Report

on

Component wise AT&C Losses Reduction study in the State of Rajasthan

Volume I

Submitted by:

Medhaj Techno Concept Pvt. Ltd.

This report is prepared under the guidance of the Forum of Regulators

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DISCLAIMER

This report is a result of the studies carried out in four circles in Rajasthan. During the course of the study, real time data have been collected from the energy meters installed at various points in the High Tension (HT) and Low Tension (LT) network. The analysis in this report is purely based on the real time data i.e. meter reads collected from the feeder, Distribution Transformer (DT) and consumer meters. It is important to note that the real time data is collected at particular time and date. Besides, secondary data has been collected from various sources and after thorough analysis of such data key findings of the field studies are presented in this report. Further, some of the observations presented in the report are purely based on the reality perceived during the field studies in the circles.

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We also acknowledge the assistance rendered by Rajasthan Electricity Regulatory Commission (RERC) during the field studies. Thanks also due to the three DISCOMs in Rajasthan for lending support in conducting field studies in the four representative circles and providing relevant data from time to time.

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ABBREVIATION

AT&C losses	Aggregate Technical and Commercial losses
AVVNL	Ajmer Vidyut Vitran Nigam Limited
CBA	Cost Benefit Analysis
DF	Distribution Franchisee
DISCOM	Distribution Company
DT	Distribution Transformer
EHV	Extra High Voltage
FoR	Forum of Regulators
GDP	Gross Domestic Production
HLP	High Level Panel
HT	High Tension
HV	High Voltage
HVDS	High Voltage Distribution System
JdVVNL	Jodhpur Vidyut Vitran Nigam Limited
JVVNL	Jaipur Vidyut Vitran Nigam Limited
kV	Kilo Volt
kVAh	Kilo Volt Ampere hour
kWh	Kilo Watt Hour
LT	Low Tension
LV	Low Voltage
MF	Multiplying Factor
MoA	Memorandum of Association
MU	Million Unit
NGO	Non Government Organization
PF	Power Factor
PFC	Power Finance Corporation
R-APDRP	Restructured - Accelerated Power Development and Reform Programme
RCM	Revenue Cycle Management
SCADA	Supervisory Control and Data Acquisition
SERC	State Electricity Regulatory Commission

