastructure, any bottleneck in implementation of the works and the works proposed in the project to the Contractor before award of contract.
18	The cost estimates should not include any departmental overhead expenses. All such expenditures should be borne by the utility.
19	No cost escalation shall be admissible for the schemes sanctioned under IPDS. Any additional cost on any account whatsoever to complete the project shall be borne by utility.
20	Distribution Transformers procured under IPDS scheme, shall have efficiency level equivalent / better than that of three star ratings of BEE, where ever BEE standard is applicable. For other DTs, where BEE standard is not applicable, CEA guidelines shall be followed (available on CEA web site).
21	AMI, Smart meters can be considered for deployment in the towns where SCADA has been/being established under R-APDRP.

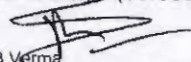
22	For Solar Panels - only cost of Solar panels with support structure and Net-meters shall be permissible under IPDS. Utility shall bear cost of associated items.
23	Additional Guideline for DPR preparation
a	Load growth of 05 year in case of HT system & 03 years in case of LT system to be considered for proposing the DPR.
b	For replacement of existing HT & LTCT Electromechanical consumer meters (AMR compatible, open protocol) tamper proof electronic meters and replacement of whole current electromechanical consumer meters, the guidelines of CEA shall be adopted.
c	Service line for new consumers is not eligible in the scheme. In case of installation of meter pillar box or if existing service line is prone to tamper and pilferage the same shall be replaced with armored or XLPE cable for which minimum configuration should be : (i) Single Phase consumers: min. 4 sq.mm (ii) Three Phase consumers: min. 6 sq.mm
d	Installation of new Distribution Transformers in following cases: (i) If the length of LT feeder is more than 300 mtr then new Distribution transformer may be proposed to improve HT: LT ratio. (ii) If existing peak load on DT is more than 70% of its rated capacity then new DT may be proposed. (iii) Even if the length of LT feeder is below 300 meter but the peak load on the feeder is more than 70% of rated thermal capacity of the conductor, new DT should be installed or conductor should be replaced by higher size.
e	Provision of Isolator, HT fuse / horn gap & LA at each Distribution Transformer, if not provided earlier. Alternatively this isolator, HT fuse / horn gap fuse can be replaced with drop out fuse with On Load maintenance facility thereby reducing system interruptions.
f	Provision of LT distribution box for control and protection of outgoing LT circuits.
g	Each Distribution Transformer of 25 KVA & above shall be provided with minimum two LT feeders.
h	If the peak load on existing 11KV feeder is more than 75% of rated thermal capacity of the conductor, conductor with higher capacity may be proposed or feeder bifurcation may be proposed.
i	If peak load on existing 33/11KV S/S is more than 80% of its transformer capacity, new 33/11KV S/S may be proposed.
j	11 Kv feeder segregation may be proposed for reducing boundary metering points, fixing greater accountability and responsibility etc.
k	Ring Main Unit may be proposed in case of underground cabling area only.
l	Sectionalizer may be proposed in SCADA town only.
m	The Distribution Transformer may be provided with the capacitors of following ratings at LT side: (i) 100 KVA : 12 KVR (ii) 63 KVA : 8 KVR (iii) 40 KVA : 6 KVR (iv) 25 KVA : 4 KVR
n	Installation of ABC cables in dense, theft prone & congested areas. Both HT & LT ABC may be proposed. The capacity of ABC shall be 20% more than that of bare conductor, as thermal overloading capacity of ABC is less than Bare conductor.
o	In theft prone area and to improve HT:LT ratio, HVDS may be proposed. Total capacity of HVDS shall be higher by 20% than conventional LT S/S.
p	The following works/ items shall not be eligible for coverage under IPDS scheme: (i) Works already sanctioned under other schemes of Govt. of India (like R-APDRP/RGGVY/DDUGJY/NEF etc.). The projects for which any other grant / subsidy from Government of India has already been received / proposed to be received shall not be eligible under this scheme. (ii) AMI in the towns where SCADA is not planned under R-APDRP (iii) Civil works other than sub station (iv) Service lines to new consumers (v) GIS survey of consumers (vi) Cost of land for sub-stations (vii) Compensation towards right of way (viii) Distribution automation (ix) Office equipment / fixtures (x) Spares (other than mandatory spares prescribed by manufacturer) (xi) Tools and Plants (T&P) (xii) Vehicles (xiii) Salaries and Establishment Expenditure

Declaration

This is to certify that:

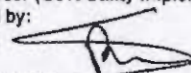
- 1 Items Proposed in the DPR is for implementation in urban area (Statutory Towns only).
- 2 DPR has been prepared in line with the guidelines of IPDS issued by Ministry of Power / PFC.
- 3 The proposed DPR includes only new works & excludes other works under implementation. Works taken up under GOI scheme viz RAPDRP/RGGVY/ NEF, etc is/are not included in this DPR.
- 4 Additional items proposed in R-APDRP towns has been proposed in separate sheet Vol II.b, clearly defining earlier sanction in R-APDRP, proposed new requirement in IPDS with proper justification.
- 5 All works proposed in the DPR are as per DPR Formats issued by Nodal Agency. Any cost other than allowed by Monitoring Committee in the DPR formats shall be borne by the Utility.
- 6 The cost estimates does not include any departmental overhead expenses. All such expenditures would be borne by the utility.
- 7 Utility will henceforth, procure all maters (wherever applicable) as per guidelines/regulations issued by MoP/CEA (circular available on IPDS web portal).
- 8 Utility shall ensure timely availability of any other infrastructure or facilities that are essential for implementation of IPDS works but are not in the scope of Contractor viz. land acquisition, Row, pole location etc.
- 9 Following items have been excluded from the scope of the DPR:
 - (i) Works already sanctioned under other schemes of Govt. of India (like R-APDRP/RGGVY/DDUGJY/NEF etc.). The projects for which any other grant / subsidy from Government of India has already been received / proposed to be received shall not be eligible under this scheme.
 - (ii) AMI in the towns where SCADA is not planned under R-APDRP
 - (iii) Civil works other than sub station
 - (iv) Service lines to new consumers
 - (v) GIS survey of consumers
 - (vi) Cost of land for sub-stations
 - (vii) Compensation towards right of way
 - (viii) Distribution automation
 - (ix) Office equipment / fixtures
 - (x) Spares (other than mandatory spares prescribed by manufacturer)
 - (xi) Tools and Plants (T&P)
 - (xii) Vehicles
 - (xiii) Salaries and Establishment Expenditure
- 10 A senior level officer has been appointed by the Utility as Nodal Officer, who shall be involved from concept to commissioning of the system and co-ordinate from the Utility side for all issues related to implementation of the project. The details of Nodal Officer are given in Input Sheet.
- 11 Utility has created a dedicated team for implementation of projects at field & HQ levels to ensure smooth implementation of scheme. Details of the team are given in Input sheet.
- 12 Utility will appoint a Project Management Agency (PMA) for monitoring & ensuring timely implementation of the scheme.
- 13 Cost of consumer meters installed under R-APDRP will not be charged to consumers.
- 14 Work shall be awarded within 06 months from date of communication of the approval of the Monitoring committee. & will be completed within 24 months from date of award. In case of departmental execution, the work will be completed within 30 months from date of communication of the approval of the Monitoring committee. In either mode of implementation (turnkey/partial turnkey/departmental), the maximum time limit for completion of the project viz award and implementation shall not be beyond thirty months from date of communication of the approval of the Monitoring committee.
- 15 The item rates taken for the materials for preparation of the DPR is based on the approved latest Schedule of Rates. For the materials for which the rates are not available in Schedule of Rates, market Rates (duly approved as per Utility system/procedure) or approved schedule rate of works / stock issue rate of other utility (indicated in the cost estimate) has been taken for this purpose. The Nodal Agency will separately provide comparable costs sourced from CPSUs for major equipment for reference of the utility. These reference rates shall be used as ceiling rates for sanctioning of the projects.
- 16 No cost escalation shall be admissible for the schemes sanctioned under IPDS. Any additional cost on any account whatsoever to complete the project shall be borne by utility.
- 17 10% of the project cost as approved by monitoring committee will be arranged by utility from own source & 30% will be arranged from PFC/REC or other Fis within three months of award/start of project.
- 18 Metering of all feeders and distribution transformers including metering at all input points to the utility shall be ensured under this scheme. Utility shall ensure installation of boundary meters for ring fencing of Non-RAPDRP Towns having population more than 5000.
- 19 Projects sanctioned under R-APDRP scheme in the state/utility will continue to be implemented as per R-APDRP guidelines.
- 20 DPR has been prepared after detailed field survey, study of sytem & with full justification. No revision of DPR OR cost escalation will be proposed by Utility.
- 21 While formulating this DPR, consultation with the respective public representatives including Member of Parliament has been ensured.
- 22 The information and data given in this DPR are correct.
- 23 The DPR is technically & financially viable and tangible & intangible benefits will be achieved from implementation of this DPR making it bankable.
- 24 In case of private sector Discoms/Distribution Franchisee/Co-operative Societies, the project shall be implemented by (State Govt Agency).

Project Area In-charge (Govt/Govt Authorised Agency)

Signature: 
 Name: S.B.Verma
 Designation: Superintending Engineer

Tel. No. / Mobile No. : 9839109112
 Email address : kescosehq@gmail.com

Nodal Officer (Govt Utility Implementing Project)

Approved by:
 Signature: 
 Name: S.B.Verma
 Designation: Superintending Engineer

Tel. No. / Mobile No. : 9839109112
 Email address : kescosehq@gmail.com

Executive Summary

Project objective:-

System Improvement, Strengthening and Augmentation for bringing down AT & C Losses upto 15% and improve consumer supply of Kanpur Town under IPDS scheme

Quadripartite Agreement Date

NA

Brief Profile of State/Utility

Name of State	Uttar Pradesh
Name of Utility (Short Name)	KESCO, Ltd.
Date of Incorporation	14/01/2000
Total Number of Utility Consumers	5147729

Previous Financial Year

Billing Efficiency	%	69.16%
Collection Efficiency	%	95.28%
AT&C Losses	%	34.11%

Project Area Profile

Status of Pre-Conditions

Approval of Distribution Reforms Committee	Yes/No	No
Constitution of SERC	Yes/No	Yes
Completion/Short closure of X Plan	Yes/No	Yes
Schedule Date of completion of Ring Fencing	Date	NA

Project Funding

Recommended Project Cost for Sanction	Rs. Cr	460.68
---------------------------------------	--------	--------

Cost Item		Total Cost	Govt 60%	RFC/ Fis 30%	Utility 10%
Total Setup Cost	Rs. Cr	460.68	276.40	138.20	46.08

		Base Year-0	Year-1	Year-2	Year-3	Year-4	Year-5
Phasing of Capital Expenditure	Rs. Cr	184.27	184.27	92.14			

Project Benefits

Financial Benefits

		Base Year-0	Year-1	Year-2	Year-3	Year-4	Year-5
			14-15	15-16	16-17	17-18	18-19
AT&C Losses	%	34.11%	26.64%	20.72%	14.50%	14.50%	14.50%

Base year 2013-14

General Detail

2.1 General Utility Details

2.1.1 Basic Information

Particular	Details
State	Uttar Pradesh
Name of Utility (Expanded Name)	Kanpur Electricity Supply Company
Name of Utility (Short Name)	KESCO. Ltd.
Date of Incorporation	14/01/2000
Contact Details (Utility Nodal Officer)	Er. S.B. Verma
Designation	Nodal Office(IPDS) SE(HQ)
Address	KESA House, 14/71, Civil Lines, P.O
Phone Office 1	(0512)-2530010
Mobile No.	9839109112
Fax	(0512)-2530832
E-mail	kescosehq@gmail.com
Other Information	
Total Number of consumers	514729

2.1.2 Financial/ Commercial Information

Particulars		Previous FY-1	Previous FY-2	Previous FY-
		2013-14	2012-13	2011-12
Peak Demand (Met)	MW	595	594	558
Peak Demand (Unrestricted)	MW	640	630	610
Energy Input	MU	3554.39	3140.07	3088.95
Metered Energy Sales	MU	2458.09	2153.76	2070.72
Assessed Energy	MU	0.00	0	0.00
Total Energy Billed	MU	2458.09	2153.76	2070.72
Revenue Billed	Rs. lac	1632.36	1145.72	1016.76
Revenue collected	Rs. lac	1555.33	1106.26	966.68
Billing Efficiency	%	69.16%	68.59%	67.04%
Collection Efficiency	%	95.28%	96.56%	95.07%
AT&C Losses	%	34.11%	33.77%	36.27%

Background

1.1 Distribution is the most critical segment of the electricity business chain. The real challenge in the power sector today lies in efficient management of the distribution sector. Availability of a robust sub-transmission and distribution network along with adequate metering arrangements is the need of the day for efficient management of the distribution system.

1.2 Electricity is the key ingredient for accelerated economic growth and is considered vital for nation's overall development. Providing reliable and quality power supply in an efficient manner is an immediate requirement of the day. Amongst the three major layers of Power Sector i.e. Generation, Transmission and Distribution, the Distribution Sector has direct interface with the end consumers and is largely accountable for consumer satisfaction and also for flow of revenues in the entire value chain of Power Sector. Thus, Distribution Sector plays a significant role in sustenance as well as growth of the Power Sector.

1.3 There is a consistent increase in electricity demand, particularly in urban areas, due to increase in customer base, changes in lifestyle and consumption pattern, which requires continual up-gradation and creation of infrastructure for electricity distribution. However, the poor financial health of the distribution utilities has resulted in inadequate investment in the distribution network.

1.4 The Government of India has been providing support to State owned Discoms/Power Departments by extending financial assistance through various programmes. However, the State owned Discoms/Power Departments have not been able to keep pace with the growth in demand of electricity, resulting in critical gaps/missing links in the sub transmission and distribution network. The sub-transmission and distribution network has therefore become a bottleneck in ensuring reliable and quality power supply to the consumers.

1.5 Apart from bridging the gaps in the requisite distribution infrastructure, there is also a need to focus on metering of consumers. End-to-end metering is a vital need of the power sector. Effective metering of all consumers will ensure proper accounting, billing, load pattern assessment and planning of infrastructure required. It also helps in identifying high loss pockets so as to initiate remedial measures towards reduction of losses.

Keeping in view the present financial condition of Discoms/Power Deptt., Govt. has launched the Integrated Power Development Scheme (IPDS) to extend financial assistance against capital expenditure to address the gaps in sub transmission & distribution network and metering in Urban areas to supplement the resources of DISCOMs/Power Deptt.

3.1 Project Area

Kanpur Electricity Supply Company Ltd. has decided to include this town for funding under IPDS. The DPR has been prepared for System Improvement, Strengthening and Augmentation for bringing down AT&C Losses upto 15% and improve consumer supply of Kanpur Town under IPDS scheme. The details of the Project

3.1.1 Basic Information

Particular	Unit	Details
Name of the Project Area		Kanpur
District		Kanpur, U.P.
Nearest Railway Station		Kanpur
Nearest Functional Airport		Amausi, Lucknow
Total Number of Consumers	No.	514729
Total Population (as per 2001 census)	No.	4572951
Total Area of Coverage	Sq Km	500
Point of Contact (Town Incharge)		Er. S.B.Verma
Designation		SE(HQ)
Address		KESA House, 14/71, Civil Lines, P.O Box- 141, Kanpur-
Phone Office 1		(0512)-2530010
Mobile No.		9839109112
Fax		(0512)-2530832
E-mail		kescosehq@gmail.com
Status of IPDS		
Loan No.		NA
Date of Sanction of DPR		0-Jan-00
Select option from drop down indicating status of the in Project Area		NA

3.1.2 Asset Information

Assets		Details submitted with the IPDS	Current Position
Total Number of EHV Sub-stations feeding the Project Area	Numbers	NA	10
Total Number of EHV Transformers	Numbers	NA	23
Total Capacity of EHV Transformers	MVA	NA	340
Total Number 33/6.6 kV and 33/11 kV Feeders	Numbers	NA	68
Total Length of 33/6.6 kV and 33/11 kV Feeders (Overhead)	kM	NA	334.198 ✓
Total Length of 33/6.6 kV and 33/11 kV Feeders (Under-ground)	kM	NA	22.102 ✓
Total Number of 33/6.6 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	NA	80
Total Number of Power Transformers	Numbers	NA	136
Total Capacity of Power Transformers	MVA	NA	736
Total Number 11 kV Feeders	Numbers	NA	363
Number of Metered 11 kV Feeders	Numbers	NA	363
Total Length of 11 kV Feeders (Overhead)	kM	NA	854.92 ✓
Total Length of 11 kV Feeders (Under-ground)	kM	NA	106.00 ✓
Total Length of LT Lines (Overhead)	kM	NA	1647.981 ✓
Total Length of LT Lines (Under-ground)	kM	NA	0 ✓
Total Number of Distribution Transformers	Numbers	NA	3919 ✓
Total Capacity of Distribution Transformers	MVA	NA	1195.922 ✓
Total Number of Energy Import Points for the Project Area	Numbers	NA	57
Total Number of Energy Export Points for the Project Area	Numbers	NA	35
Total Annual (T-J) Energy Input	MUs	NA	3089.24
Peak Demand	MW	NA	690.00
Average Demand	MW	NA	560.00
Project area already has SCADA/DMS in place (Yes/No)			NO

**Detailed asset information is the part of Annexure B

3.1.3 Commercial Information

Particulars	Unit	2013-14	2012-13	2011-12
		Previous FY-1	Previous FY-2	Previous FY-3
Peak Demand (Met)	MW	595.00	594.00	558.00
Peak Demand (Unrestricted)	MW	640.00	630.00	610.00
Energy Input	MU	3554.392	3140.07	3088.95
Metered Energy Sales	MU	2458.09	2153.76	2070.72
Assessed Energy	MU	0	0.00	0.00
Total Energy Billed	MU	2458.09	2153.762	2070.723
Revenue Billed	Rs. Cr.	1632.36	1145.72	1016.76
Revenue collected	Rs. Cr.	1555.33	1106.26	966.68
Billing Efficiency	%	69.16%	68.59%	67.04%
Collection Efficiency	%	95.28%	96.56%	95.07%
AT&C Losses	%	34.11%	33.77%	36.27%
DT Failure rate (Yearly)	%	32.83%	32.24%	27.55%

3.2 Scope of Work

3.2.1 Sub Transmission System Improvement Work

3.2.1.1 66 or 33 KV Line : New Feeder/ Feeder Bifurcation/Augumentation

-Installation of new feeder-

- (i) 30 km under ground double circuit line on 33 kV 3X400 Sq. mm XLPE cable is proposed from 132/33 kv S/S to 33/11 kV
- (ii) 75 km 33 kV overhead line on ACSR DOG Conductor is proposed from 132/33 kv S/S to 33/11 kV S/S
- (iii) 150 km 33kV overhead line on ACSR Panther Conductor is proposed from 132/33 kv S/S to 33/11 kV S/S

- Augumentation of Conductors -

- (i) 20 km under ground double circuit line on 33 KV 3x400 Sq.mm XLPE cable is proposed to replace overhead conductor
- (ii) 5 km 33 KV overhead line on ACSR Dog Conductor is proposed to replace existing conductor in poor condition.
- (iii) 100 km 33 KV overhead line on ACSR Panther Conductor is proposed to replace Dog Conductor in case of overloading.

Justification - New 33 KV line has been proposed to overcome the overloading on existing feeders and to segregate the existing tapped S/S and also to provide double source of supply to S/S. Reconductoring has been proposed to over come overloading of feeders, to replace poor conditioned .

3.2.1.2 33/11 KV SS : New/Augumentation

- Extension of Bays at EHV and for LILO at 33 kV S/S - 50 No.

- Capacity Augumentation of existing power transformers-

3 MVA to 10 MVA 1 No.

3 MVA to 5 MVA 1 No.

5 MVA to 10 MVA 20 No.

8 MVA to 10 MVA 2 No.

- Installation of additional Transformer-

10 MVA 10 No.

-Renovation & Modenisation of 33/11 KV S/S 15 No.

Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA 10 No.

Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA 5 No.

- New 33/11 KV S/S-

1x10 MVA 5 No.

2x10 MVA 16 No.

Justification:- New S/S ,capacity augmentation has been proposed to reduce overloading on existing S/S and improve reliability of power supply.

3.2.1.3 11 kV Line : New Feeder/ Feeder Bif

- Augmentation of Conductors-

11 KV line reconductoring on ACSR Dog Conductor for 60 km has been proposed to overcome the overloading on existing feeders and improve the quality of conductor.

- Feeder Bifurcation -

New underground double circuit line on 11 kV 3x300 sq.mm. XLPE cable for 100 km

New Line on ACSR Dog Conductor for 60 km has been proposed to connect DTs with existing feeder and bifurcate the feeders.

11 KV Railway crossing - 10 No.

Justification - New 11 KV line has been proposed to overcome the overloading on existing feeders and bifurcate the load on another feeder or new feeder. Reconductoring has been proposed to overcome overloading of on existing feeder and to enhance the condition of conductor.

3.2.1.4 Distribution Transformer: Capacity Augmentation/ New Transformer

- Installation of New Transformer

250 KVA - 10

400 KVA -300

Replacement of Transformers (6.6 kV to 11 kV)

250 KVA - 50

400 KVA -100

400 kVA Compact Sub Station - 2

-Capacity Enhancement from 250 KVA to 400 KVA-600

Justification:-

New Distribution Transformers and Capacity Augmentation has been proposed in order to avoid overloading of DTs which will prevent their damage and minimise DT failure rate.

3.2.1.5 LT Line : New Feeder/ Feeder Bifurcation

- Installation of new LT feeders - 80.29 km of New line on LT ABC of 3x95+1x70+1x16 sq.mm. has been proposed.

-LT line Augmentation/Reconducting-50

Justification:- New LT line has been proposed in order to accommodate New DTs

3.2.1.6 Capacitor Bank

- Installation of remote switchable breakers 3.96 MVAR, 11 kV Variable type Capacitor Bank - 50

1.98 MVAR, 11 kV Variable type Capacitor Bank -25

Justification:-

Variable type 11 kV Capacitor Banks for switching facility and fixed type LT Capacitor banks have been proposed in order to compensate reactive components in the system which will improve power factor and correspondingly voltage profile.

3.2.1.7 Aerial Bunched Cables

Conversion from Bare Conductor to ABC

3x150+1x120+1x16 (sqmm) :- 150Kms

3x95+1x70+1x16 (sqmm) :- 250 Kms

Justification:- Conversion of bare LT into LT ABC has been proposed in order to avoid theft of energy by direct hooking in theft prone area. This will also minimize commercial losses and ensure reliability of supply to consumer by minimising LT breakdowns.

3.2.2 ABC HT

LT to 11 kV HT Conversion on 3x95 sq. mm. Overhead ABC-50 Km.

Justification- To improve HT LT ratio

3.2.3 Consumer Metering

DT Meters :- 1900 Nos

Consumer Meter (1 Phase) :- 80000 Nos.

Prepaid Smart Meter(1 Phase) :- 1500 Nos.

Prepaid Smart Meter(3 Phase) :- 500 Nos.

Justification:-

To ensure 100% metering and increase billing efficiency.

3.2.4 Solar Panel

Solar Panel 1kw -20

3.2.5 Other

Exiting DT Renovation & Metering - 300 Nos.

Justification:- The above DT Renovation & Metering works will improve the monitoring of energy from each DT to the consumers of that area and help in reducing the line losses of that DT.

Project Area case study findings

The AT&C loss of the project area (Kanpur) is quite high due to high technical & commercial losses, the same shall be brought down by implementing following measures:

(Below mentioned list is of illustrative nature. This can be altered depending upon utility's requirement)

i) Reason of high technical losses & Measures proposed for improvement

S. No.	Reason	Loss location/ segment	Proposed measure	Proposed benefit in MU
1	Overloading of following 33 KV feeders- Included in 2			
2	Overloading of following Power Transformers-			
	Excess load on feeders and transformers	33/11 kv SubStations	Construction of New SubStations and Capacity Augmentation	3.248
3	Overloading of following 11 KV feeder lines-			
a	Excess load on Town feeders	Town Feeders	Load Balancing on Existing Feeders and Construction of new Feeders	16.42
4	Poor Voltage Regulation due to long 11 KV lines			
a	Long length of 11 kV Lines	Town Feeders	Load Balancing on feeders	Included in 3
5	Overloading of following Distribution			
a	Overloading of DTs	Town Feeders	Installation of new DTs	-
6	Low Power Factor at			
a	Due to low voltage profile	All existing Power T/F	Installation of 11kV, Capacitor Bank	9.85
b	Due to low voltage profile	All existing DTs	Installation of LT capacitor bank.	Nil

ii) Reason of high Commercial losses & Measures proposed for improvement

S. No.	Reason	Loss location/ segment	Proposed measure	Proposed benefit in MU
1	Hooking / Direct tapping from following LT lines LT lines are bare and can be Tapped	Town Feeders	Installation of ABC Cable	280.64
2	Hooking / Direct tapping from following LT lines Hooking	Town Feeders	Use of HVDS	NIL
3	Unmetered consumers billed on assesment basis (category wise)			
	Faulty meters /Wrong Reading	Town Feeders	100% metering provision	0.3045
4	Defective consumer meters / Jam meters			
	Faulty/Non standard meters	Town Feeders	Replacement of meters	2.6154
5	Consumer Meter tampering/ bypassing			
a	Tampering and bypassing of Meter.	All town feeders.	Provision of meter of such consumers by Installing meters on pillar box	2.6245
6	Meters Erroneous/ wrong reading			
	Wrong / Improper meter reading	All Town feeders.	Checking of consumers and posting of current reading books	2.3755
7	Any other field found necessary by utility			
	To reduce AT&C Losses	All Town feeders.	Vigilance checking by Raid party has to be done periodically to assess consumers.	Nil

SUMMARY Project Cost**4.1 Summary of Project Cost (Bill of Quantities)**

SN	Particular	Unit	Qty	Project Cost from lib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos	21	5838.25
B	33/11 KV S/S : Additional Transformer	Nos.	10	1066.40
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	24	1124.51
D	Renovation & Modernisation of 33/11 kV SS	Nos.	30	1799.00
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	265	7160.89
F	33 KV feeders Reconductoring/Augmentation	Kms	125	4135.15
G	33 kV Line Bay Extension at EHV station	Nos	50	1192.50
H	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	110	1292.07
I	11 kV Line : Augmentation/Reconductoring	Kms	60	262.26
J	Arial Bunched Cable	Kms	450	5413.35
K	UG Cable	Kms	40	2035.60
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	462	6233.36
N	Capacity enhancement of LT sub-station	Nos.	600	2100.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	80.29	867.13
P	LT Line : Augmentation/Reconductoring	Kms	50	46.00
Q	Capacitor Bank	Nos.	75	3392.00
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	83900	1607.00
T	Provisioning of solar panel	Lot	20	29.00
U	RMU,Sectionaliser, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	300	474.00
	GRAND TOTAL			46,068.47

Bill of Quantities

IPDS FOR KESCO.KANPUR-2015

Bill of Quantities

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%,1.5%&21% respectively)	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
A	33/11 KV S/S New				
1	2x10 MVA	Nos.	16	303.40	4,854.45
2	2x5 MVA	Nos.	0	248.19	0.00
3	1x10 MVA	Nos.	5	196.76	983.80
	Sub Total		21		5838.25
B	33/11 KV S/S Additional Transformer				
1	5 MVA	Nos.	0	120.74	0.00
2	10 MVA	Nos.	10	106.64	1,066.40
	Sub Total		10		1,066.40
C	33/11 KV S/S transformer capacity enhancement				
1	3 to 10 MVA	Nos.	1	110.66	110.66
2	5 to 10 MVA	Nos.	20	37.49	749.80
3	8 to 10 MVA	Nos.	2	110.66	221.32
4	3 to 5 MVA	Nos.	1	42.73	42.73
	Sub Total		24		1,124.51
D	Renovation & Modernisation of 33/11 KV SS				
1	Renovation & Modernisation of 33/11 KV SS	Nos.	16	31.54	473.10
	Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA	Nos.	10	98.12	981.20
	Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA	Nos.	5	68.94	344.70
	Sub Total		30		1,799.00
E	New 33 KV new feeders/Bifurcation of feeders:				
1	New 33 KV new feeders/Bifurcation of feeders:				
2	On Dog Conductor	Kms	75	11.66	874.50
3	On Panther Conductor	Kms	150	17.57	2,635.55
4	New U/G Line on 33 kv 3x400 sq.mm. XLPE Cable D/C	Kms	30	116.94	3,508.14
5	33 KV Railway Crossing	Nos.	10	14.26	142.60
	Sub Total		265.00		7,160.89
F	33 KV feeders Reconductoring/Augmentation				
1	Reconductoring with ACSR Panther Conductor	Kms	100	17.64	1,764.00
2	Reconductoring with ACSR Dog Conductor	Kms	5	6.19	30.95
3	Reconductoring on 33 kv 3x400 Sq. mm XLPE D/C Cable	Kms	20	117.01	2,340.20
	Sub Total		125		4,135.15
G	33 KV Line Bay Extension at EHV station				
1	33 KV Line Bay Extension at EHV station	Nos.	50	23.85	1,192.50
2		Nos.			
3		Nos.			
	Sub Total		50		1,192.50
H	11 KV Line : New Feeder/ Feeder Bifurcation				
1	11 KV Line : New Feeder/ Feeder Bifurcation	Kms	100	11.50	1,150.00
2	11 KV Railway Crossing	Nos.	10	14	142.07
	Sub Total		110		1,292.07
I	11 KV Line : Augmentation/Reconductoring				
1	11 KV Line : Augmentation/Reconductoring on Dog Conductor	Kms	60	4.37	262.26
2		Kms			
3		Kms			
	Sub Total		60		262.26

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
J	Feeder Bifurcation				
i) HT					
	LT to 11 kV HT conversion on existing pole on Overhead 11 KV 3x95 sq.mm. ABC	Kms	50	14.88	744.00
		Kms			
		Kms			
	Sub Total		50		744.00
ii) LT					
	3x150+1x120+1x16 Sq. mm.	Kms	150	13.13	1,969.35
	3x95+1x70+1x16 Sq. mm.	Kms	250	10.80	2,700.00
		Kms			
	Sub Total		400		4,669.35
	Total		450		5413.35
K	UG Cable				
i) HT					
	New UG DC line on 11 kV 3x300 sq.mm. XLPE Cable	Kms	40	50.89	2,035.60
		Kms			
		Kms			2,035.60
	Sub Total		40		2,035.60
ii) LT					
		Kms			
	Sub Total				
	Total		40.00		2,035.60
L	11 KV Bay Extension				
		Kms			
		Kms			
		Kms			
	Sub Total		0		0.00
M	Installation of Distribution Transformer				
	400 kVA	Nos.	300	14.02	4,205.40
	250KVA	Nos.	10	10.33	103.30
		Nos.			
	250 KVA	Nos.	50	9.83	491.65
	400 KVA	Nos.	100	13.40	1,340.10
	400 kVA Compact Sub Station	Nos.	2	46.46	92.91
	Sub Total		462		6,233.36
N	Capacity enhancement of LT sub-station				
	250 KVA to 400 KVA	Nos.	600	3.50	2,100.00
		Nos.			
	Sub Total		600		2,100.00
O	LT Line New Feeder Feeder Bifurcation				
		Kms			
	New Line on ABC Cable (3x95)	Kms	80.29	10.80	867.13
		Kms			
	Sub Total		80.29		867.13
P	LT Line Augmentation/Reconductoring				
		Kms.	50	0.92	46.00
	Sub Total				46.00

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%,1.5%&21% respectively		Cost proposed under IPDS
				Rs. Lac	Rs. Lac	
Q	Capacitor Bank					
	1.98 MVar	Nos.	25	39.04		976.00
	3.96 MVar	Nos.	50	48.32		2,416.00
	4 KVar LT fixed capacitor bank	Nos.	0	0.04		0.00
	8 KVar LT fixed capacitor bank	Nos.	0	0.06		0.00
	12 KVar LT fixed capacitor bank	Nos.	0	0.09		0.00
	18 KVar LT fixed capacitor bank	Nos.	0	0.14		0.00
	30 KVar LT fixed capacitor bank	Nos.	0	0.22		0.00
	50 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00
	75 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00
	60 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00
	100 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00
	125 KVar LT fixed capacitor bank	Nos.	0	0.68		0.00
		Nos.				
	Sub Total		75			3,392.00
R	HYDR					
		Nos.				
		Nos.				
		Nos.				
	Sub Total		0			0.00
S	Meters					
i)	Prepaid / smart meters in Govt. establishment 1 Phase	Nos.	1500	0.065		97.50
b)	Prepaid / smart meters in Govt. establishment 3 Phase		500	0.130		65.00
ii)	AMI, Smart meters in the towns where SCADA being established under R-APDRP.	Nos.				
iii)	Boundary meters for ring fencing of Non-RAPDRP Towns with population more than 5000	Nos.				
iv)	AMR for feeders, Distribution transformer and high load consumers	Nos.	1900	0.255		484.50
v)	a) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 1 Phase	Nos.	80000	0.012		960.00
	b) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 3 Phase					
vi)	Installation of Pillar Box for relocation of meters outside the premises of consumers including associated cables and accessories	Nos.				
		Nos.				
	Sub Total		83900			1,607.00
T	Provisioning of solar panel					
	Solar Panel 1 kW	Nos.	20	0.95		19.00
	Location 2 / (Capacity)	Nos.				
	Location 3 / (Capacity)	Nos.				
	Net-Meters	Nos.	20	0.50		10.00
		Nos.	20			29.00
	Sub Total					
U	RMU/Sectionalizer/Auto reclosurer/FPI etc.					
i)	33 kV Line : Installation of switchable breaker/switches	Nos.				
ii)	33 kV Line : Installation of communicable/non-communicable FPIs (O/C&E/F)	Nos.				
iii)	11 kV Line : Installation of RMUs/Sectionalizer alongwith aux power supply to operate sw/breaker.	Nos.				
iv)	11 kV Line :- Installation of communicable/non communicable FPIs (O/C,E/F)	Nos.				
v)	11 kV Line : Installation of switchable breakers alongwith aux power supply to operate sw/breaker	Nos.				
vi)	Installation of remote operable switches for breaker/switches operation for Distribution Transformer alongwith aux power supply to operate sw/breaker	Nos.				
vii)	Installation of remote operable switches for breaker/switches operation for cap bank alongwith aux power supply to operate sw/breaker .	Nos.				
		Nos.				
	Sub Total		0			0.00
V	Others					
	Existing DT Renovation & Metering		300	1.58		474.00
			300			474.00
	Sub Total					
	Grand Total					46,068.47

Note: Unit price and Total Cost are inclusive of all taxes and duties

SUMMARY Project Cost

4.1 Summary of Project Cost (Bill of Quantities)				Circle-I
SN	Particular	Unit	Qty	Project Cost from lib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos	5	1303.73
B	33/11 KV S/S : Additional Transformer	Nos.	2	213.28
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	6	298.11
D	Renovation & Modernisation of 33/11 kv SS	Nos.	11	858.62
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	66	1937.66
F	33 KV feeders Reconductoring/Augmentation	Kms	49	1426.23
G	33 kv Line Bay Extension at EHV station	Nos	15	357.75
H	11 kv Line : New Feeder/ Feeder Bifurcation	Kms	38	445.12
I	11 kv Line : Augmentation/Reconductoring	Kms	20	87.42
J	Arial Bunched Cable	Kms	145	1732.01
K	UG Cable	Kms	15	763.35
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	189	2481.11
N	Capacity enhancement of LT sub-station	Nos.	200	700.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	25.00	270.00
P	LT Line : Augmentation/Reconductoring	Kms	20	18.40
Q	Capacitor Bank	Nos.	24	1085.44
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	26100	476.25
T	Provisioning of solar panel	Lot	6	5.70
U	RMU,Sectionaliser, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	80	126.40
	GRAND TOTAL			14,586.57