Executive Summary

Introduction

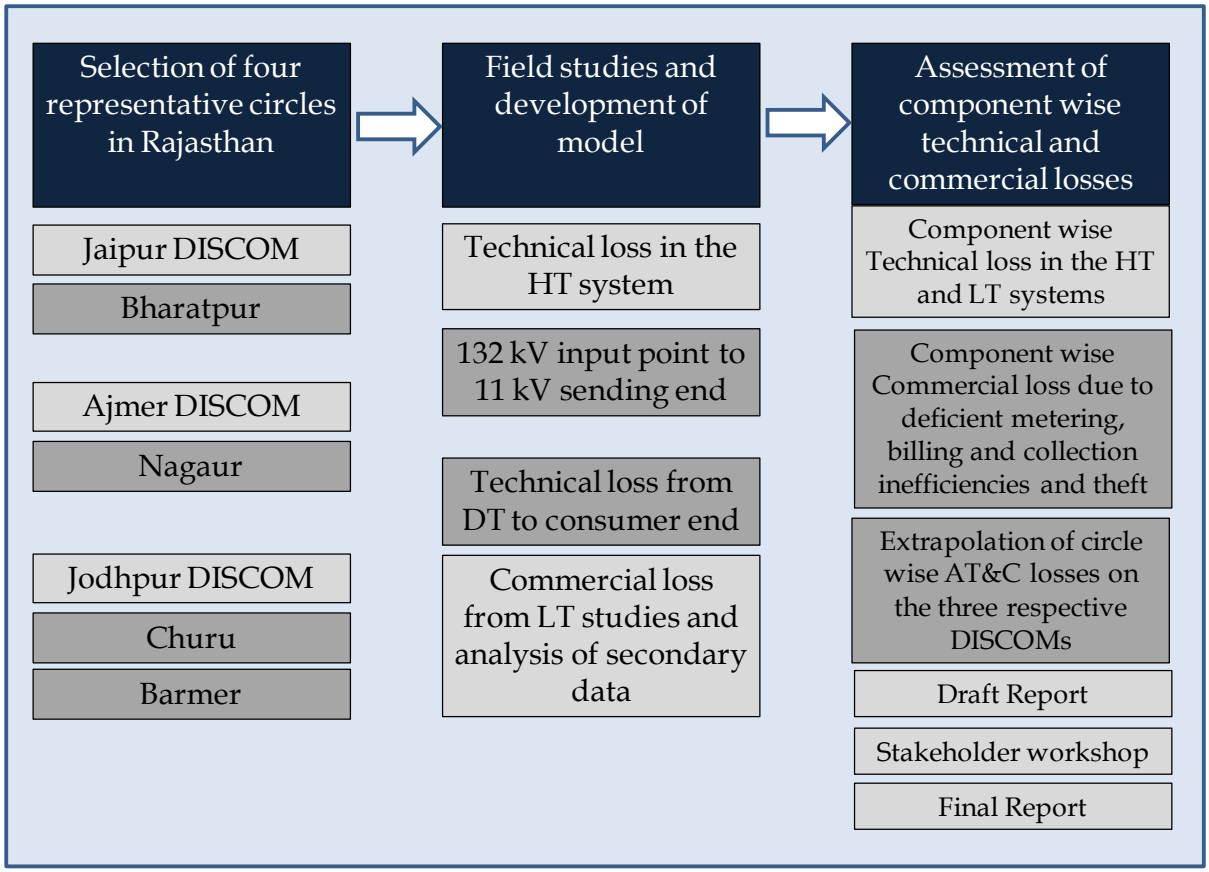
Medhaj Techno Concept Pvt. Ltd. has been entrusted the study to assess the component wise Aggregate Technical and Commercial (AT&C) losses in the State of Rajasthan. The scope of work of the study included the following:

- Identify the specific components of the AT&C losses.
- Compute the overall AT&C losses followed by calculation of component wise AT&C losses in the following manner:
    - **Technical loss:**
        - **At the EHV system (33 kV and above):** Difference of energy recorded by the energy meters at the injection points and energy sent out.
        - **At the 11 kV system of DISCOM:** Difference between the sending end energy and receiving end energy at consumer end plus energy recorded at LV side of distribution transformers (DTs) through sample meter read.
        - **Overall technical losses:** Extrapolate the results of the sample study to compute the overall technical losses in the distribution system.
    - **Commercial loss:**
        - Computation of overall commercial losses by taking into account the difference of overall AT&C losses and total technical losses of the circles.
        - Identify the various sub-components of commercial losses and estimate commercial losses for each of sub-components viz. loss on account of deficient metering, billing and collection inefficiencies and other identifiable components on the basis of sample study.
        - Assessment of energy loss due to theft by deducting the loss due to metering, billing and other identifiable component from the overall commercial loss.

Approach and methodology of the study

Approach

A step by step approach has been followed for assessment of the component wise AT&C losses in four representative circles in Rajasthan is presented below:



Methodology

The "Report on Loss Reduction Strategies" by the Forum of Regulators (FoR) outlined the methodology for computation of the component wise AT&C losses. Various tasks carried out under this study are as follows:

Task 1: Collection of data

- Collection of consumer category wise sales-mix data pertaining to all the circles in Rajasthan to select the four representative circles.

- Collection of secondary information such as the number of sub-stations and feeders, input energy, number of consumers, revenue billed and realized in the four representative circles.