Bill of Quantities

IPDS FOR KESCO.KANPUR-2015

Bill of Quantities

Circle-I

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
A	33/11 KV S/S New				
1	2x10 MVA	Nos.	3	303.40	910.21
2	2x5 MVA	Nos.	0	248.19	0.00
3	1x10 MVA	Nos.	2	196.76	393.52
	Sub Total		5		1303.73
B	33/11 KV S/S Additional Transformer				
1	5 MVA	Nos.	0	120.74	0.00
2	10 MVA	Nos.	2	106.64	213.28
	Sub Total		2		213.28
C	33/11 KV S/S Transformer capacity enhancement				
1	3 to 10 MVA	Nos.	1	110.66	110.66
2	5 to 10 MVA	Nos.	5	37.49	187.45
3	8 to 10 MVA	Nos.	0	110.66	0.00
4	3 to 5 MVA	Nos.	0	42.73	0.00
	Sub Total		6		298.11
D	Renovation & Modernisation of 33/11 KV S/S				
1	Renovation & Modernisation of 33/11 KV S/S	Nos.	2	31.54	63.08
	Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA	Nos.	6	98.12	588.72
	Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA	Nos.	3	68.94	206.82
	Sub Total		11		858.62
E	New 33 KV new feeder/Bifurcation of feeder				
1	New 33 KV new feeders/Bifurcation of feeders:				
2	On Dog Conductor	Kms	18	11.66	209.88
3	On Panther Conductor	Kms	36	17.57	632.56
4	New U/G Line on 33 kV 3x400 sq.mm. XLPE Cable D/C	Kms	9	116.94	1,052.44
5	33 KV Railway Crossing	Nos.	3	14.26	42.78
	Sub Total		66.00		1,937.66
F	33 KV feeders Reconductoring/ Augmentation				
1	Reconductoring with ACSR Panther Conductor	Kms	40	17.64	706.60
2	Reconductoring with ACSR Dog Conductor	Kms	3	6.19	18.57
3	Reconductoring on 33 kV 3x400 Sq. mm XLPE D/C Cable	Kms	6	117.01	702.06
	Sub Total		49		1,426.23
G	33 KV Line Bay Extension at EHV station				
1	33 KV Line Bay Extension at EHV station	Nos.	15	23.85	357.75
2		Nos.			
3		Nos.			
	Sub Total		15		357.75
H	11 KV Line New Feeder/ Feeder Bifurcation				
1	11 KV Line : New Feeder/ Feeder Bifurcation	Kms	35	11.50	402.50
2	11 KV Railway Crossing	Nos.	3	14	42.62
	Sub Total		38		445.12
I	11 KV Line Augmentation/Reconductoring				
1	11 KV Line : Augmentation/Reconductoring on Dog Conductor	Kms	20	4.37	87.42
2		Kms			
3		Kms			
	Sub Total		20		87.42

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively		Cost proposed under IPDS
				Rs. Lac	Rs. Lac	
J	HT Bundled Cable					
i) HT						
	LT to 11 kV HT conversion on existing pole on Overhead 11 KV 3x95 sq.mm. ABC	Kms	15	14.88		223.20
		Kms				
		Kms				
	Sub Total		15			223.20
ii) LT						
	3x150+1x120+1x16 Sq. mm.	Kms	45	13.13		590.81
	3x95+1x70+1x16 Sq. mm.	Kms	85	10.80		918.00
		Kms				
	Sub Total		130			1,508.81
	Total		145			1732.01
K	UG Cable					
i) HT						
	1 New UG DC line on 11 kV 3x300 sq.mm. XLPE Cable	Kms	15	50.89		763.35
		Kms				
		Kms				763.35
	Sub Total		15			763.35
ii) LT						
		Kms				
	Sub Total					
	Total		15.00			763.35
L	11 KV Bay Extension					
		Kms				
		Kms				
		Kms				
	Sub Total		0			0.00
M	Installation of Distribution Transformer					
	400 kVA	Nos.	80	14.02		1,121.44
	250KVA	Nos.	3	10.33		30.99
		Nos.				
	250 KVA	Nos.	38	9.83		344.16
	400 KVA	Nos.	70	13.40		938.07
	400 kVA Compact Sub Station	Nos.	1	46.46		46.46
	Sub Total		189			2,481.11
N	Capacity enhancement of LT sub-station					
	250 KVA to 400 KVA	Nos.	200	3.50		700.00
		Nos.				
	Sub Total		200			700.00
O	LT Line New Feeder/Feeder Bifurcation					
		Kms				
	New Line on ABC Cable (3x95)	Kms	25.00	10.80		270.00
		Kms				
	Sub Total		25.00			270.00
P	LT Line Augmentation/Reconductoring					
		Kms.	20	0.92		18.40
	Sub Total					18.40

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)		Cost proposed under IPDS
				Rs. Lac	Rs. Lac	
Q	Capacitor bank					
	1.98 MVar	Nos.	8	39.04		312.32
	3.96 MVar	Nos.	16	48.32		773.12
	4 KVar LT fixed capacitor bank	Nos.	0	0.04		0.00
	8 KVar LT fixed capacitor bank	Nos.	0	0.06		0.00
	12 KVar LT fixed capacitor bank	Nos.	0	0.09		0.00
	18 KVar LT fixed capacitor bank	Nos.	0	0.14		0.00
	30 KVar LT fixed capacitor bank	Nos.	0	0.22		0.00
	50 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00
	75 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00
	60 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00
	100 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00
	125 KVar LT fixed capacitor bank	Nos.	0	0.58		0.00
		Nos.				
	Sub Total		24			1,085.44
R	BMDS					
		Nos.				
		Nos.				
		Nos.				
	Sub Total		0			0.00
S	Metering					
i)	a) Prepaid / smart meters in Govt. establishment 1 Phase	Nos.	450	0.065		29.25
	b) Prepaid / smart meters in Govt. establishment 3 Phase		150	0.130		19.50
ii)	AMI, Smart meters in the towns where SCADA being established under R-APDRP	Nos.				
iii)	Boundary meters for ring fencing of Non-RAPDRP Towns with population more than 5000	Nos.				
iv)	AMR for feeders, Distribution transformer and high load consumers	Nos.	500	0.255		127.50
v)	a) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 1 Phase	Nos.	25000	0.012		300.00
	b) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 3 Phase					
vi)	Installation of Pillar Box for relocation of meters outside the premises of consumers including associated cables and accessories	Nos.				
	Sub Total		26100			476.25
T	Provisioning of solar panel					
	Solar Panel 1 kW	Nos.	6	0.95		5.70
	Location 2 / (Capacity)	Nos.				
	Location 3 / (Capacity)	Nos.				
	Net-Meters	Nos.	0	0.50		0.00
	Sub Total		6			5.70
U	RMU/Sectionalizer, Auto reclosures, FPLs					
i)	33 kV Line : Installation of switchable breaker/switches	Nos.				
ii)	33 kV Line : Installation of communicable/non-communicable FPLs (O/C&E/F)	Nos.				
iii)	11 kV Line : Installation of RMUs/Sectionalizer alongwith aux power supply to operate sw/breaker.	Nos.				
iv)	11 kV Line :- Installation of communicable/non communicable FPLs (O/C, E/F)	Nos.				
v)	11 kV Line : Installation of switchable breakers alongwith aux power supply to operate sw/breaker	Nos.				
vi)	Installation of remote operable switches for breaker/switches operation for Distribution Transformer alongwith aux power supply to operate sw/breaker	Nos.				
vii)	Installation of remote operable switches for breaker/switches operation for cap bank alongwith aux power supply to operate sw/breaker.	Nos.				
	Sub Total		0			0.00
V	Other					
	Existing DT Renovation & Metering		80	1.58		126.40
	Sub Total		80			126.40
	Grand Total					14,586.57

Note: Unit price and Total Cost are inclusive of all taxes and duties

SUMMARY Project Cost

4.1 Summary of Project Cost (Bill of Quantities)				Circle-II
SN	Particular	Unit	Qty	Project Cost from lib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos	7	2123.82
B	33/11 KV S/S : Additional Transformer	Nos.	3	319.92
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	10	448.07
D	Renovation & Modernisation of 33/11 kV SS	Nos.	9	558.40
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	86	2148.33
F	33 KV feeders Reconductoring/Augmentation	Kms	37	1126.63
G	33 kV Line Bay Extension at EHV station	Nos	15	357.75
H	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	33	387.62
I	11 kV Line : Augmentation/Reconductoring	Kms	20	87.42
J	Arial Bunched Cable	Kms	130	1558.36
K	UG Cable	Kms	10	508.90
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	119	1608.23
N	Capacity enhancement of LT sub-station	Nos.	180	630.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	20.00	216.00
P	LT Line : Augmentation/Reconductoring	Kms	15	13.80
Q	Capacitor Bank	Nos.	21	949.76
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	21030	410.40
T	Provisioning of solar panel	Lot	5	4.75
U	RMU,Sectionaliser, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	80	126.40
	GRAND TOTAL			13,584.57

Bill of Quantities

IPDS FOR KESCO.KANPUR-2015

Bill of Quantities

Circle-II

S No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
A	33/11 KV S/S-Now				
1	2x10 MVA	Nos.	7	303.40	2,123.82
2	2x5 MVA	Nos.	0	248.19	0.00
3	1x10 MVA	Nos.	0	198.76	0.00
	Sub Total		7		2123.82
B	33/11 KV S/S Additional Transformer				
1	5 MVA	Nos.	0	120.74	0.00
2	10 MVA	Nos.	3	106.64	319.92
	Sub Total		3		319.92
C	33/11 KV S/S Transformer capacity enhancement				
1	3 to 10 MVA	Nos.	0	110.66	0.00
2	5 to 10 MVA	Nos.	9	37.49	337.41
3	8 to 10 MVA	Nos.	1	110.66	110.66
4	3 to 5 MVA	Nos.	0	42.73	0.00
	Sub Total		10		448.07
D	Renovation & Modernisation of 33/11 KV SS				
1	Renovation & Modernisation of 33/11 KV SS	Nos.	4	31.64	126.16
	Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA	Nos.	3	98.12	294.36
	Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA	Nos.	2	68.94	137.88
	Sub Total		9		558.40
E	New 33 KV new feeders/Bifurcation of feeders				
1	New 33 KV new feeders/Bifurcation of feeders;				
2	On Dog Conductor	Kms	25	11.66	291.50
3	On Panther Conductor	Kms	60	17.57	878.55
4	New U/G Line on 33 KV 3x400 sq.mm. XLPE Cable D/C	Kms	8	116.94	935.60
5	33 KV Railway Crossing	Nos.	3	14.26	42.78
	Sub Total		86		2,148.33
F	33 KV feeders Reconductoring/Augmentation				
1	Reconductoring with ACSR Panther Conductor	Kms	30	17.64	529.20
2	Reconductoring with ACSR Dog Conductor	Kms	2	6.18	12.38
3	Reconductoring on 33 KV 3x400 Sq. mm XLPE D/C Cable	Kms	6	117.01	586.06
	Sub Total		37		1,126.63
G	33 KV Line Bay Extension at EHV station				
1	33 KV Line Bay Extension at EHV station,	Nos.	15	23.85	357.75
2		Nos.			
3		Nos.			
	Sub Total		15		357.75
H	11 KV Line New Feeder/ Feeder Bifurcation				
1	11 KV Line : New Feeder/ Feeder Bifurcation	Kms	30	11.50	345.00
2	11 KV Railway Crossing	Nos.	3	14	42.62
	Sub Total		33		387.62
I	11 KV Line : Augmentation/Reconductoring				
1	11 KV Line : Augmentation/Reconductoring on Dog Conductor	Kms	20	4.37	87.42
2		Kms			
3		Kms			
	Sub Total		20		87.42

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively		Cost proposed under IPDS	
				Rs. Lac		Rs. Lac	
J	Arrangement of Cable						
i) HT							
	LT to 11 kV HT conversion on existing pole on Overhead 11 KV 3x95 sq.mm. ABC	Kms	15	14.88		223.20	
		Kms					
		Kms					
	Sub Total		15			223.20	
ii) LT							
	3x150+1x120+1x16 Sq. mm.	Kms	40	13.13		525.16	
	3x95+1x70+1x16 Sq. mm.	Kms	75	10.80		810.00	
		Kms					
	Sub Total		115			1,335.16	
	Total		130			1558.36	
K	DC Cable						
i) HT							
	1 New UG DC line on 11 kV 3x300 sq.mm. XLPE Cable	Kms	10	50.89		508.90	
		Kms					
		Kms				508.90	
	Sub Total		10			508.90	
ii) LT							
		Kms					
	Sub Total						
	Total		10			508.90	
L	11 KV Bay Extension						
		Kms					
		Kms					
		Kms					
	Sub Total		0			0.00	
M	Installation of Distribution Transformer						
	400 kVA	Nos.	70	14.02		981.26	
	250KVA	Nos.	3	10.33		30.99	
		Nos.					
	250 KVA	Nos.	15	9.83		147.50	
	400 KVA	Nos.	30	13.40		402.03	
	400 KVA Compact Sub Station	Nos.	1	46.46		46.46	
	Sub Total		119			1,608.23	
N	Capacity enhancement of LT sub-station						
	250 KVA to 400 KVA	Nos.	180	3.50		630.00	
		Nos.					
	Sub Total		180			630.00	
O	LT Line New Feeder Feeder Bifurcation						
		Kms					
	New Line on ABC Cable (3x95)	Kms	20	10.80		216.00	
		Kms					
	Sub Total		20			216.00	
P	LT Line Augmentation/Reconductoring						
		Kms.	15	0.92		13.80	
	Sub Total					13.80	

S. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)		Cost proposed under IPDS
				Rs. Lac	Rs. Lac	
Q	CAPACITOR BANK					
	1.98 MVar	Nos.	7	39.04		273.28
	3.96 MVar	Nos.	14	48.32		676.48
	4 KVAR LT fixed capacitor bank	Nos.	0	0.04		0.00
	8 KVAR LT fixed capacitor bank	Nos.	0	0.06		0.00
	12 KVAR LT fixed capacitor bank	Nos.	0	0.09		0.00
	18 KVAR LT fixed capacitor bank	Nos.	0	0.14		0.00
	30 KVAR LT fixed capacitor bank	Nos.	0	0.22		0.00
	50 KVAR LT fixed capacitor bank	Nos.	0	0.39		0.00
	75 KVAR LT fixed capacitor bank	Nos.	0	0.57		0.00
	60 KVAR LT fixed capacitor bank	Nos.	0	0.39		0.00
	100 KVAR LT fixed capacitor bank	Nos.	0	0.57		0.00
	125 KVAR LT fixed capacitor bank	Nos.	0	0.68		0.00
	Sub Total		21			949.76
R	AVDS					
		Nos.				
		Nos.				
	Sub Total		0			0.00
S	Metering					
i)	a) Prepaid / smart meters in Govt. establishment 1 Phase	Nos.	400	0.065		26.00
	b) Prepaid / smart meters in Govt. establishment 3 Phase		130	0.130		16.90
ii)	AMI, Smart meters in the towns where SCADA being established under R-APDRP	Nos.				
iii)	Boundary meters for ring fencing of Non-RAPDRP Towns with population more than 5000	Nos.				
iv)	AMR for feeders, Distribution transformer and high load consumers	Nos.	500	0.265		127.50
v)	a) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 1 Phase	Nos.	20000	0.012		240.00
	b) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 3 Phase					
vi)	Installation of Pillar Box for relocation of meters outside the premises of consumers including associated cables and accessories	Nos.				
	Sub Total		21030			410.40
T	PROVISIONING OF SPT PART II					
	Solar Panel 1 kW	Nos.	5	0.95		4.75
	Location 2 I (Capacity)	Nos.				
	Location 3 I (Capacity)	Nos.				
	Net-Meters	Nos.	0	0.50		0.00
	Sub Total		5			4.75
U	RMU/Sectionalizer, Auto reclosers, FPI etc.					
i)	33 kV Line : Installation of switchable breaker/switches	Nos.				
ii)	33 kV Line : Installation of communicable/non-communicable FPIs (O/C&E/F)	Nos.				
iii)	11 kV Line : Installation of RMUs/Sectionalizer alongwith aux power supply to operate sw/breaker.	Nos.				
iv)	11 kV Line :- Installation of communicable/non communicable FPIs (O/C,E/F)	Nos.				
v)	11 kV Line : Installation of switchable breakers alongwith aux power supply to operate sw/breaker	Nos.				
vi)	Installation of remote operable switches for breaker/switches operation for Distribution Transformer alongwith aux power supply to operate sw/breaker	Nos.				
vii)	Installation of remote operable switches for breaker/switches operation for cap bank alongwith aux power supply to operate sw/breaker.	Nos.				
	Sub Total		0			0.00
V	Others					
	Existing DT Rennovation & Metering		80	1.58		126.40
	Sub Total		80			126.40
	Grand Total					13,584.57

Note: Unit price and Total Cost are inclusive of all taxes and duties

SUMMARY Project Cost

4.1 Summary of Project Cost (Bill of Quantities)

				Circle-III
SN	Particular	Unit	Qty	Project Cost from lib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos.	6	1500.49
B	33/11 KV S/S : Additional Transformer	Nos.	3	319.92
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	5	265.86
D	Renovation & Modernisation of 33/11 kV SS	Nos.	7	287.36
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	74	1961.13
F	33 KV feeders Reconductoring/Augmentation	Kms	25	937.85
G	33 kV Line Bay Extension at EHV station	Nos.	12	286.20
H	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	27	315.91
I	11 kV Line : Augmentation/Reconductoring	Kms	15	65.57
J	Arial Bunched Cable	Kms	110	1342.36
K	UG Cable	Kms	10	508.90
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	82	1142.10
N	Capacity enhancement of LT sub-station	Nos.	160	560.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	25.00	270.00
P	LT Line : Augmentation/Reconductoring	Kms	10	9.20
Q	Capacitor Bank	Nos.	18	814.08
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	20975	406.50
T	Provisioning of solar panel	Lot	5	4.75
U	RMU,Sectionalizer, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	80	126.40
	GRAND TOTAL			11,124.57

of Quantities

IPDS FOR KESCO.KANPUR-2015

Bill of Quantities

Circle-III

Item Details		Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%,1.5%&21% respectively	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
A	33 KV S/S New				
1	2x10 MVA	Nos	3	303.40	910.21
2	2x5 MVA	Nos	0	248.19	0.00
3	1x10 MVA	Nos.	3	196.76	590.28
	Sub Total		6		1500.49
B	33 KV S/S. Additional Transformer				
1	5 MVA	Nos.	0	120.74	0.00
2	10 MVA	Nos.	3	106.64	319.92
	Sub Total		3		319.92
C	33 KV S/S Transformer - Updty - Enhancement				
1	3 to 10 MVA	Nos.	0	110.66	0.00
2	5 to 10 MVA	Nos.	3	37.49	112.47
3	8 to 10 MVA	Nos.	1	110.66	110.66
4	3 to 5 MVA	Nos.	1	42.73	42.73
	Sub Total		5		265.86
D	Renovation & Modernisation of 33/11 KV SS				
1	Renovation & Modernisation of 33/11 KV SS	Nos.	6	31.54	189.24
	Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA	Nos.	1	98.12	98.12
	Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA	Nos.	0	68.94	0.00
	Sub Total		7		287.36
E	New 33 KV new feeders/Bifurcation of feeders				
1	New 33 KV new feeders/Bifurcation of feeders:				
2	On Dog Conductor	Kms	21	11.66	244.86
3	On Panther Conductor	Kms	42	17.57	737.98
4	New U/G Line on 33 kv 3x400 sq.mm. XLPE Cable D/C	Kms	8	116.94	935.50
5	33 KV Railway Crossing	Nos.	3	14.28	42.78
	Sub Total		74		1,961.13
F	33 KV feeders Reconductoring/Augmentation				
1	Reconductoring with ACSR Panther Conductor	Kms	20	17.64	352.80
2	Reconductoring with ACSR Dog Conductor	Kms	0	6.19	0.00
3	Reconductoring on 33 kv 3x400 Sq. mm XLPE D/C Cable	Kms	5	117.01	585.05
	Sub Total		25		937.85
G	33 KV Line Bay Extension at EHV station				
1	33 KV Line Bay Extension at EHV station	Nos	12	23.85	286.20
2		Nos			
3		Nos			
	Sub Total		12		286.20
H	11 KV Line New Feeder/ Feeder Bifurcation				
1	11 kv Line : New Feeder/ Feeder Bifurcation	Kms	25	11.50	287.50
2	11 kv Railway Crossing	Nos	2	14	28.41
	Sub Total		27		315.91
I	11 KV Line Augmentation/Reconductoring				
1	11 kv Line : Augmentation/Reconductoring on Dog Conductor	Kms	15	4.37	65.57
2		Kms			
3		Kms			
	Sub Total		15		65.57

Item Details		Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%,1.5%&21% respectively	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
B. Budget Table					
HT					
LT to 11 kV HT conversion on existing pole on Overhead 11 KV 3x95 sq.mm. ABC		Kms	15	14.88	223.20
		Kms			
		Kms			
Sub Total			15		223.20
LT					
3x150+1x120+1x16 Sq. mm.		Kms	40	13.13	525.16
3x95+1x70+1x16 Sq. mm.		Kms	55	10.80	594.00
		Kms			
Sub Total			95		1,119.16
Total			110		1342.36
K					
HT					
1 New UG DC line on 11 kV 3x300 sq.mm. XLPE Cable		Kms	10	50.89	508.90
		Kms			
		Kms			508.90
Sub Total			10		508.90
LT					
		Kms			
Sub Total					
Total			10.00		508.90
L					
420KV Extension		Kms			
		Kms			
		Kms			
Sub Total			0		0.00
M					
Installation of Distribution Transformer					
400 kVA		Nos.	80	14.02	1,121.44
250KVA		Nos.	2	10.33	20.66
		Nos.			
250 KVA		Nos.	0	9.83	0.00
400 KVA		Nos.	0	13.40	0.00
400 kVA Compact Sub Station		Nos.	0	46.48	0.00
Sub Total			82		1,142.10
N					
Capacity enhancement of LT sub-station					
250 KVA to 400 KVA		Nos.	160	3.50	560.00
		Nos.			
Sub Total			160		560.00
O					
15 KV New Feeder/Feeder Bifurcation					
		Kms			
New Line on ABC Cable (3x95)		Kms	25.00	10.80	270.00
		Kms			
Sub Total			25.00		270.00
P					
15 KV Line Augmentation/Reconductoring					
		Kms.	10	0.92	9.20
Sub Total					9.20

Sl. No.	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)		Cost proposed under IPDS	
				Rs. Lac		Rs. Lac	
Q	Capacitor Bank						
	1.98 MVar	Nos.	6	39.04		234.24	
	3.96 MVar	Nos.	12	48.32		679.84	
	4 KVar LT fixed capacitor bank	Nos.	0	0.04		0.00	
	8 KVar LT fixed capacitor bank	Nos.	0	0.06		0.00	
	12 KVar LT fixed capacitor bank	Nos.	0	0.09		0.00	
	18 KVar LT fixed capacitor bank	Nos.	0	0.14		0.00	
	30 KVar LT fixed capacitor bank	Nos.	0	0.22		0.00	
	50 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00	
	75 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00	
	60 KVar LT fixed capacitor bank	Nos.	0	0.39		0.00	
	100 KVar LT fixed capacitor bank	Nos.	0	0.57		0.00	
	125 KVar LT fixed capacitor bank	Nos.	0	0.68		0.00	
	Sub Total		18			814.08	
R	WDS						
		Nos.					
		Nos.					
	Sub Total		0			0.00	
S	Metering						
	a) Prepaid / smart meters in Govt. establishment 1 Phase	Nos.	350	0.065		22.75	
	b) Prepaid / smart meters in Govt. establishment 3 Phase		125	0.130		16.25	
	ii) AMI, Smart meters in the towns where SCADA being established under R-APDRP.	Nos.					
	iii) Boundary meters for ring fencing of Non-RAPDRP Towns with population more than 5000	Nos.					
	iv) AMR for feeders, Distribution transformer and high load consumers	Nos.	500	0.255		127.50	
	v) a) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 1 Phase	Nos.	20000	0.012		240.00	
	b) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 3 Phase						
	vi) Installation of Pillar Box for relocation of meters outside the premises of consumers including associated cables and accessories	Nos.					
	Sub Total		20975			406.50	
T	Provisioning of solar panel						
	Solar Panel 1 kW	Nos.	5	0.95		4.75	
	Location 2 / (Capacity)	Nos.					
	Location 3 / (Capacity)	Nos.					
	Net-Meters	Nos.	0	0.50		0.00	
	Sub Total		5			4.75	
U	RMU/Sectionalizer, Auto reclosure, FPI etc						
	i) 33 kV Line : Installation of switchable breaker/switches	Nos.					
	ii) 33 kV Line : Installation of communicable/non-communicable FPIs (O/C&E/F)	Nos.					
	iii) 11 kV Line : Installation of RMUs/Sectionalizer alongwith aux power supply to operate sw/breaker.	Nos.					
	iv) 11 kV Line :- Installation of communicable/non communicable FPIs (O/C, E/F)	Nos.					
	v) 11 kV Line : Installation of switchable breakers alongwith aux power supply to operate sw/breaker	Nos.					
	vi) Installation of remote operable switches for breaker/switches operation for Distribution Transformer alongwith aux power supply to operate sw/breaker	Nos.					
	vii) Installation of remote operable switches for breaker/switches operation for cap bank alongwith aux power supply to operate sw/breaker.	Nos.					
	Sub Total		0			0.00	
V	Others						
	Existing DT Renovation & Metering		80	1.58		126.40	
	Sub Total		80			126.40	
	Grand Total					11,124.57	

Note: Unit price and Total Cost are inclusive of all taxes and duties

SUMMARY Project Cost**4.1 Summary of Project Cost (Bill of Quantities)**

				Circle-IV
SN	Particular	Unit	Qty	Project Cost from lib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos	3	910.21
B	33/11 KV S/S : Additional Transformer	Nos.	2	213.28
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	3	112.47
D	Renovation & Modernisation of 33/11 kV SS	Nos.	3	94.62
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	39	1113.77
F	33 KV feeders Reconductoring/Augmentation	Kms	14	644.44
G	33 kV Line Bay Extension at EHV station	Nos	8	190.80
H	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	12	143.41
I	11 kV Line : Augmentation/Reconductoring	Kms	5	21.86
J	Arial Bunched Cable	Kms	65	780.63
K	UG Cable	Kms	5	254.45
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	72	1001.92
N	Capacity enhancement of LT sub-station	Nos.	60	210.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	10.29	111.13
P	LT Line : Augmentation/Reconductoring	Kms	5	4.60
Q	Capacitor Bank	Nos.	12	542.72
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	15795	313.85
T	Provisioning of solar panel	Lot	4	3.80
U	RMU,Sectionaliser, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	60	94.80
	GRAND TOTAL			6,762.76

IPDS FOR KESCO.KANPUR-2015

Bill of Quantities

Circle-IV

Item Details		Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
A	33 KV S/S New				
1	2x10 MVA	Nos.	3	303.40	910.21
2	2x5 MVA	Nos.	0	248.19	0.00
3	1x10 MVA	Nos.	0	196.76	0.00
	Sub Total		3		910.21
B	33 KV S/S Additional Transformer				
1	5 MVA	Nos.	0	120.74	0.00
2	10 MVA	Nos.	2	106.64	213.28
	Sub Total		2		213.28
C	33 KV S/S Transformer capacity enhancement				
1	3 to 10 MVA	Nos.	0	110.66	0.00
2	5 to 10 MVA	Nos.	3	37.49	112.47
3	8 to 10 MVA	Nos.	0	110.66	0.00
4	3 to 5 MVA	Nos.	0	42.73	0.00
	Sub Total		3		112.47
D	Renovation & Modernisation of 33/11 KV SS				
1	Renovation & Modernisation of 33/11 KV SS	Nos.	3	31.54	94.62
	Conversion of 33/6.6 KV 10 MVA to 33/11 KV 10 MVA	Nos.	0	98.12	0.00
	Conversion of 33/6.6 KV 5 MVA to 33/11 KV 5 MVA	Nos.	0	68.94	0.00
	Sub Total		3		94.62
E	New 33 KV new feeders/Bifurcation of feeders:				
1	New 33 KV new feeders/Bifurcation of feeders:				
2	On Dog Conductor	Kms	11	11.66	128.26
3	On Panther Conductor	Kms	22	17.57	386.56
4	New U/G Line on 33 kV 3x400 sq.mm. XLPE Cable D/C	Kms	5	116.94	584.69
5	33 KV Railway Crossing	Nos.	1	14.26	14.26
	Sub Total		39		1,113.77
F	33 KV feeders Reconductoring/Augmentation				
1	Reconductoring with ACSR Panther Conductor	Kms	10	17.64	176.40
2	Reconductoring with ACSR Dog Conductor	Kms	0	6.19	0.00
3	Reconductoring on 33 kV 3x400 Sq. mm XLPE D/C Cable	Kms	4	117.01	468.04
	Sub Total		14		644.44
G	33 KV Line Bay Extension at EHV station				
1	33 kV Line Bay Extension at EHV station	Nos.	8	23.85	190.80
2		Nos.			
3		Nos.			
	Sub Total		8		190.80
H	11 KV Line New Feeder/ Feeder Bifurcation				
1	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	10	11.50	115.00
2	11 kV Railway Crossing	Nos.	2	14	28.41
	Sub Total		12		143.41
I	11 KV Line Augmentation/Reconductoring				
1	11 kV Line : Augmentation/Reconductoring on Dog Conductor	Kms	5	4.37	21.86
2		Kms			
3		Kms			
	Sub Total		5		21.86

Item Details		Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%,1.5%&21% respectively	Cost proposed under IPDS
				Rs. Lac	Rs. Lac
J HT					
LT to 11 kV HT conversion on existing pole on Overhead 11 KV 3x95 sq.mm. ABC		Kms	5	14.88	74.40
		Kms			
		Kms			
Sub Total			5		74.40
K LT					
3x150+1x120+1x16 Sq. mm.		Kms	25	13.13	328.23
3x95+1x70+1x16 Sq. mm.		Kms	35	10.80	378.00
		Kms			
Sub Total			60		706.23
Total			65		780.63
L 11 KV Bay Extension					
1 New UG DC line on 11 kV 3x300 sq.mm. XLPE Cable		Kms	5	50.89	254.45
		Kms			
		Kms			254.45
Sub Total			5		254.45
M Installation of Distribution Transformer					
		Kms			
Sub Total					
Total			5		254.45
N Capacity enhancement of LT sub-station					
		Kms			
		Kms			
		Kms			
Sub Total			0		0.00
O LT Line New Feeder/Feeder Bifurcation					
400 KVA		Nos.	70	14.02	981.26
250KVA		Nos.	2	10.33	20.66
		Nos.			
250 KVA		Nos.	0	9.83	0.00
400 KVA		Nos.	0	13.40	0.00
400 KVA Compact Sub Station		Nos.	0	46.46	0.00
Sub Total			72		1,001.92
P LT Line Augmentation/Reconductoring					
250 KVA to 400 KVA		Nos.	60	3.50	210.00
		Nos.			
Sub Total			60		210.00
Q LT Line New Feeder/Feeder Bifurcation					
New Line on ABC Cable (3x95)		Kms	10.29	10.80	111.13
		Kms			
Sub Total			10.29		111.13
R LT Line Augmentation/Reconductoring					
		Kms.	5	0.92	4.60
Sub Total					4.60

Q	Item Details	Unit	Qty proposed under IPDS	RESPO rate (after considering loading of 3%, 1.5% & 21% respectively)		Cost proposed under IPDS
				Rs. Lac	Rs. Lac	
	Capacitor Bank					
	1.98 MVAR	Nos.	4	39.04	156.16	
	3.96 MVAR	Nos.	8	48.32	386.56	
	4 KVAR LT fixed capacitor bank	Nos.	0	0.04	0.00	
	8 KVAR LT fixed capacitor bank	Nos.	0	0.08	0.00	
	12 KVAR LT fixed capacitor bank	Nos.	0	0.09	0.00	
	18 KVAR LT fixed capacitor bank	Nos.	0	0.14	0.00	
	30 KVAR LT fixed capacitor bank	Nos.	0	0.22	0.00	
	50 KVAR LT fixed capacitor bank	Nos.	0	0.39	0.00	
	75 KVAR LT fixed capacitor bank	Nos.	0	0.57	0.00	
	60 KVAR LT fixed capacitor bank	Nos.	0	0.39	0.00	
	100 KVAR LT fixed capacitor bank	Nos.	0	0.57	0.00	
	125 KVAR LT fixed capacitor bank	Nos.	0	0.68	0.00	
	Sub Total		12			542.72
R	IPDS					
		Nos.				
		Nos.				
	Sub Total		0			0.00
S	Metering					
	i) Prepaid / smart meters in Govt. establishment 1 Phase	Nos.	300	0.065	19.50	
	b) Prepaid / smart meters in Govt. establishment 3 Phase		95	0.130	12.35	
	ii) AMI, Smart meters in the towns where SCADA being established under R-APDRP	Nos.				
	iii) Boundary meters for ring fencing of Non-RAPDRP Towns with population more than 5000	Nos.				
	iv) AMR for feeders, Distribution transformer and high load consumers	Nos.	400	0.255	102.00	
	v) a) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 1 Phase	Nos.	15000	0.012	180.00	
	b) Consumers for existing un-metered connections, replacement of faulty meters & electro-mechanical meters 3 Phase					
	vi) Installation of Pillar Box for relocation of meters outside the premises of consumers including associated cables and accessories	Nos.				
	Sub Total		15795			313.85
T	Provisioning of solar panel					
	Solar Panel 1 kW	Nos.	4	0.95	3.80	
	Location 2 / (Capacity)	Nos.				
	Location 3 / (Capacity)	Nos.				
	Net-Meters	Nos.	0	0.50	0.00	
	Sub Total		4			3.80
U	RMU, Sectionalizer, Auto reclosures, FPI etc.					
	i) 33 kV Line : Installation of switchable breaker/switches	Nos.				
	ii) 33 kV Line : Installation of communicable/non-communicable FPIs (O/C&E/F)	Nos.				
	iii) 11 kV Line : Installation of RMUs/Sectionalizer alongwith aux power supply to operate sw/breaker.	Nos.				
	iv) 11 kV Line : Installation of communicable/non communicable FPIs (O/C,E/F)	Nos.				
	v) 11 kV Line : Installation of switchable breakers alongwith aux power supply to operate sw/breaker	Nos.				
	vi) Installation of remote operable switches for breaker/switches operation for Distribution Transformer alongwith aux power supply to operate sw/breaker	Nos.				
	vii) Installation of remote operable switches for breaker/switches operation for cap bank alongwith aux power supply to operate sw/breaker.	Nos.				
	Sub Total		0			0.00
V	Others					
	Existing DT Renovation & Metering		60	1.58	94.80	
	Sub Total		60			94.80
	Grand Total					6,762.76

Note: Unit price and Total Cost are inclusive of all taxes and duties

Expected Project Benefit

5.1 Project Benefit (AT&C Losses)

For the Project Area	Unit	Assessment of Existing Losses for Base Year
Energy Input	M Units	3554.39
Energy Sales	M Units	2458.09
Total Revenue Billed	Rs. Cr.	1632.36
Total Revenue Collected (including arrears)	Rs. Cr.	1555.33
Arrears {Actual or Total Revenue billed-Revenue collected}	Rs. Lac	77.03
Average Tarrif for Project Area	Rs./Unit	6.64
Billing Efficiency	%	69.16%
Collection Efficiency	%	95.28%
AT&C Losses (Assessed)	%	34.11%

It is envisaged that with implementation of the project the AT&C Losses shall be reduced progressively as shown below

Base Year	%	34.11%
Year-1	%	26.64%
Year-2	%	20.72%
Year-3	%	14.50%
Year-4	%	14.50%
Year-5	%	14.50%

Expected Benefits from the Project

•Technical Loss Reduction

After implementation of this scheme the technical losses will reduce.