Task 2: Selection of four representative circles in the State

For selection of the four representative circles, the sales mix of FY 2011-12 for all the circles in Rajasthan were analyzed broadly on the following four parameters:

(i) Sales mix of the circles (in percentage), which represents the sales mix (in percentage) of the respective DISCOMs;
(ii) Sales mix (in percentage) of the circles, which represents the sales mix (in percentage) of the Zone;
(iii) Circles having substantial share of the domestic and agriculture sales, as the technical and commercial losses in the domestic and agriculture categories are generally higher in comparison to the HT and other LT consumers; and
(iv) Existing usage of ground water as well as requirement of ground water for agricultural purpose in each district of Rajasthan has been analyzed. Since the agriculture consume nearly 38% energy in the State, this parameter has been considered for selection of the representative circles.

Based on the aforementioned selection parameters, the following four representative circles were selected for the detailed field studies:

- Bharatpur (Jaipur DISCOM);
- Nagaur (Ajmer DICOM); and
- Barmer and Churu (Jodhpur DISCOM)

Task 3: Field level study for assessment of AT&C losses in the representative circles

After finalization of the four representative circles, the field studies were carried out in three stages from June to September 2012:

- **High Tension (HT) study:** This involved collection of meter read from the 132/11 kV and distribution sub-stations as well as the consumers connected from 33 kV and 11 kV. The loss identified under this study was sub-transmission loss.
- **Low Tension (LT) study:** This involved assessment of technical and commercial losses from the Distribution Transformers (DTs) to the consumer premises. Energy loss identified under this study is the component wise technical and commercial loss in the LT system.
- **Agriculture study:** The agriculture study was carried out to cross check the actual connected load of the agriculture consumers with the sanctioned load as per the departmental records.

Task 4: Assessment of component wise technical and commercial losses

The methodology and formula prescribed in the Report on "Loss Reduction Strategies" by the Forum of Regulators (FoR) formed the basis for computation of the component wise AT&C losses. The methodology adopted for assessment of component wise AT&C losses is briefly described below:

<u>Assessment of technical loss in HT System</u>

Technical loss in the HT system has been considered as the difference of the energy input in the 132 kV system and sent out to the 11 kV feeders i.e.:

Total energy received from 110 kV sub-stations	= X1
Total energy sent out from 33/22/ 11kV feeders to the consumers	= Y1
Total energy sent out to other circles/DISCOM	=Y2
Total energy sent out	=YT =Y1+Y2
Energy lost in the HT System of DISCOM	= X1 – YT

Assessment of technical loss in LT System

Technical losses in LT system has been estimated on the basis of sample studies in the DTs. The formula for computing the line losses in the LT system is presented below.

A1 = 1st read of the DT meter

A2= 2nd read of the DT meter

MF1 = Multiplying Factor of the DT meter

B1= 1st read of all the consumers connected with the DT

B2=2nd read of all the consumers connected with the DT

MF2= Multiplying Factor of the consumer meter

Technical losses in the LT system = (A2-A1) X MF1 – (B1-B2) X MF2

Estimation of commercial loss

For computation of the commercial loss, the overall AT&C losses have been computed first. After determination of the total technical loss in the circles, the commercial loss has been arrived as the difference between the AT&C losses and the technical loss. The sub-component wise commercial loss i.e. commercial loss due to theft/pilferage, deficient metering, billing and collection inefficiencies have been determined in the following manner:

(a) Commercial loss due to deficient metering:

Actual consumption (kWh) of the consumers recorded in the field studies – Energy billed by the utility (kWh) of such consumers having defective meters as per records available with utility.

(b) Commercial loss due to billing inefficiency:

Actual energy consumption (kWh) of the consumers recorded in the field studies – Provisional Billing done by the utility (kWh) for such consumers as per records available with utility.