•Commercial Loss Reduction

After Completion of IPDS of Kanpur town 100% metering, cent percent billing and revenue collection has been ensured, this will result in minimisation of Commercial losses.

•Quality of Supply & System Reliability

After implementation of this scheme the voltages at consumer end will improve considerable. Reliability of supply shall increase and un-necessary damage & tripping of transformer shall be avoided.

•Customer Satisfaction

Implementation of Trolley Mounted mobile sub-station for emergency will help in reduction of consumer complaint, redressal time & better consumer satisfaction.

•Other Benefits

Presently, the failure rate of Distribution Transformers in the town is 22%. It is expected that the failure rate will be reduced to 6% after completion of these works.

Project Area Assets Detail.Kesco

Details of EHV Sub-stations feeding project area

Sl. No.	Name of EHV Substation	Voltage Ratio	EHV Transformer Details		Capacity (MVA)	Maximum Demand (MVA)
			Rating (MVA)	Nos		
1	R.P.H	220/33	2X60	2	120	128.57
2	Azad Nagar	132/33	3x40	3	120	141.88
3	Neubasta	220/132/33	3x40	3	120	123.71
4	Krishna nagar	132/33	3x40	3	120	110.46
5	Panki	220/132/33	3x40	3	120	122.23
6	Dada nagar	132/33	2x40	2	80	78.00
7	Arampur (Dedicated)	132/33	2x20	2	40	19.43
8	MSKP	132/33	2x40	2	80	55.71
9	Bihoor	220/132/33	2x40	2	80	18.57
10	Kanpur south	220/132/33	1x60	1	60	1.83
TOTAL				23	940	780.39

CIRCLE I

Details of 33/11 or 66/11 KV Sub-stations feeding project area

Sl. No.	Name of Substation	Voltage Ratio	EHV Transformer Details		Maximum Demand	
			Rating (MVA)	Nos	Capacity (MVA)	MVA / MVAR
1	Afcom kothi	33/6.6	1x5	1	5	3.1 / 1.20
2	Aloo mandi	33/6.6	(1x10+1x8)	2	18	12.80 / 7.88
3	Chapper	33/6.6	5+10	2	10	9.02 / 5.41
4	Chena park	33/6.6	(2x5)	2	10	15.8 / 9.38
5	Chamanganj	33/6.6	(10+5)	2	15	9.8 / 5.88
6	Jawahar nagar	33/6.6	8+10	2	13	6.45 / 3.87
7	Zareeb chowki	33/11	(5+10)	2	15	11.9 / 7.14
8	B.S. park	33/11	2x10	3	25	13 / 7.76
9	Bhairoghat	33/6.6	(3+10)	2	13	8.25 / 4.95
10	Company bag	33/11	1x5	1	5	3.3 / 1.50
11	Ganga bairaj	33/11	(10+5)	2	15	9.8 / 5.88
12	Jalsanathan	33/11/6.6	(2x5)	2	10	1.14 / 0.68
13	Medical college	33/11	(2x5)	2	10	6.43 / 3.88
14	RPH new PSS	33/11	(1x10)	1	10	12.95 / 7.77
15	Cycle market	33/6.6	(2x10)	2	20	18.62 / 11.17
16	Gwal Toli	33/6.6	Switching			
17	Mail Road	33/6.6	10+5	1	15	11.54 / 6.92
18	Muir Mill	33/11/6.6	(2x10+1x5)	3	25	13.48 / 8.09
19	RPH OLD	33/6.6	(1x10+2x5)	3	20	12.51 / 7.51
20	Phool Bagh	33/6.6	2x10	2	20	15.42 / 9.25
21	Sarsaiya ghat	33/11	10+5	2	15	7.9 / 4.74
22	Madadi Baba	33/11	1x5	1	5	2.61 / 1.37
23	ShaniDev Mandir	33/6.6	1x3	1	3	2.5 / 1.50
24	Dalmandi	33/6.6	1x10	1	10	8.57 / 5.14
25	Khas Bajar	33/6.6	10+5	2	15	6.97 / 4.18
26	Chanta Ghar	33/6.6	1x10	1	10	6.28 / 3.77
27	Zoo	33/11	1x5	1	5	2.36 / 1.42

Dedicated

SBI	33/11	1x1.5	1	1.5	
RBI	33/11	2x5	2	10	

These Dedicated S/S use only for Load Calculation

Details of connection from EHV to 33/11 or 66/11 KV Sub-stations feeding project area

From EHV Substation	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (KM)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
R.P.H	R.P.H New	R.P.H New	0.2	XLPE	9.07	12.95
	Ganga Baira	Ganga Baira	2	DOG	8.86	9.8
	Zoo	Zoo	2	DOG	0.80	1.14
	Bhair Ghat	Bhair Ghat	1.3	DOG+XLPE	5.78	8.25
	B.S Park	B.S Park	6	DOG+XLPE	8.35	11.93
	R.P.H Old	R.P.H Old	0.1	DOG	8.76	12.51
	Phool Bagh	Phool Bagh	4.2	DOG+XLPE	10.79	15.42
	Dal Mandi	Dal Mandi	0.65	DOG	6.00	8.57
	Khas Bajar	Khas Bajar	4.5	DOG	4.88	6.97
	Muir Mill	Muir Mill	8.48	PILCA	9.44	13.48
Azad Nagar	Aloo Mandi	Aloo Mandi	14.45	DOG+XLPE	8.86	12.80
	Jareeb Chauki	Jareeb Chauki	7.5	DOG	8.33	11.9
	Chamanganj	Chamanganj	7.5	DOG	8.86	9.8
	Cycle market	Cycle market	9.5	DOG+XLPE	13.034	18.62

Table of interconnection of 33/11 or 66/11 KV Sub-stations feeding project area

33/11 or 66/11 KVSS	To 33/11 or 66/11 KVSS	Name of 33KV or 66KV feeder	Length of feeder (Km)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
1. Ganga Bairaaj	Jal sansthan	Jal sansthan	0.03	XLPE	0.798	1.14
2. GEF	Sarsaiya Ghat	Sarsaiya Ghat	0.06	XLPE	5.53	7.9
3. GEF	R.B.I	R.B.I	0.5	XLPE	1.827	2.61
4. B.S Park	Medical College	Medical College	0.5	DOG+XLPE	4.501	6.43
5. B.S Park	Jal Sansthan	Jal Sansthan	0.04	XLPE	0.798	1.14
6. B.P.H old	B.S Park	B.S Park	5	DOG+XLPE	0.77	1.1
7. Phool Bagh	Sarsaiya ghat	Sarsaiya ghat	0.02	XLPE	5.53	7.9
8. Dalmandi	Shani dev Mandir	Shani dev Mandir	0.02	XLPE	1.75	2.5
9. Dalmandi	Ghanta ghar	Ghanta ghar	0.65	DOG	4.396	6.28
10. Dalmandi	Jhadi Baba	Jhadi Baba	0.9	DOG+XLPE	1.827	2.61
11. Khas Bajar	Chappar	Chappar	1.12	DOG	6.314	9.02
12. Dargah Chauki	Jawahar Nagar	Jawahar Nagar	0.5	DOG+XLPE	4.515	6.45
13. Chausa ganj	Cheena Park	Cheena Park	16	DOG	10.92	15.6
14. B.S Park	Mail Road	Mail Road	0.1	XLPE	8.078	11.54

Table of 11 KV feeders emanating from 33/11 or 66/11 KV Sub-stations feeding project area

33/11 or 66/11 KVSS	Name & Capacity of Power Transformer	Name of 11 KV feeder	Type of conductor	Peak Demand (MVA)	Distribution Transformer Rating (KVA)	No.
Afeem kothi	5MVA	Eldico	DOG+XLPE	1.25	400	8
		Total				8
		Karwalo Nagar	DOG	1.71	100	1
					250	2
					500	2
		Total				6
		251	DOG+XLPE	1.71	250	1
					400	4
		Total				6
		S/S	XLPE	0.05	63	1
Aloo mandi	10 MVA	1) Main 68	XLPE+DOG	2.05	63	1
					250	4
					400	4
		TOTAL				9
		2) Sursa mandir	XLPE+DOG	2.85	63	1
					250	3
					400	7
					630	1
		TOTAL				12
		3) Bas mandir	XLPE+DOG	2.74	250	3
					400	8
		TOTAL				11
	8 MVA	1) Jhakar katti	UG XLPE	1.18	250	1
					400	1
		TOTAL				2
		2) M-68 DKP	DOG	1.37	250	1
					400	2
		TOTAL				3
		3) M-18 Copper ganj	UG XLPE	0.914	400	2
		TOTAL				2
		4) M-19 Laxmi pura	DOG+XL	1.76	400	3
					630	1
Chappar	5 MVA	5) Afimkothi/ M-67	DOG+XL	1.82		
		TOTAL				4
		Sub Total				43
		1) Meston Road	DOG	2.74	400	8
		TOTAL				8
		2) Dhankutti	XLPE+DOG	2.97	250	2
					400	6
					630	1
		TOTAL				9
	10 MVA	1) Halsi Road	XLPE+DOG	1.26	25	1
					250	1
					400	9
		TOTAL				11
		2) General ganj	PILKA+DOG	1.523	400	8
		TOTAL				8

		1) Chawal Mandi	XLPE	1.37	250	1
					400	5
		TOTAL				6
		2) Bhagat Singh	XLPE+D OG	2.28	63	1
					100	1
					250	1
					400	4
		TOTAL				7
		Sub Total				49
		1) NO.76	XLPE+D OG	1.37	63	2
					250	2
					400	5
					630	1
		TOTAL				10
		2) NO.74 to 104mm kothi switching s/s				
		TOTAL				
					63	1
		1) NO. 36	XLPE+D	1.37	250	5
					400	8
		TOTAL				14
		2) NO. 37	XLPE+D	0.228	400	3
		TOTAL				3
		3) NO. 38	XLPE+D	0.687	250	1
					400	4
		TOTAL				5
		Sub Total				32
		1) Plot no. 4	XLPE+D OG	1.88	400	7
		TOTAL				7
					25	1
					100	1
		2) Khudaghar	XLPE+D OG	3.54	250	5
					400	7
					630	2
		TOTAL				16
		1) Thana Feeder	XLPE+D	2.620	250	1
					400	10
		TOTAL				11
		Sub Total				34
		1) Gurudwara	XLPE+D OG	2.74	63	1
					100	3
					250	3
					400	10
		TOTAL				17
		2) 108	XLPE+D OG	2.28	250	4
					400	5
					500	1
		TOTAL				10
		1) S/S	XLPE+D	0.034	1000	1
		TOTAL				1
					100	1
		2) 54	XLPE+D	2.510	250	2
					400	9
					1000	1
		TOTAL				13
		Sub Total				41
		1) P Road	XLPE+D OG	4.38	100	2
					250	3
					400	14
					630	1
		TOTAL				20
		2) 226	XLPE+D	2.47	250	1
					400	9
		TOTAL				10
		3) 46	XLPE+D	1.9	400	9
		TOTAL				9
		4) 45	DOG	2.76	250	8
					400	6
		TOTAL				14
		5) 69/12	XLPE	1.14	400	4
		TOTAL				4
		Sub Total				57
		1) Tikuniya Park	DOG	4.19	100	8
					180	4
					250	3
					400	8
					630	2
		TOTAL				23

RPH New	10 MVA	2) 139	XLPE+DO	3.42	63	1	
					100	1	
					160	1	
					250	6	
					400	7	
					630	1	
		TOTAL					15
		3) Light House	DOG	0.19	100	1	
					250	1	
		TOTAL					2
		4) Cant 138	DOG+XL	2.66	100	4	
					250	3	
					400	7	
TOTAL					14		
5) Tilak Nagar	DOG	2.47	63	2			
			100	6			
			250	4			
			400	5			
TOTAL					17		
Sub Total					71		
JalSansthan	5 MVA	1) Bena Jhabar	DOG	1.14	250	4	
					400	1	
		TOTAL					5
	5 MVA	Dedicated					
		Dedicated					
		Sub Total					5
Medical College	5 MVA	1) Palm Koat	DOG	2.13	100	8	
					400	5	
					630	1	
		TOTAL					14
		2) Motijheel	DOG	2.89	160	2	
					250	2	
					400	8	
		TOTAL					12
	5 MVA	3) Rawatpur	XLPE+DO	1.33	400	6	
						6	
		4) JK Casner			250	1	
					TOTAL		
		5) Hallet	DOG	2.28	100	1	
					400	5	
					630	2	
TOTAL					8		
Sub Total					41		
Ganga Bairaj	5 MVA	1) Ganga Bairaj	DOG	0.095	400	1	
					TOTAL		
		2) Azad Nagar	DOG	4.76	63	4	
					100	6	
					160	1	
					250	3	
					400	12	
					630	1	
		TOTAL					27
		10 MVA	3) Vishnupuri	DOG	5.33	63	4
	100					6	
	250					5	
	400					10	
	1000					1	
	TOTAL					26	
	4) Mauni Ghat		XLPE+DO	5.33	63	2	
					100	21	
					250	2	
					400	9	
					630	3	
	TOTAL					37	
Sub Total					91		

Bhairo Ghat	10 MVA	3 MVA	Dedicated								
			2) 37	DOG	3.42	100	2				
						180	1				
						250	9				
						400	7				
			TOTAL					630	1		
			3) Bangala BPT					400	2		
			TOTAL						2		
			4) Vidhyut Swadagra					400	1		
			TOTAL						1		
			5) 8017					400	4		
			TOTAL						4		
Sub Total						27					
Company Bagh Switching	10 MVA	3 MVA	1) CSA	DOG	0.68	250	2				
						750	1				
						TOTAL			3		
			2) 142	DOG	2.05	100	2				
						250	6				
						400	2				
						630	1				
			TOTAL						10		
			3) 25 Main	DOG	2.280	25	1				
						63	1				
						100	2				
						160	1				
						250	6				
			TOTAL					400	7		
			TOTAL						18		
			Sub Total						31		
			B.S Park	10 MVA	3 MVA	1) NO. 25	DOG	1.33	250	3	
									400	5	
TOTAL									8		
2) Gangotri	DOG	5.71				63	1				
						100	5				
						160	4				
						250	17				
						400	10				
TOTAL							37				
3) Arya Nagar	XLPE+DO	3.61				100	14				
						250	6				
						400	8				
TOTAL							28				
4) Akash vani	XLPE	0.057				250	1				
						TOTAL			1		
						Sub Total			121		
10 MVA	3 MVA	5) Medical				DOG	3.23	100	5		
								250	1		
								400	12		
		TOTAL						18			
		6) Idgah				DOG	2.09	100	2		
								250	4		
								400	6		
		TOTAL						12			
		7) No. 137				DOG	2.85	100	2		
								160	4		
								250	4		
								400	6		
		TOTAL						16			
		8) S/S	XLPE	0.03	100	1					
					TOTAL			1			
Sub Total						121					
Phool Bagh	10 MVA	3 MVA	1) 4 No.	DOG+XLPE	2.05	100	5				
						250	1				
						400	5				
			TOTAL						11		
			2) 101	DOG+XL	4.57	100	2				
						250	2				
						400	8				
						630	2				
			TOTAL						14		
			3) 2 LIC	DOG+XL	2.28	100	3				
						400	5				
						TOTAL			8		
			10 MVA	3 MVA	4) 3 No.	XLPE+DO	1.14	250	1		
								400	3		
								500	1		
					TOTAL						5
					5) 5 No.	XLPE+DO	2.51	63	1		
								100	1		
400	5										
TOTAL			7								
6) 194 No.	XLPE+DO	4.34	250	10							
			400	16							
			630	10							

			TOTAL				28
			Sub Total				73
Sarsaiya Ghat	10 MVA	1) OEF(Dedicated)	DOG+XL				
		TOTAL					
		2) New Court	DOG+XL	0.209	250	1	
					400	1	
		TOTAL				2	
		3) ssp	DOG+XLP	3.14	100	2	
					400	1	
				1500	2		
	TOTAL				5		
	5 MVA	4) DM	XLPE+DO	1.44	100	1	
					250	1	
					400	3	
					630	1	
		TOTAL				6	
		5) 139	PILICA+D	0.512	400	5	
		TOTAL				5	
		6) Kachahari	XLPE+DO	2.32	250	4	
					400	5	
		TOTAL				9	
Sub Total					27		
Jhadi Baba		5 MVA	1) Feeder 98	XLPE+DO	1.71	160	1
					250	3	
					400	2	
	TOTAL				6		
	2) Feeder No. 102		XLPE+DO	1.04	250	1	
					400	2	
	TOTAL				3		
	3) Feeder No. 138		XLPE+DO	2.49	160	1	
					250	3	
					400	4	
	TOTAL				8		
	4) Feeder No. 139	XLPE+DO	1.4	100	1		
				250	2		
				400	2		
	TOTAL				5		
	S/S Feeder	XLPE	0.03	400	1		
	Total				1		
	Sub Total					23	
	R.B.I	5 MVA	1) Spare				
TOTAL							
2) Spare							
5 MVA		TOTAL					
		3) Kursala Hospital	XLPE	0.8	400	2	
		TOTAL				2	
		4) Reserve Bank	XLPE	2.17	1000	2	
		TOTAL				2	
		5) R B Colony	XLPE	0.38	400	1	
		TOTAL				1	
		6) S/S	XLPE	0.133	100	1	
		TOTAL				1	
Sub Total					6		
Shanidev Mandir	3 MVA	No.1	XLPE+PI LICA+D OG	3.14	100	3	
					400	5	
					630	1	
		TOTAL				9	
		No. 2	XLPE+PI LICA+D OG	1.04	250	1	
					400	2	
TOTAL				3			
Sub Total					12		
		Malia Park	XLPE+PI LICA+D OG	2.05	63	1	
					250	3	
					400	7	
		TOTAL				11	
	Birahana Road		XLPE+D OG	1.71	25	1	
					63	2	
					160	1	
					250	6	
					400	10	
	TOTAL				20		
	Nibahara	XLPE+DO	1.37	250	1		
				400	2		
TOTAL							

Dalmandi	10 MVA	Bhuse toli	PILICA+D	1.25	160	1
					400	4
					630	1
		TOTAL				6
		Hullaganj	PILICA+D	0.91	400	1
					630	1
		TOTAL				2
		Jhanjhariya	XLPE+DC	1.14	400	1
		TOTAL				1
		M 20	XLPE+DC	0.85	250	2
					400	1
		TOTAL				3
		M 223	XLPE	1.02	250	1
					400	2
		TOTAL				3
		Main 14	XLPE	1.02	250	1
					400	2
		TOTAL				3
		Sub Total				52
Khas Bjar	10 MVA	Kamla town	XLPE+DC	3.08	63	1
					250	3
					400	4
					630	1
		TOTAL				9
		Kahoo Kothi	XLPE+DC	2.51	250	2
					400	4
		TOTAL				6
	5 MVA	Bangali mohal	XLPE+DC	0.571	250	1
					400	2
		TOTAL				3
		Khas Bajar	XLPE	0.4	400	2
		TOTAL				2
		SIWala Pt	XLPE+DC	0.971	250	1
					400	1
					1000	1
		TOTAL				3
		No.26	XLPE+DC	1.14	63	2
					250	1
					400	1
					1000	1
		TOTAL				5
		Sub Total				28
Ghana Ghar	10 MVA	No. 1	XLPE+DC	1.94	63	1
					250	4
					400	3
		TOTAL				8
		No 2	XLPE+DC	1.14	250	2
					400	4
					630	1
		TOTAL				7
		No 3	XLPE+DC	1.17	400	4
					630	1
		TOTAL				5
		No 4	XLPE+PI	1.48	400	5
					250	1
		TOTAL				6
		Sub Total				28
Cycle Market	10 MVA	Dadarnia	DOG+PIL	4.22	100	1
					250	1
					400	9
		TOTAL				11
		Lalkaun	XLPE	4.57	160	1
					100	4
					250	3
					400	4
					630	1
		TOTAL				13
		Sisa Mau	XLPE	4.22	100	1
					250	2
					400	6
		TOTAL				9

		10 MVA	Bakar Mandi	DOG	4.57	250	2
						400	9
						630	1
			TOTAL				12
			Lakar Mandi	XLPE	4.57	100	1
						400	10
			TOTAL				11
			Sub Total				58
						100	1
						160	3
						250	1
						400	10
	Gwal toli(Switching)		Gwal toli	DOG+XL		1000	1
			TOTAL				16
			Sub Total				18
	Mall Road	10+5 MVA	Main 110	DOG+PIL	1.82	63	2
						100	1
						250	1
						400	4
			TOTAL				8
			Main 65	DOG+PI LICA+X LPE	2.57	100	4
						250	4
						400	2
			TOTAL				10
						25	1
						63	1
						100	3
						160	2
						250	2
						400	2
			TOTAL				11
			Old 26	PILICA+D	2.51	100	1
						400	6
			TOTAL				7
			Bebis	XLPE	2.51	63	1
						250	1
						400	1
			TOTAL				3
			New 26	PILICA+D	1.54	63	1
						100	1
						400	2
			TOTAL				4
			Sub Total				43
	Muir Mill	10 MVA	Cam Chamber	XLPE	1.142	100	1
						630	2
			TOTAL				3
		10 MVA	Mall Road 101	Pilica	1.33	100	1
						400	2
						500	1
			TOTAL				4
			Doodh Bangala	Pilika+DC	4.95	63	2
						100	3
						250	4
						400	9
			TOTAL				18
		5 MVA	Muir Mill	XLPE+DC	1.42	250	3
						400	2
			TOTAL				5
			Lal Imli	XLPE+DC	2.38	100	1
						250	1
						400	3
						1000	3
			TOTAL				8
			Sub Total				38
27	RPH Old	10 MVA	No-1	XLPE+DC	1.330	160	1
						250	2
						400	5
			TOTAL				8
			No.2	XLPE+DC	2.09	100	2
						250	2
						400	6
			TOTAL				10
		5 MVA	Feeder 77	DOG	4.92	100	2
						250	2
						400	6
			TOTAL				10
			Feeder to Gwal toli Switching				
			S/S feeder	XLPE	0.1904	250	1
			TOTAL				1

5 MVA	No.10	XLPE+DC	2.66	250	1
				400	4
	TOTAL				5
	May.85	DOG	2.66	160	1
				250	11
				400	9
	TOTAL				21
	Lal Imli	XLPE	3.04	1000	1
	TOTAL				1
	Sub Total				56
GRAND TOTAL				1095	

33/11 Sub-stations feeding project area

Sub-station	Voltage Ratio	EHV Transformer Details			Maximum Demand	
		Rating (MVA)	Nos.	Capacity (MVA)	MVA	MVAR
Dadanagar industrial s/s	33/11	(2X10+5)	3	25	19.42	11.65
Meeta sarai industrial s/s	33/11	(2x10)	2	20	16.85	10.11
Polymer industrial s/s	33/11	(2x10)	2	20	18.57	11.14
Govind nagar	33/11	(1X10+1X8)	2	18	14.28	8.57
Dabauli	33/11	(2X10+5)	3	25	16.57	9.94
Vidhut colony	33/11	(3X5)	3	15	11.16	6.70
Gumti industrial s/s	33/11	(1X10+1X8)	2	18	11.42	6.85
Kalpi road	33/11	(1x5)	1	5	4.2	2.52
Fazalganj	33/11	(10+2X8+2X6)	5	38	9.14	5.48
Ratanpur	33/11	(2X5)	2	10	6.45	3.87
Shastri nagar	33/11	(2X10)	2	20	17.3	10.38
B-block panki	33/11	5+8	2	13	8.2	4.92
W.B. Barra	33/11	5+2x10	3	25	18.5	11.1
Gujaini old	33/11	(2X5)	2	10	7.77	4.662
Tatya tope nagar	33/11	(1x5)	1	5	3.82	2.29

Dedicated

Udyog kunj industrial s/s	33/11	(1X10+1X5)	2	15		
Spat nagar industrial s/s	33/11	(1X5)	1	5		

These Dedicated S/S use only for Load Calculation

Connection from EHV to 33/11 or 66/11 KV Sub-stations feeding project area

From EHV Substation	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (KM)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
Dada nagar 132/33 kv	Dadanagar industrial s/s	Dadanagar industrial s/s	9+1	Dog+XLPE	54.6	78
	Meeta sarai industrial s/s	Meeta sarai industrial s/s	1.5	Dog	54.6	78
	Polymer industrial s/s	Polymer industrial s/s	3.5	Dog	54.6	78
	Gujaini old	Gujaini old	10	Dog	54.6	78
Naubasta 220/33 kv	Govind nagar	Govind nagar	15+1	Dog+XLPE	86.6	123.71
	Vidhut Colony	Vidhut Colony	4	Dog	86.6	123.71
	Dabauli	Dabauli	9.5	Dog	86.6	123.71
	Fazalganj	Fazalganj	13	Dog	85.561	122.23
Panki 220/33 kv	Ratanpur	Ratanpur	3	Dog	85.561	122.23
	Gumti	Gumti	15	Dog	85.561	122.23
	Shastri Nagar	Shastri Nagar	10	Dog	85.561	122.23
	B-block panki	B-block panki	2.5	Dog	85.561	122.23
MSKP 132/33 KV	W.B. Barra	W.B. Barra	5	Dog	25	35.71
	Tatya tope nagar	Tatya tope nagar	1	Dog	25	35.71

Interconnection of 33/11 or 66/11 KV Sub-stations feeding project area

From 33/11 or 66/11 KV S/S	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (Kj)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
GUMTI	Kalpi road	Kalpi feeder	2	Dog	2.863	4.09

11 KV feeders emanating from 33/11 or 66/11 KV Sub-stations feeding project area

From 33/11 or 66/11 KV S/S	Name & Capacity of Power Transformer	Name of 11 KV feeder	Type of conductor	Peak Demand (MVA)	Transformer Details	
					Rating (KVA)	Nos.
Dadanagar industrial s/s	25 MVA	Lohia Feeder	XLPE+Weasel	3.0476	63	1
					250	1
					400	3
		Dabauli West	XLPE+Weasel	0.76	250	3
					400	3
Total					11	
Meeta sarai industrial s/s	10	1) S/S Feeder	Weasel	0.0952	63	1
		2)Meeta Sarai	XLPE+Weasel	0.876	25	1
	63				1	
	250				7	
	10MVA		Total			

3	Polymer industrial s/s	10MVA	1)S/S	XLPE	0.0571	63	1
			Total				1
		10MVA	2) Thana Feeder	XLPE +Weasel	6.476	400	1
			Total			630	1
			Sub Total				3
4	Govind nagar	10 MVA	1) Nirala Nagar	XLPE+Weasel	3.61	25	1
						63	1
						100	1
						250	3
						400	14
			Total				20
			2)Chawla	Weasel + XLPE	4.11	63	1
						100	3
						250	1
						400	12
						630	2
			Total				19
		8 MVA	3)Parampurwa	weasel+XLPE	1.9	100	1
						250	2
						400	6
			Total				9
			4) Nirala Nagar 1	weasel+XLPE	2.66	63	1
						250	3
						400	8
			Total				12
			4)Nirala Nagar 2	weasel+XLPE	2.09	63	4
						250	3
						400	6
						500	1
						630	2
			Total				9
			Sub Total				69
5	Dabauli	10 MVA	1) Sub Station	XLPE	0.038	63	1
			Total				1
			2) South Feeder			100	1
						160	1
						400	11
			Total				13
		10 MVA	3)North Feeder	XLPE+Weasel	3.94	63	1
						100	1
						250	2
						400	9
						630	1
			Total				14
		5 MVA	4) New Gujaini	XLPE +Weasel	3.52	250	6
						400	5
							11
			5)Dabauli	XLPE +Weasel	2.85	63	1
						100	3
						250	3
						400	10
			Total				17
			6)Old Gujaini	XLPE +Weasel	3.18	250	3
						400	14
							17
			7)Gopalgreen and Ratanlal Nagar	XLPE +Weasel	4.7	63	12
						100	8
						250	12
						400	12
			Total				44
			Sub Total				117
6	Vidhut colony	5 MVA	1) Substation	XLPE	0.038	63	1
			Total				1
			2) Malikpuram	XLPE +Weasel	2.09	63	1
						100	1
						400	7
			Total				9
		5 MVA	3) Vidyut colony	Weasel	3.561	63 KVA	1
						250 KVA	1
						400 KVA	1
			TOTAL				3
			4)Charan Singh	Weasel	1.334	100	1
						250	4
						400	4
			TOTAL				9

		5 MVA	5) Barra-6	Weasel	2.38	100	1
						250	3
						400	8
			Total				12
			6) Old Barra -2	Weasel	2.38	100	2
						250	2
						400	6
			Total				10
			7) New Barra -2	weasel	3.19	250	4
						400	4
			Total				8
			Sub Total				52
Gumti industrial s/s	10 MVA		1) N Road	XLPE	0.952	400	1
			TOTAL				1
			2) Hanuman park	XLPE+DOG	1.9	160	1
						250	3
						400	6
						630	1
			TOTAL				11
	8 MVA		3) Gomti Plaza	XLPE+DOG	2.47	160	1
						250	4
						400	6
			TOTAL				11
			4) OM Nagar	XLPE+DOG	2.09	100	1
						250	1
						400	6
			TOTAL				8
			5) Jawahar Nagar	XLPE+DOG	2.285	250	2
						400	7
			TOTAL				9
			6) Sant Nagar	XLPE+DOG	2.285	400	5
						630	1
			TOTAL				6
			Sub Total				46
Kalpi road	5 MVA		1) Kalpi Road	XLPE	0.952	400	4
			TOTAL				4
			2) 505 kabi Road	DOG+ XLPE	1.23	100	1
						250	1
						400	1
			TOTAL				3
			3) Bamba Road	DOG+ XLPE	1.904	400	7
						630	1
			TOTAL				8
			Sub Total				15
Fazalganj	6 MVA		1) M 152	Weasel+XLPE	3.42	630	3
			TOTAL				3
			2) G 25 Railway	Weasel+XLPE	1.9	100	2
						250	6
						400	13
			TOTAL				21
	10 MVA		3) G 25 NEW	Weasel+XLPE	5.71	100	1
						250	3
						400	9
						630	2
			TOTAL				15
	8 MVA		4) Feeder 28	Weasel+XLPE	5.71	100	1
						400	3
			TOTAL				4
			5) G 24	DOG+ XLPE	0.38	400	1
			TOTAL				1
	8 MVA		6) G 23	Weasel+XLPE	0.38	250	2
						400	1
			TOTAL				3
			7) juit mill	Weasel+XLPE	0.51	250	3
			TOTAL				3
	6 MVA		8) G 21	Weasel+XLPE	6.66	250	2
						400	13
			TOTAL				15
						100	1
			9) M 159/160	Weasel+XLPE	3.8	250	4
						400	6
			TOTAL				11
			Sub Total				76

Ratanpur	5MVA	1)Purana Ratanpur	DOG+ XLPE	2.95	63	2
					100	1
					160	1
					250	15
					400	3
	TOTAL					22
	5 MVA	2)Ganga Ganj	XLPE+DOG	0.857	63	1
					250	5
					400	5
		TOTAL				11
		3)Naya ratanpur	XLPE+DOG	2.47	100	2
					250	2
					400	2
TOTAL				6		
4)Substation feeder	XLPE+DOG	0.076	63	1		
TOTAL				1		
Sub Total				40		
Shastri nagar	10 MVA	1) S/S feeder	XLPE	0.0952	63	1
		TOTAL				1
		2)G-25	XLPE+DOG	5.71	100	2
					250	7
					400	6
		TOTAL				15
		3)O- 26	XLPE+DOG	2.66	250	2
					400	8
					630	1
		TOTAL				11
	10 MVA	4)G-37	XLPE+DOG	2.09	250	5
					400	5
					630	1
		TOTAL				11
		5)G-38	XLPE+DOG	1.9	160	2
					250	4
					400	6
					630	1
		TOTAL				13
		6) 26/4	XLPE+DOG	2.285	160	1
					250	4
			400	3		
TOTAL				8		
Sub Total				59		
B-Block	5 MVA	1) ZPS FEEDER	XLPE+DOG	0.38	250	1
					400	1
		TOTAL				2
		2)S/S feeder	XLPE	0.95	63	1
		TOTAL				1
		3)IOC FEEDER	XLPE+DOG	1.33	100	2
					250	5
					400	3
				630	3	
	TOTAL				13	
	8 MVA	4)178 feeder	XLPE+DOG	1.619	63	3
					100	1
					250	3
					400	7
		TOTAL				14
		5)E-block	XLPE+DOG	3.8	63	4
					100	1
					250	1
					400	21
TOTAL				27		
6)248 No. Feeder		XLPE+DOG	1.14	63	1	
			100	2		
			400	5		
TOTAL				8		
W.B Barra	5 MVA	1)E,D Sector	XLPE+DOG	2.66	400	6
		TOTAL				6
		2)Damodernagar	XLPE+DOG	2.66	63	1
					250	2
					400	11
		TOTAL				14
		3)Jarauli	XLPE+DOG	4.19	63	1
					400	6
	TOTAL				7	
	10 MVA	4)A,B,C sector	XLPE+DOG	2.28	250	2
					400	5
					630	1
		TOTAL				8
5)H,I,j,k sector		XLPE+DOG	2.57	63	1	

14	Gujaini	10 MVA	TOTAL			400	6	
			TOTAL				7	
			6)Barra -2	XLPE+DOG	3.23	63	2	
						100	1	
						250	5	
		400				8		
		TOTAL				16		
		5 MVA	1)BARRA GRAM	XLPE+DOG	3.23	63	2	
						250	1	
						400	13	
			TOTAL				16	
			2)VARUN VIHAR	XLPE+DOG	2.57	250	4	
						400	8	
			TOTAL				12	
			5 MVA	3)CPWD	XLPE+DOG	0.38	400	2
							TOTAL	
				4) Barra 7	XLPE+DOG	2.57	400	10
		TOTAL						10
		15		Tatya Tope Nagar	5 MVA	1)Substation feeder	XLPE	0.076
TOTAL						1		
2) T.T. NAGAR	DOG+ XLPE		3.828			63	6	
						250	1	
						400	8	
TOTAL						15		
Grand Total						673		

CIRCLE 3

Details of 33/11 or 66/11 KV Sub-stations feeding project area

	Name of Substation	Voltage Ratio	Rating (MVA)	EHV Transformer Details		Maximum Demand	
				Nos	Capacity (MVA)	MVA	NVAR
1	Harrisganj	33/6.8	(1x5+2x10)	3	25	16.8	10.08
2	Ring road	33/11	(1x8+2x10)	3	28	26.6	15.95
3	HAL colony	33/11	(1x5)	1	5	4.5	2.70
4	Chabill purwa	33/11	(2x10+5)	3	25	24.8	14.88
5	Wajid pur	33/11	(1x10)	1	10	8.7	5.22
6	pokharpur	33/11	(2x10)	2	20	15.7	9.42
7	sanjai nagar	33/11	(2x5)	2	10	4.3	2.58
8	Kidwai nagar	33/11	(2x10+8)	3	28	15	9.00
9	Horseman bagh	33/11	(1x10)	1	10	9.9	5.94
10	Babu purwa	33/11	(1x10+1x5)	2	15	8.8	5.16
11	Chalis dukaan	33/11	(1x5)	1	5	5.9	3.54
12	Daheli sujanpur	33/11	(2x5+10)	3	20	18	10.80
13	Sujatganj	33/11	(10+5)	2	15	10.8	6.48
14	Koyla nagar	33/11	(10+5)	2	15	8.2	4.92
15	Highway city	33/11	(2x5)	2	10	3	1.80
16	Naubasta	33/11	(2x10+5)	3	25	21.9	13.14
17	Pashupati nagar	33/11	(2x5)	2	10	8.9	5.34
18	Hanspuram	33/11	(8+5)	2	13	9.1	5.46
19	Mandi parishad	33/11	(2x5)	2	10	7.08	4.25
20	Rooma	33/11	(2x5)	2	10	7.08	4.25