(c) Commercial loss due to collection inefficiency:

Energy Billed (kWh) – Energy Realized (kWh)

Where, Energy Realized = Energy Billed (kWh) * Collection Efficiency (%)

(d) Commercial loss due to theft/pilferage:

It is not possible to compute the extent of theft/pilferage accurately in the distribution system by any formula. Therefore, the extent of energy loss due to theft of electricity has been computed by deducting the component wise commercial loss mentioned from point no. (a) to (c) from the total commercial loss of the circle[1]. The formula for computing the energy loss from theft is given below:

Commercial loss due to theft/pilferage = Total Commercial Loss - (Commercial loss due to deficient metering + billing inefficiency + collection inefficiency)

Based on the findings from the field studies, key factors responsible for AT&C losses are identified and separated into three categories namely "A", "B" and "C". The factors which have major contribution to the AT&C losses and needed maximum attention were classified into category "A", the factors having medium contribution to the AT&C losses were classified into category "B" and the factors having minimum contribution to the AT&C losses were classified into category C. The said classification is given as follows.

Category A

(i) Commercial loss due to theft/pilferage of energy.

(ii) Technical loss in the LT system.

Category B

(iii) Commercial loss due to collection inefficiency.

(iv) Technical loss in the HT system.

Category C

(v) Commercial loss due to deficient metering, and billing inefficiency

[1] The same methodology has been prescribed in the FoR Report on "Loss Reduction Strategies"

Task 5: Preparation of draft report

Based on the outcomes of the field studies in the four representative circles in Rajasthan, a draft report was prepared and submitted to the FoR Secretariat for their review and comments.

Task 6: Stakeholder workshop

A stakeholder workshop was organized at the FoR Secretariat Office on October 03, 2013 to share the background, objectives and key findings of the component wise AT&C losses study in Rajasthan. The workshop was represented by the Officials of the FoR, PFC and the Jodhpur DISCOM. The stakeholder's suggestions, comments and recommendations on the study report were noted during the workshop.

Task 7: Preparation of Final report

After incorporating the comments received in the Workshop, the final report of the study in the State of Rajasthan has been prepared and submitted to the FoR Secretariat.

Component wise AT&C losses in the four circles in Rajasthan

Following Table depicts the AT&C losses in the four representative circles in Rajasthan during the study period i.e. from June to September 2012.

Table 1: AT&C losses in the four representative circles (June to Sept. 2012)

Particulars	Bharatpur	Nagaur	Churu	Barmer
Energy input in the circle (MU) [A]	326.52	769.24	484.81	316.95
Unit billed (MU) [B]	197.89	529.67	354.29	267.75
T&D losses (%) [C] = ([A]-[B])/[A]	39.39%	31.14%	26.92%	15.52%
Revenue billed (` Crore) [D]	88.18	162.35	124.12	104.35
Revenue realized (` Crore) [E]	76.38	149.36	111.76	94.59
Collection efficiency (%) [F]=[E]/[D]	86.62%	92.00%	90.04%	90.64%
AT&C losses (%) [G] = ([A]-([B]*[F]))/[A]	**47.50%**	**36.65%**	**34.20%**	**23.43%**

Source: Jaipur DISCOM, Ajmer DISCOM, Jodhpur DISCOM and Field Studies

Table 1 shows that the AT&C losses in the four circles were in the range of 23.43% to 47.50%.

The AT&C losses in Bharatpur circle were highest among the four representative circles. The circle has highest T&D losses at 39.39% and collection efficiency of 86.62% (lowest among the four representative circles). As a result, the AT&C losses of the circle during the period of study were 47.50%.

The AT&C losses in Nagaur circle were 36.65% (second highest among the four representative circles). Total energy billed in circle was 529.67 MU against the energy input of 769.24 MU, which resulted T&D losses of 31.14% (second highest among the four representative circles). The circle had an average collection efficiency of 92.00%.

The AT&C losses in the Churu circle were 34.20% (third highest among the four representative circles). The T&D losses in the circle were 26.92% (third highest among the four representative circles). The collection efficiency of the circle was 90.04% (third lowest among the four representative circles).
Barmer circle has the lowest AT&C losses among the four representative circles i.e. 23.43%. The T&D losses in the circle were 15.52% (lowest among the four representative circles) and the collection efficiency of 90.64% (second highest among the four representative circles).