* Dedicated

1	HAL factory(dedicated)	33/11	(2X5)	2	10		
2	MES(dedicated)	33/11	(3x4)	3	12		
3	DMSRDE(dedicated)	33/11	(1X2+1x2.5)	3	4.5		
4	Air force(dedicated)	33/11	(2X5+1X3)	3	13		

These Dedicated S/S use only for Load Calculation

Details of connection from EHV to 33/11 or 66/11 KV Sub-stations feeding project area

From EHV Substation	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (KM)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
220/33 KV NAUBASTA S/S		Harisganj	9	DOG	11.78	16.8
		Horseman bagh	5	DOG	6.93	9.9
		Babu purwa	7	DOG	6.02	8.8
		Chalis Dukan	6	DOG	4.13	5.9
		Hanspuram	0.2	DOG	6.37	9.1
		Mandi parishad	1.5	DOG	4.956	7.08
		Naubasta	5	DOG	15.33	21.9
		Kdwai nagar	4.5	DOG	10.5	15
		Pashupati	0.7	DOG	6.23	8.9
		Harisganj	9	DOG	11.78	16.8
33/33 KV KRISHNA NAGAR S/S		HAL colony	0.7	DOG + XLPE	3.15	4.5
		Ring Road	3	DOG	18.62	26.6
		Chabiley Purwa	3	DOG	17.36	24.8
		pokharpur	4.2	DOG + XLPE	10.99	15.7
		Sanjay nagar	3	DOG	3.01	4.3
		Daheli sujanpur	3	DOG	12.6	18
		Koyla nagar	8	DOG	5.74	8.2

Details of interconnection of 33/11 or 66/11 KV Sub-stations feeding project area

From 33/11 or 66/11 KV S/S	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (Km)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
Koyla Nagar	Highway City	Highway City	3.5	XLPE+DOG	2.422	3.46
Harisganj	Sujat Ganj	Sujat Ganj	0.75	XLPE+DOG	7.329	10.47

Details of 11 KV feeders emanating from 33/11 or 66/11 KV Sub-stations feeding project area

From 33/11 or 66/11 KV S/S	Name & Capacity of Power Transformer	Name of 11 KV feeder	Type of conductor	Peak Demand (MVA)	n Transformer Details
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						Rating (KVA)	Nos.
1	HAL COLONY	5 MVA	Hal colony	DOG	0.59	400	2
			Total				2
			Shakti nagar	DOG	6.1	1000	1
						630	1
						400	2
						250	6
						100	
						63	1
			25	1			
			Total				18
			Sub Total				
2	HARISSGANJ	10	Railway	DOG	3.9	500	1
			OEF	DOG	0.39	250	1
			Krishna Hospital	DOG	0.79	400	1
			Rail bazar	DOG + XLPE	4.8	630	4
						400	2
						250	1
			Triveni nagar	DOG	4.22	630	1
						400	7
						100	1
						63	1
			25	3			
			S/S locoset supply	XLPE	1.3	63	1
			Total				24
		5	Parachute factory	Dog	2.5	750	2
						400	7
						250	1
						25	1
			Total				11
			Faithful ganj	Dog	7.1	400	7
						250	1
						25	1
			Total				9
			Meerpur	Dog	5.8	400	9
						250	1
						25	1
			Total				11
			Shanti nagar	Dog	2.8	400	6
						250	1
100	1						
25	2						
Total				10			
Sub Total						41	
3	RING ROAD	10MVA	MES dedicated	DOG	1.14		
			Total				
			33Y PAC	DOG	2.85	400	5
						250	4
						100	5
						25	1
			Total				12
			G - 31	DOG	4.19	400	13
						250	3
						100	1
			Total				17
		10 MVA	S/S dedicated	XLPE	0.04	63	1
			Total				1
			Shiv katra	DOG	3.809	400	12
						250	4
						63	1
						25	1
			Total				18
			Lal bangla	Dog+xlpe+pilca	5.71	400	11
		250				8	
		100				5	
		Total				24	
		8 MVA	G - 32	DOG	6.47	630	1
						400	11
250	9						
100	18						
63	3						
Total				42			

			Krishna nagar g - 35	DOG	3.8	400	5
						250	5
						100	1
			Total				11
4	BABUPURWA	10 MVA					125
			161 Anandpur	XLPE+dog+ weasel	3.6	400	10
						250	3
						160	1
						100	8
			Total				22
			162 Transport nagar	Weasel + XLPE+dog	3.2	400	8
						250	2
						100	1
			Total				11
			163 Munshipurwa	weasel+XLPE+dog	3.42	400	5
						100	2
						63	1
			Total				8
			Begumpura	weasel+XLPE+dog	4.19	500	1
						400	10
						250	3
						100	2
						25	2
			Total				18
			Sub Total				59
5	Chalis Dookan	5 MVA	Jungli devi	XLPE+ Weasel	3.26	250	1
						400	10
			Total				11
			Hanumaan	XLPE+Weasel	3.04	100	1
						250	3
						400	10
			Total				14
			Sub Total				25
7	Horseman Bagh	5 MVA	106	XLPE+ Weasel + dog	2.51	630	1
						400	6
						250	1
						100	2
						63	1
			TOTAL				11
			155	XLPE+ Weasel + dog	2.28	400	4
						250	2
						100	10
						63	2
			TOTAL				18
		10 MVA	154	XLPE+ Weasel + dog	2.85	400	5
						250	5
						100	2
						63	2
			TOTAL				14
			104	XLPE+ Weasel + dog	2.85	400	6
						250	4
						100	1
			TOTAL				11
			Station	XLPE+ Weasel + dog	0.11	400	3
						100	1
			TOTAL				4
			Sub Total				58
7	Kidwai nagar	2x10 MVA	Horseman bagh	XLPE+ Weasel + dog	3.04	250	2
						100	1
						63	6
			TOTAL				9
			Seva Ashram	XLPE+ Weasel + dog	3.23	400	2
						250	2
						100	10
						63	4
			TOTAL				18
		8 MVA	NLC	XLPE+ Weasel + dog	3.42	630	1
						400	6
						250	1
			TOTAL				8
			S/S	XLPE	1.428	63	1
			TOTAL				1
			Ajeet ganj	XLPE+ Weasel + dog	4.19	400	10
						250	3
						100	3
			TOTAL				16

13	Pokharpur	5 MVA	TOTAL				14
			5) Taad Bagaiya New	DOG+XLPE	3.42	250	5
						400	8
			TOTAL				13
		10 MVA	Sub Total				117
			1) Baniya Bazar	DOG	1.8	250	2
						400	4
			TOTAL				6
			2) Ompurwa	DOG+XLPE	4.95	100	4
						250	3
						400	8
			TOTAL				15
		10 MVA	3) Substation	XLPE			
			TOTAL				
			4) Defence Colony	DOG	3.42	100	3
						250	3
						400	7
			TOTAL				13
			5) Pokharpur	DOG+XLPE	4	100	4
						250	4
						400	13
			TOTAL				21
			6) Shivgodavari	DOG+XLPE	1.23	100	3
						250	1
						400	6
			TOTAL				10
			Sub Total				65
14	Sanjay Nagar	2x5 MVA	1) Sanjay Nagar	DOG	4.28	100	3
						250	3
						400	10
			TOTAL				16
15	Wazidpur	10 MVA	Sub Total				16
			1) Siddhnath Ghat	DOG	3.23	100	1
						250	2
						400	7
			TOTAL				10
			2) Dargahshareef	DOG+XLPE	1.9	250	1
						400	7
						630	1
			TOTAL				9
			3) Substation	XLPE		63	1
			TOTAL				1
		8 MVA	4) DurgaMandir	DOG	3.8	100	1
						250	4
						400	15
			TOTAL				20
			Sub Total				40
		8 MVA	1) Awas Vikas-II	DOG	2.85	250	4
						400	3
			TOTAL				7
			2) Baudh Nagar	DOG	0.952	25	4
						100	1
						250	5
						400	12
			TOTAL				22
			3) Awas Vikas-I	DOG	4.38	25	2
						63	2
						250	1
						400	12
			TOTAL				17
			4) Substation	XLPE		25	1
			TOTAL				1
			Sub Total				47
16	Mandi Parisar	5 MVA	1) Awas Vikas	DOG+WEASEL	1.9	63	4
						250	2
						400	7
			TOTAL				13
			2) Galla Mandi	DOG+WEASEL	2.09	25	6
						63	3
		5 MVA				100	3
						250	8
						400	7
			TOTAL				27
			3) Baudh Nagar	DOG+WEASEL	3.04	25	6
						100	1
						400	7
			TOTAL				14
			4) Substation	XLPE		63	1
			TOTAL				1
			Sub Total				55
17			1) Bus Stop	DOG+WEASEL	1.52	25	1
						63	1
						250	3

Pashupati Nagar	5 MVA	TOTAL				5
		2) Pashupati Nagar	DOG+WEASEL	1.8	250	3
					400	7
		TOTAL				10
	5 MVA	3) Yashoda Nagar	DOG+WEASEL	4.19	25	1
					100	1
					250	9
					400	8
		TOTAL				19
		4) Substation	XLPE		63	1
TOTAL				1		
Sub Total				35		
Naubasta	10 MVA	1) Kidwai Nagar	DOG+WEASEL	5.71	63	5
					100	12
					250	7
					400	8
		TOTAL				32
	5 MVA	2) Gulmohar Vihar	DOG+WEASEL	1.14	63	1
					250	1
					400	5
		TOTAL				7
		3) Nirala Nagar II	DOG+WEASEL	1.14	25	2
					63	8
					100	3
					250	2
					400	6
		TOTAL				21
		4) Nirala Nagar I	DOG+WEASEL	4	25	6
					63	7
					100	4
					250	11
					400	15
					630	1
		TOTAL				44
	10 MVA	5) Bara Devi	DOG+WEASEL	4.95	63	10
					100	12
					250	6
					400	7
					500	1
		TOTAL				36
		6) Basant Vihar	DOG+WEASEL	4.95	63	1
					250	2
					400	13
					630	1
		TOTAL				17
		Sub Total				157
	GRAND TOTAL				1115	

CIRCLE 4

Details of 33/11 or 66/11 KV Sub-stations feeding project area

Sl. No.	Name of Substation	Voltage Ratio	EHV Transformer Details			Maximum Demand	
			Rating (MVA)	Nos.	Capacity (MVA)	MVA	MVAR
1	Kalyanpur	33/11	(1x10+2x5)	3	20	12.97	7.78
2	Keshavpuram	33/11	(3x5)	3	15	13.71	8.23
3	Ambedkarapuram	33/11	(1x5)	1	5	10.88	6.53
4	Mahabalipuram	33/11	(1x10)	1	10	4.39	2.63
5	Sarvodaya nagar	33/11	(2x10)	2	20	11.11	6.66
6	Navin nagar	33/11	(2x10)	2	20	1.03	0.62
7	RTO	33/11	1x10	1	10	9.06	5.44
8	Vikasnagar	33/11	(1x10+1x5)	2	15	7.9	4.74
9	Bithoor	33/11	(1x5)	1	5	2.69	1.61
10	Indira nagar	33/11	(2x5)	2	10	18.5	11.10

* Dedicated

1	IIPR	33/11	(1x5)	1	5	11.29	6.774
2	IIT KESCO	33/11	2x5	1	10	7.4	4.44

* These Dedicated S/S use only for Load Calculation

Details of connection from EHV to 33/11 or 66/11 KV Sub-stations feeding project area

Sl. No.	From EHV Substation	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (KM)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
1	220/33 KV PANKI S/S	kalyanpur	kalyanpur	3	Dog	85.56	122.23
		keshavpuram	keshavpuram	3.2	Dog	85.56	122.23
		Vikas Nagar	Vikas Nagar	4	Dog	85.56	122.23
		IIPR	IIPR	7	Dog	85.56	122.23
2	220/33 KV BITHOOR S/S	Indira nagar	Indira nagar	8	Dog	13	18.57
		bithoor	bithoor			13	18.57
3	132/33 KV AZAD NAGAR S/S	naveen nagar	naveen nagar	7	Panther	99.316	141.88
		sarvodaya Nagar	sarvodaya nagar	8	Panther	99.316	141.88

Details of interconnection of 33/11 or 66/11 KV Sub-stations feeding project area

Sl. No.	From 33/11 or 66/11 KV S/S	To 33/11 or 66/11 KV S/S	Name of 33KV or 66KV feeder	Length of feeder (Km)	Type of conductor	Average Demand (MVA)	Peak Demand (MVA)
Nil							

Details of 11 KV feeders emanating from 33/11 or 66/11 KV Sub-stations feeding project area

Sl. No.	From 33/11 or 66/11 KV S/S	Name & Capacity of Power Transformer	Name of 11 KV feeder	Type of conductor	Peak Demand (MVA)	Transformer Details	
						Rating (KVA)	Nos.
1	AMBEDKAR PURAM	5 MVA	Feeder No. 2	XLPE+Weasel	2.28571	400	5
						250	1
			Total				6
2	KALYANPUR	10	1) Goa Garden	Weasel	3.809	25	2
						400	9
						250	1
			TOTAL				12
			2) E sector Nahria		3.809	250	1
						400	5
			Total				6
		5	3) Awas Vikas no.1	Weasel	3.619	250	2
						400	9
			Total				11
			4) S/S feeder	Weasel	2.57	63	1
			Total				1

5		5	5) kalyanpur		2.857	63	1			
						400	8			
			Total				9			
			6) Satyam vihar		0.7619	400	2			
Total							2			
3	KESHAV PURAM	5MVA	1) D.K. 1st	Weasel	2.285	63	2			
						100	1			
						250	2			
						400	14			
			Total				19			
		5MVA	2) D.K. 3rd	Weasel	2.667	63	1			
						250	2			
						400	2			
			Total				12			
			3) S/S	XLPE + Weasel	0.57	63	1			
		5 MVA	1) D.K. 2nd	Weasel	1.14	250	2			
						400	5			
			Total				7			
			2) Maswanpur	Weasel	3.809	400	8			
						250	4			
			Total				12			
			Grand Total				51			
			4	Mahabalipuram	10 MVA	1) substation	XLPE	0.0952	63	1
						Total				
2) Feeder no. 1	Weasel + XLPE	0.3809				400	1			
Total										
						400	4			
3) Feeder no. 2	weasel+XLPE	0.571				100	1			
						63	1			
						160	1			
Total							7			
5	Bithoor	5 MVA	4) Awas vikas no. 3	weasel+XLPE	1.428	400	10			
						630	2			
						63	2			
			Total				14			
			Grand Total				23			
			1) singhpur	XLPE+ Weasel	3.923	16 KVA	8			
						25 KVA	18			
						63 KVA	1			
						100 KVA	10			
						160 KVA	3			
6	Indra Nagar	5 MVA	2) Bithoor	XLPE+Weasel	2.495	250 KVA	10			
						400 KVA	3			
			Total				18			
			Grand Total				69			
			1) Maharshi dayanand vihar	DOG	1.0285	250 KVA	2			
						400 KVA	1			
			Total				3			
			2) nausheel dham	DOG	1.904	100 KVA	3			
						250 KVA	2			
						400 KVA	5			
5 MVA	3) New Azad nagar	DOG	3.561	63 KVA	1					
				250 KVA	12					
				400 KVA	5					
	TOTAL				18					
	4) Indra nagar	DOG	1.334	250 KVA	2					
				400 KVA	3					
TOTAL							6			

7	Vikas Nagar	5 MVA	GRAND TOTAL				36	
			1) HBTI	XLPE+ Weasel	1.009	250 KVA	2	
			TOTAL				400 KVA	1
								3
			2) Kanpur university	weasel	3.104	100 KVA	4	
						160 KVA	2	
						250 KVA	10	
						400 KVA	2	
						630 KVA	1	
						TOTAL		
		10 MVA	3) IRDT	WEASEL	0.38	63 KVA	1	
			TOTAL				250 KVA	8
			4) Vikas nagar	weasel	4.7047	63 KVA	3	
						100 KVA	11	
						250 KVA	11	
						400 KVA	5	
						630 KVA	1	
			TOTAL				31	
			5) Kheora	weasel	2.285	63 KVA	1	
						100 KVA	2	
						250 KVA	10	
400 KVA	2							
TOTAL					16			
6) Jalsanathan	weasel		0.952	63 KVA	1			
				100 KVA	3			
		400 KVA		4				
		250 KVA		4				
TOTAL				12				
GRAND TOTAL					87			
8	Naveen nagar	10 MVA	1) Substation	XLPE		63 KVA	1	
			TOTAL					
			2) Pandav nagar	DOG+ XLPE	4.19	25 KVA	2	
						63 KVA	2	
						100 KVA	10	
						250 KVA	4	
						400 KVA	8	
						630 KVA	1	
			TOTAL				27	
			3) Shivaii nagar	DOG+ XLPE	4.667	63 KVA	8	
						100KVA	4	
						160 KVA	2	
						250 KVA	5	
						400 KVA	12	
			TOTAL				31	
		10 MVA	4) 188-A	DOG+ XLPE	1.428	63 KVA	1	
						100 KVA	3	
						250 KVA	3	
						400 KVA	4	
			TOTAL				11	
			5) 188-B	DOG+ XLPE	3.523	25 KVA	2	
						100 KVA	3	
						250 KVA	6	
						400 KVA	8	
			TOTAL				19	
			6) 188-C	DOG+ XLPE	5.523	25 KVA	2	
						63 KVA	1	
						100 KVA	1	
250 KVA	7							
400 KVA	17							
TOTAL				28				
Grand Total					117			
		10 MVA	1) Sarvodaya Nagar	XLPE		25 KVA	1	
			TOTAL				1	
			2) P-Block	DOG	2.66	250 KVA	3	
						400 KVA	6	
							9	
			3) MP Mill	DOG	1.14	400	7	
			TOTAL				7	
			4) Geeta Nagar	DOG	3.32	250	4	
						400	10	
						TOTAL		

9	Sarvodaya Nagar	10 MVA	5) Sharda Nagar	DOG	4.38	100	4
						250	3
						400	9
			TOTAL				16
			6) Gurudev	DOG+ XLPE	2.66	100	9
						250	1
						400	5
			TOTAL				15
			7) Raniganj	DOG+ XLPE	1.9	250	1
						400	6
10	RTO	10 MVA	TOTAL				7
			1) Substation	XLPE		25 KVA	1
			TOTAL				1
			2) Regency	DOG+ XLPE	0.76	400	3
			TOTAL				3
						63	2
			3) Sarvodaya Nagar	DOG+ XLPE	1.61	100	1
						250	3
						400	8
			TOTAL				14
						63	3
			4) Lajpat Nagar	DOG+ XLPE	3.42	100	2
						250	6
						400	10
						630	1
			TOTAL				22

Quality Management System

1. The major equipment/material to be procured under this scheme shall be got inspected and tested as per relevant ISS/technical specification of Discom at the works of manufacturers by the inspection wing of KESCO. or by the third party. Only material which will meet the requirement of specification shall be accepted.