Component wise technical loss in four circles in Rajasthan

To measure the technical loss in the HT and LT systems, field studies were conducted from June to September 2012. The information/data collected from the field studies were analyzed as per the methodology described in the "Loss Reduction Strategies" Report of FoR. Table 2 illustrates the component wise technical loss of the four representative circles.

Table 2: Component wise technical loss of the four circles (June to Sept. 2012)

Particulars	Bharatpur	Nagaur	Churu	Barmer
Technical loss in the HT system (%) [A]	4.14%	5.19%	4.41%	4.73%
Technical loss in the LT system (%) [B]	9.22%	8.26%	8.77%	6.24%
Total technical loss [C]	**13.36%**	**13.45%**	**13.18%**	**10.97%**

Source: Field studies

Highlights of the technical loss computed in the four selected circles are as follows:

- The technical loss in the four representative circles was in the range of 10.97% to 13.45%.
- Lowest technical loss was observed in Barmer circle (10.97%) and highest in Nagaur circle (13.45%).
- The technical loss in the HT system varies between 4%-5% in the four representative circles.

Component wise commercial loss in the four circles in Rajasthan

The circle wise commercial loss as the difference between the AT&C losses and total technical loss is presented in the following Table.

Table 3: Commercial loss in the four representative circles (June to Sept. 2012)

Particulars	Bharatpur	Nagaur	Churu	Barmer
AT&C losses (%) [A]	47.50%	36.65%	34.20%	23.43%
Technical loss (%) [B]	13.36%	13.45%	13.18%	10.97%
Commercial loss (%) [C] = [A] – [B]	**34.15%**	**23.20%**	**21.02%**	**12.46%**

Source: Field Studies

As shown above:

- Highest commercial loss observed in Bharatpur circle (34.15%), followed by Nagaur circle (23.20%)

- The commercial loss in Churu circle was 21.02% and Barmer circle was 12.46% (lowest among the four representative circles).

The components of commercial loss for the four representative circles are shown in the following Table:

Table 4: Component wise commercial loss in the four circles (Sept. to Nov. 2012)

Particulars	Bharatpur	Nagaur	Churu	Barmer
Commercial loss due to deficient metering (%) [A]	1.82%	0.78%	2.10%	0.18%
Commercial loss due to billing inefficiency (%)[B]	0.15%	1.16%	1.74%	0.19%
Commercial loss due to collection inefficiency (%) [C]	8.11%	5.51%	7.28%	7.91%
Commercial loss due to theft /pilferage (%) [D]	24.07%	15.75%	9.91%	4.18%
Total commercial loss (%)[E] = SUM of [A] to [D]	**34.15%**	**23.20%**	**21.02%**	**12.46%**

Source: Field Studies

The component wise commercial loss analysis in the four representative circles shows that:

- In Bharatpur circle, the commercial loss due to theft/pilferage was highest i.e. 24.07% of the total energy input in the circle. Commercial loss due to collection inefficiency accounted for 8.11%. The commercial loss with respect to deficient metering and billing inefficiency were 1.82% and 0.15% respectively.
- In Nagaur circle, commercial loss on account of theft was 15.75%. The commercial loss due to deficient metering, billing and collection inefficiencies were 0.78%, 1.16%and 5.51% respectively.
- The commercial loss in Churu circle was mainly because of theft/pilferage of energy and average collection efficiency i.e. 9.91% and 7.28% respectively. The commercial loss in other sub-categories such as deficient metering and billing inefficiency accounted for 2.10% and 1.74% of total energy losses in the circle.
- In Barmer circle, commercial loss due to collection inefficiency contributed 7.91% energy losses in the circle. Commercial loss in other sub-components such as

deficient metering, billing inefficiency and theft contributed 4.55% of total energy losses in the circle.

During the Stakeholder workshop, the circle wise and components of technical and commercial losses were presented before the DISCOM representative of Rajasthan. The DISCOM representative has agreed on the component wise losses figures arrived in this study.

Extrapolation of AT&C losses on the DISCOMs

It was found during the field studies that the commercial loss in the industrial, commercial and other categories (railway traction, bulk supply, public lighting and water works) in the circles was around 5%. It can be inferred that around 95% of the commercial loss in the circles was mainly in the domestic and agriculture categories. Based on this consideration, 95% of the commercial loss in the circles has been allocated to the domestic and agriculture categories to extrapolate the commercial loss of each representative circle on the DISCOMs, respectively.

The commercial loss factor on account of energy sold to the domestic and agriculture categories in the circles has been computed. The objective of computing the commercial loss factor is to work out a unique factor for each of the four circles that can be applied on the energy input of the State for extrapolation. To compute the commercial loss factor, the commercial loss with regard to the energy input in the circles has been computed and then divided by the ratio between the energy sold (MU) to the domestic and agriculture consumers and the total energy sold (MU) in the circles.

As the domestic and agriculture sales mix of the representative circles varies with the State, it was decided that 'range estimate' would be used to extrapolate the AT&C losses of the circles on the respective DISCOMs. The standard deviation between the domestic and agriculture sales mix in the representative circles and

those of the DISCOMs has been computed and the same has been used to compute the percentage of lower and upper limits of the commercial loss for the DISCOMs.
In the next step, the percentage of lower and upper limits of the commercial loss has been applied on the energy input (MU) in the DISCOMs to compute the commercial loss (MU) on account of energy sold to the domestic and agriculture consumers in the DISCOMs.

Since, it is assumed that that 95% of the commercial loss incurred due to energy sold to the domestic and agriculture consumers. An extrapolation factor has been computed to project the total commercial loss of the DISCOMs. The extrapolation factor is used to compute the lower and upper limits of the total commercial loss of the DISCOMs (MU).

After computing the total commercial loss of the State, the percentage of the same has been computed as the ratio between the energy input (MU) and total commercial loss (MU) of the State.

In the final step, the circle wise percentage technical loss then added on the lower and upper limits of the percentage commercial loss to arrive at the AT&C losses range of the State. It is assumed that the technical loss component of the State would remain at the same level as computed for the circles.

The AT&C losses range of the State as computed above is shown in the following Table:

Table 5: AT&C losses of the DISCOMs (June to Sept. 2012)

Particulars	JVVNL		AVVNL		JdVVNL	
	LL	UL	LL	UL	LL	UL
AT&C losses	38.19%	45.91%	24.12%	31.02%	29.74%	32.28%

LL: Lower Limit
UL: Upper Limit

The study has also compared the AT&C losses computed in this study, reported by the DISCOMs and submitted to PFC by the DISCOMs. The following Table shows the difference between these AT&C losses figures.

Table 6: Comparison of AT&C losses figures of the DISCOMs

Particulars	JVVNL		AVVNL		JdVVNL	
	LL	UL	LL	UL	LL	UL
Computed in the study (June to Sept. 2013)	38.19%	45.91%	24.12%	31.02%	29.74%	32.28%
Reported by the DISCOMs (June to Sept. 2013)	29.81%		18.35%		31.31%	
Submitted to PFC (FY 2011-12)	23.18%		28.12%		23.82%	

It can be seen that the range of AT&C losses computed in this study are higher than that of reported by the DISCOMs. The reason of such difference would be methodology adopted for computation of AT&C losses in this study. Other reason could be the DISCOMs may under-stated their AT&C losses.

The AT&C losses figures submitted to PFC has captured all the seasons in FY 2011-12. Whereas, the AT&C losses figures computed in this study and reported by the DISCOMs covered only four months data i.e. June to September 2013.