2. The implementing agency shall follow the Quality Assurance Program, which shall consist of the quality system and quality plans with the following details:-

(i) Quality System:

- The Structure of organization
- The duties and responsibilities assigned to staff ensuring quality of work.
- The system for ensuring quality workmanship
- The system for retention or records
- The arrangement of contractor's internal auditing
- A list of administration and work procedures required for achieving and verifying contract's quality requirements. These procedures shall be made readily available to the purchaser for inspection on request.

ii) Quality Plans:

- An out line of the proposed work and program sequence
- The structure of the contractors' organization for the contract
- The duties and responsibilities assigned to staff ensuring quality of work.
- Hold and notification points.
- Submission of engineering documents required by the specification
- The inspection of material and component of receipt
- Reference of the contractor's work procedures appropriated to each activity
- Inspection during fabrication /construction
- Final inspection and test.

Procurement Procedures/Guidelines

The work under this scheme shall be executed on turnkey contracts basis. The turnkey contract shall be awarded through open tender process. The tender notices shall be published in two leading national level Newspapers (One English and one Hindi) alongwith in Indian Trade Journal, New Delhi. The tender notices shall also be displayed on the official website of KESCO.. Open tenders for procurement of material and award of turnkey contracts shall be invited in two parts as per prevalent procurement policy of UPPCL. In part-1 of the tender, bidders are required to submit the earnest money, technical & commercial conditions and pre-qualifying conditions. Part-2 covers only prices of material/work. Part-1 of all the bidder shall be opened on notified date in presence of representatives of bidders. After scrutiny of part-1, part-2 of only qualified tenderers shall be opened on notified date in presence of representatives of bidders. The concerned purchase committee formed by KESCO. or UPPCL, as the case may be, shall take the decision for award of contract. Normally techno-commercially qualified lowest bid is considered for award of contract.

Activity Schedule

POWER FINANCE CORPORATION LTD.

Activity/Sub Activity	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1. Issue of NIT								
2. Award of Contract								
3. Supply of Material :33/11 KV SS or 66/11 KV New								
4. Supply of Material :33/11 KV or 66/11 KV SS Transformer								
5. Supply of Material :33/11 KV or 66/11 KV SS Augmentation								
6. Supply of Material :11 KV Feeder New								
7. Supply of Material :11 KV Feeder Augmentation								
8. Supply of Material :11 KV Feeder Augmentation								
9. Supply of Material :11 KV Feeder Augmentation								
10. Supply of Material :11 KV Feeder Augmentation								
11. Supply of Material :11 KV Feeder Augmentation								
12. Supply of Material :11 KV Feeder Augmentation								
13. Supply of Material :11 KV Feeder Augmentation								
14. Supply of Material :11 KV Feeder Augmentation								
15. Supply of Material :11 KV Feeder Augmentation								
16. Supply of Material :11 KV Feeder Augmentation								
17. Supply of Material :11 KV Feeder Augmentation								
18. Supply of Material :11 KV Feeder Augmentation								
19. Supply of Material :11 KV Feeder Augmentation								
20. Supply of Material :11 KV Feeder Augmentation								
21. Supply of Material :11 KV Feeder Augmentation								
22. Supply of Material :11 KV Feeder Augmentation								
23. Supply of Material :11 KV Feeder Augmentation								
24. Supply of Material :11 KV Feeder Augmentation								
25. Supply of Material :11 KV Feeder Augmentation								
26. Supply of Material :11 KV Feeder Augmentation								
27. Supply of Material :11 KV Feeder Augmentation								
28. Supply of Material :11 KV Feeder Augmentation								
29. Supply of Material :11 KV Feeder Augmentation								
30. Supply of Material :11 KV Feeder Augmentation								
31. Supply of Material :11 KV Feeder Augmentation								

कानपुर विद्युत आपूर्ति कम्पनी लिमिटेड

विषय:- आई0 पी0 डी0 एस0 योजना के अन्तर्गत केस्को कानपुर में विद्युत वितरण प्रणाली में सुधार हेतु बनाई गई डी0पी0आर0 के अनुसार रु0 575.28 करोड़ की योजना के लिये स्टेट डिस्ट्रीब्यूशन रिकार्ग कमेटी की रवीकृत हेतु प्रस्ताव।

केस्को कानपुर के अन्तर्गत कानपुर महानगर में विद्युत वितरण प्रणाली एवं निरालिंग में व्यापक सुधार हेतु भारत सरकार द्वारा घोषित आई0 पी0 डी0 एस0 के अन्तर्गत निम्न कार्य कराया जाना प्रस्तावित है। आई0 पी0 डी0 एस0 योजना के प्रथम चरण के अन्तर्गत कराये जाने वाले प्रस्तावित कार्य

SN	Particular	Unit	Qty	Project Cost from Iib & lic Rs. In Lac
A	33/11 KV S/S : New	Nos	21	5938.25
B	33/11 KV S/S : Additional Transformer	Nos.	10	1066.40
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	24	1124.51
D	Renovation & Modernisation of 33/11 kv SS	Nos.	30	1799.00
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	425	10120.03
F	33 KV feeders Reconductoring/Augmentation	Kms	225	5899.15
G	33 kv Line Bay Extension at EHV station	Nos	50	1192.50
H	11 kv Line : New Feeder/ Feeder Bifurcation	Kms	110	1292.07
I	11 kv Line : Augmentation/Reconductoring	Kms	60	262.26
J	Arial Bunched Cable	Kms	700	8346.25
K	UG Cable	Kms	40	2035.60
L	11 KV Bay Extension	Kms	0	0.00
M	Installation of Distribution Transformer	Nos.	662	9036.96
N	Capacity enhancement of LT sub-station	Nos.	600	2100.00
O	LT Line : New Feeder/ Feeder Bifurcation	Kms	80.29	867.13
P	LT Line : Augmentation/Reconductoring	Kms	50	46.00
Q	Capacitor Bank	Nos.	75	3392.00
R	HVDS	Nos.	0	0.00
S	Metering	Nos.	83900	1607.00
T	Provisioning of solar panel	Lot	20	29.00
U	RMU,Sectionalizer, Auto reclosures, FPI etc.	Lot	0	0.00
V	Others	Nos.	933	1474.14
	GRAND TOTAL			57,528.25

उपरोक्त आगणन रेस्पो के कार्यालय ज्ञाप सं0 128/RESPO/D&S/CS (2015-16) दिनांक 12.01.2015 के आधार पर तैयार किया गया है, जिसमें 3% कन्टीजैन्सी, 1.5% टी एण्ड पी एवं 21% टर्नकी फैक्टर सम्मिलित है।

यहाँ यह भी सूचनीय है कि प्रथम चरण की योजना एवं आगणन बी0ओ0डी0(केस्को) द्वारा पारित करा लिया गया है।

भारत सरकार द्वारा घोषित आई0पी0डी0एस0 योजना के अन्तर्गत कानपुर विद्युत आपूर्ति लि0 कानपुर में कानपुर नगर की विद्युत प्रणाली के सुदृढीकरण हेतु प्रथम चरण की कार्य योजना में अनुमानित लागत रु0 575.28 करोड़ की धनराशि निराग

(Handwritten Signature)

वास्तविक क्रियान्वयन के समय कार्य की लागत में 20% का विचलन हो सकता है। यह योजना कानपुर नगर के अगले 10 वर्षों तक विद्युत आवश्यकता की वृद्धि को ध्यान में रखकर बनाया गया है सन्दर्भित योजना के लिये भारत सरकार/पी0एफ0सी0 नई दिल्ली की शर्तों के अनुसार कार्य सम्पादित कराने हेतु अनुमोदित किया गया।"

उक्त कार्य किसी अन्य योजना में सम्मिलित नहीं किया गया है।

उक्त योजना हेतु निधारित फंडिंग पैटर्न निम्नवत होगा।

Funding Pattern: The funding mechanism is proposed as under:

Agency	Nature of support	Quantum of support (percentage of project cost)	
		Other than special category states	Special category states
Govt. of India	Grant	60	85
Discom contribution	Own fund	10	5
Lender(FIs/Banks)	Loan	30	10
Additional Grant from GOI achievement of prescribed milestones	Grant	50% of total loan component (30%) i.e. 15%	50% of total loan component (10%) i.e. 5%
Maximum Grant by GOI (including addition grant on prescribed milestones)	Grant	75%	90%

उपरोक्तानुसार आई0 पी0 डी0 एस0 के अन्तर्गत कानपुर महानगर में विद्युत वितरण प्रणाली के सुदृढीकरण हेतु रु 575.28 करोड का प्रस्ताव स्टेट डिस्ट्रिब्यूशन रिकॉर्म कमेटी विचारार्थ एवं अनुमोदनार्थ प्रस्तुत हैं।

(सेल्वा कुमारी जे0)
प्रबन्ध निदेशक, कोस्को



UP Power Corporation Ltd
Rural Electrification & Secondary System
Planning Organisation
 Shakti Bhawan Extn, 14-Ashok Marg
 Lucknow-226 00

e-mail- cgmrespocl@gmail.com

☎ : 0522-2287733

(Fax) : 0522-228787

No. 60 /R-APDRP/ RESSPO/

Dated: 03.03.15

To,

1. Principal Secretary (Energy), U.P. Government, Lucknow.
2. Managing Director, UPPCL, Lucknow.
3. Director (Finance), UPPCL, Lucknow.
4. Director (Commercial), UPPCL, Lucknow.
5. Director (Distribution), UPPCL, Lucknow.
6. Managing Director, KESCO- Kanpur.
7. Representative of Power Finance Corporation of India Ltd.
(Sri Vijay Agarwal)

Subject:- MINUTES OF MEETING OF DISTRIBUTION REFORMS COMMITTEE (DRC) FOR WORKS OF KESCO-KANPUR PROPOSED UNDER IPDS, HELD ON 26.2.2015 UNDER CHAIRMANSHIP OF PRINCIPAL SECRETARY (ENERGY) GOVT. OF U.P. & CHAIRMAN, U.P. POWER CORPORATION LTD. LUCKNOW.

Dear Sir,

A meeting of the Distribution Reforms Committee (DRC) for works proposed under Integrated Power Development Scheme for KESCO Kanpur was held on 26.2.2015 under chairmanship of Principal Secretary (Energy) govt. of U.P. & Chairman, U.P. Power Corporation Ltd. Lucknow.

I have been directed to send herewith the record notes of the said meeting for your kind information and necessary action.

Encl : As above.

Yours faithfully

(P.K. JOHARI)

Chief Engineer (RESSPO)

Copy for information to:-

1. Secretary, Ministry of Power, Govt. of India, New Delhi.
2. CMD, Power Finance Corporation, New Delhi.
3. Director (Distribution), Ministry of Power, Govt. of India, New Delhi

**MINUTES OF MEETING OF DISTRIBUTION REFORM COMMITTEE (DRC)
FOR WORKS OF KESCO-KANPUR PROPOSED UNDER INTEGRATED
POWER DEVELOPMENT SCHEME HELD UNDER THE CHAIRMANSHIP
OF PRINCIPAL SECRETARY (ENERGY), GOVT. OF U.P. & CHAIRMAN, UP
POWER CORPORATION LTD. LUCKNOW.**

The meeting of Distribution Reforms Committee constituted by Energy Deptt. Govt. of U.P. vide notification no.76/24-1-2015-100P/2008 dated 06.02.2015 was held on 26.02.2015 in Shakti Bhawan, Lucknow under the Chairmanship of Principal Secretary (Energy), Govt. of U.P. and Chairman, U.P. Power Corporation Ltd.

As per guidelines, issued by MoP, GoI in respect of Integrated Power Development Scheme (IPDS) vide circular no.26/1/2014-APDRP, dated 03.12.2014, the DRC has to monitor the scheme at the state level and is required to recommend the project proposal to the Ministry of Power/PFC after ensuring compliance of all the required formalities and to review the achievements of milestone and targets under the scheme.

DPR for the works to be carried out under IPDS scheme for KESCO- Kanpur has been submitted by Managing Director, KESCO- Kanpur vide proposal dated 23-02-2015. The abstract of above DPR is as below:-

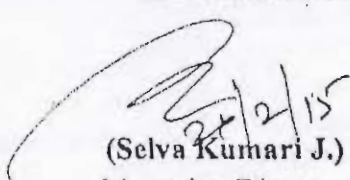
Sl. No.	Particular	Unit	Qty	Project Cost (Rs. Lac)
A	33/11 KV S/S : New	Nos.	30	7101.8
B	33/11 KV S/S: Additional Transformer	Nos.	11	1178.1
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	25	2734.1
D	Renovation & Modernisation of 33/11 KV S/S	Nos.	65	2568.7
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	755.00	18603.9
F	33KV feeders Reconductoring/ Augmentation	Km	526.00	17109.1
G	33 KV Line Bay Extension at EHV station	Nos.	91	2170.1
H	11 KV Line : New Feeder/Feeder Bifurcation	Kms	404.00	4697.1
I	11 KV Line : Augmentation/ Reconductoring	Kms	163.00	712.1
J	Arial Bunched Cable	Kms	1336.00	15773.1
K	UG Cable	Kms	50.00	2541.1
L	11 KV Bay Extension	Kms	0	0
M	Installation of Distribution Transformer	Nos.	1753	22764.1
N	Capacity enhancement of LT sub-station	No.	1200	1200.1
O	LT Line : New Feeder/Feeder Bifurcation	Kms	80.29	86.1
P	LT Line : Augmentation/Reconductoring	Kms	1000.00	920.1
Q	Capacitor Bank	Nos.	220	9980.1
R	HVDS	Nos.	0	0
S	Metering	Nos.	207800	369.1
T	Provisioning solar panel	Lot	50	7.1
U	RMU. Sectionaliser, Auto reclosures.FPI etc	Lot	0	0
V	Others	Nos.	2200	347.1
GRAND TOTAL(In lacs)				116,47

The above rates have been taken as per RESSPO order No. 128/RESSPO/CS(2015-16) dtd.12.01.2015 which includes 3% contingency, 1.5% T&P and 21% Tu factor.

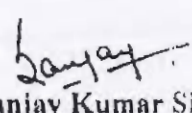
The committee discussed the matter and approved works for Rs.57, 528.25 la mentioned below:-

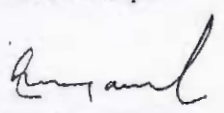
Sl. No.	Particular	Unit	Qty	Project Cost (Rs.)
A	33/11 KV S/S : New	Nos.	21	58
B	33/11 KV S/S: Additional Transformer	Nos.	10	10
C	33/11 KV S/S : Transformer capacity enhancement	Nos.	24	11
D	Renovation & Modernisation of 33/11 KV S/S	Nos.	30	175
E	New 33 KV new feeders/Bifurcation of feeders:	Kms	425	1012
F	33KV feeders Reconductoring/ Augmentation	Km	225	589
G	33 KV Line-Bay Extension at EHV station	Nos.	50	119
H	11 KV Line : New Feeder/Feeder Bifurcation	Kms	110	129
I	11 KV Line : Augmentation/ Reconductoring	Kms	60	26
J	Arial Bunched Cable	Kms	700	8340
K	UG Cable	Kms	40	2033
L	11 KV Bay Extension	Kms	0	
M	Installation of Distribution Transformer	Nos.	662	9636
N	Capacity enhancement of LT sub-station	No.	600	2100
O	LT Line : New Feeder/Feeder Bifurcation	Kms	80.29	807
P	LT Line : Augmentation/Reconductoring	Kms	50	46
Q	Capacitor Bank	Nos.	75	3392
R	HVDS	Nos.	0	0
S	Metering	Nos.	83900	1607
T	Provisioning solar panel	Lot	20	29
U	RMU, Sectionaliser, Auto reclosures.FPI etc	Lot	0	0
V	Others	Nos.	933	1474.1
GRAND TOTAL				57,528.2

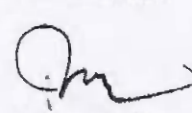
The committee recommended for submission of approved proposals to PFC/MoP.

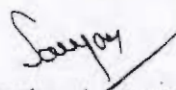

(Selva Kumari J.)
Managing Director,
KESCO-Kanpur


(K. M. Mittal)
Director (Distribution)
UPPCL-Lucknow


(Sanjay Kumar Singh)
Director (Commercial)
UPPCL-Lucknow


(S.K. Agrawal)
Director (Finance)
UPPCL-Lucknow


(A.P. Mishra)
Managing Director,
UPPCL- Lucknow


(Sanjay Agarwal)
Principal Secretary(Energy),
U.P. Govt. &
Chairman UPPCL