Recommendations and way forward

The study proposes a set of recommendations based on the component wise AT&C losses analysis from the field studies. The recommendations proposed in this report have been categorized in three buckets – "A", "B" and "C" in order of their importance. A loss reduction framework based on the "ABC" analysis is proposed in the following Table.

Table 7: ABC framework for the proposed interventions to reduce the AT&C losses

Components of AT&C losses	Energy loss range in the representative circles	Interventions proposed
Category A		
(i) Commercial loss due to theft/ pilferage of energy *(The DISCOMs should treat this as the priority area for loss reduction as the existing losses could be reduced in the short and medium time period. To reduce these losses, minimum capital investment will be required. The DISCOMs need to strengthen its existing commercial practice.)*	*4.18% (Barmer) to 24.07% (Bharatpur)*	Identify and regularizing the un-metered and flat rate agriculture consumers to reduce agriculture theft. Short and medium term interventions such as metering of the un-metered consumers, regular vigilance check to reduce the energy theft in unmetered connections other than agriculture. Load shedding to be implemented first in the high loss areas in case of shortage of electricity. DISCOMs may implement community metering system to create accountability on the consumers to assist the DISCOMs in detecting energy theft. Differential tariff by way of higher tariff in the high loss areas to be proposed to the regulator for approval in medium term.
(ii) Technical loss in the LT system *(The DISCOMs should also treat this as one of the priority areas for reduction of energy losses. Substantial capital investment would be required*	*6.24% (Barmer) to 9.22% (Bharatpur)*	Medium and long terms interventions to reduce the loss through implementation of the Ariel Bunched Cabling (ABC) and Advanced Metering Infrastructure (AMI).

Components of AT&C losses	Energy loss range in the representative circles	Interventions proposed
to minimize the technical loss in the LT system.)		Improve the LT/HT ratio in the circles, where the losses are high.
Category B		
(iii) Commercial loss due to collection inefficiency *(The DISCOMs could strengthen its billing and collection department to reduce this energy loss in the short time period.)*	*5.51% (Nagaur) to 8.11% (Bharatpur)*	Short term measures to reduce the commercial loss due to collection inefficiency by way of linking the incentive for the staff with the increase in the billing and collection efficiency. To implement this scheme the DISCOMs should develop Key Performance Indicators (KPIs) and award scheme for the staff with an objective to reduce the commercial loss. In addition, the DISCOMs may consider installing pre-paid meters in the medium and long terms.
(iv) Technical loss in the HT system *(The DISCOMs should take initiatives to reduce the technical loss in the HT system in the medium and long term. Substantial capital investment would be required to minimize the technical loss in the HT system.)*	*4.14% (Bharatpur) to 5.19% (Nagaur)*	In addition to the existing Feeder Renovation Program and implementation of HVDS system in the agriculture category, the DISCOMs should further looked into augmentation of new assets, load balancing etc.
Category C		
(v) Commercial loss due to deficient metering, and billing inefficiency *(The DISCOMs could strengthen its billing and collection department to reduce this energy loss in the short time period.)*	*0.15%(Bharatpur) to 2.10% (Churu)*	Short term measures to reduce the commercial loss due to collection inefficiency by way of linking the incentive for the staff with the increase in the billing and collection efficiency. In addition, the DISCOMs may consider installing pre-paid meters in the medium and long terms.

Interventions recommended in the short medium and long terms in the high energy loss areas (Category "A" Issues)

1. **Regular vigilance check:** The DISCOMs should conduct regular vigilance check in the rural and urban areas to identify un-metered connections and regularize them in a time bound manner. The DISCOMs should conduct impromptu vigilance raids, where the energy loss is higher or revenue realization is very less.

2. **Community metering:** This type of arrangement can be implemented in the slum areas, where the entire slum community would be metered at a single location in public view (where tempering is difficult) and the whole community is billed based on the consumption determined by their individual meter read. The DISCOM will provide bulk supply to a single community meter and based on the meter read of the community meter the DISCOM will bill the consumers. The consumers on the other hand would share the billing amount based on their individual meter reading. If one consumer pilfers energy, it will result in the remaining members of the community paying more than their actual share of energy bill, which in turn would create peer pressure for not doing this.

3. **Implementation of load shedding first in the high loss areas in case of shortage of electricity:** The DISCOMs should consider implementing load shedding first in the high loss areas in case of shortage of electricity. This will built awareness among the consumers in the high loss areas that due to high energy loss, the DISCOMs are forced to implement load shedding in their areas and in turn would create pressure on the consumers involved in theft of energy for not doing the same.

4. **Implementation of differential tariff by way of higher tariff in the high loss areas:** The DISCOMs should propose differential tariff by way of higher tariff in the high loss areas. Higher tariff would force the consumers in the high loss areas to reduce theft of energy.

5. **Aerial Bunched Cabling (ABC):** To reduce the direct theft from the LT line by hooking, ABC in all densely populated localities should be implemented.

6. **Implementation of Advance Metering Infrastructure (AMI):** AMI system allows the utility to monitor the consumption of individual consumer at specific intervals (15 minutes) and will reduce the tendency of tempering or "by-passing" the meters.

7. **Improve the HT/LT ratio in the distribution system:** It is observed that one of the reasons for high technical loss in the LT system in Bharatpur, Nagaur and Churu circles is because of higher LT/HT ratio as compared to Barmer circle. For example, LT/HT ratio in Bharatpur, Nagaur and Churu circles was 0.84, 0.71 and 0.73[2] (FY 2011-12) respectively. Whereas, the LT/HT ratio in Barmer circle was 0.54. Consequently, the technical loss in the LT system in Barmer circle was low. Therefore, it is recommended that the DISCOMs should focus on reducing the LT/HT ratio in their future distribution network planning.

Interventions recommended in the short and medium terms to reduce commercial loss (Category "B" and "C" Issues)

8. The DISCOMs in Rajasthan should consider implementation of incentive/disincentive scheme by way of linking the incentive for the staff with the increase in the billing and collection efficiency. To implement this scheme the DISCOMs should develop Key Performance Indicators (KPIs) such as (a) increase in number of meter readings per meter reader (b) Increase in number of disconnection of the defaulting consumers, (c) reduction of time for replacing the defective meters, and (d) reduction of commercial loss. The KPIs should also indicate the targets for the staff and will be awarded as per their actual performance vis-à-vis the targets given in the KPIs.

[2] Source: Form P-6 submitted to the RERC by the DISCOMs

9. **Prepaid metering:** The un-metered and flat rate consumers should be encouraged for prepaid meters. Suitable rebate could be offered to the consumers opting for prepaid meters.

Interventions recommended in the long term to reduce technical loss (Category "B" Issues)

10. **Augmentation of new distribution assets:** In addition to the FRP and HVDS system for the agriculture consumers, the DISCOMs in Rajasthan should consider augmenting new distribution assets, where the HT losses are high. Augmentation of new assets

Other recommendations

11. **Component wise AT&C losses analysis:** The component wise AT&C losses analysis would provide a clear insight on the energy losses of the DISCOMs in Rajasthan. It is recommended that the DISCOMs in Rajasthan should adopt the component wise AT&C losses method to compute and report its energy losses. The component wise AT&C losses will not only provide the component and sub-component wise energy losses but can also used as a strategic tool for monitoring and framing future loss reduction initiatives. From the component wise AT&C losses, the DISCOMs can easily identify the high loss prone areas and frame their future loss reduction initiatives accordingly.

12. **Suggestion for the future AT&C losses reduction studies:** The present period of the AT&C losses reduction study is envisaged for 6 months. In six months study, the seasonal factors affecting the AT&C losses could not be captured and also the study results will not be accurate. Therefore, it is suggested that the period for the future AT&C losses study should be increased to 18 months and out of that 12 months should be envisaged for field studies only.

1. Chapter 1: Background of the study

1.1 Introduction

The Aggregate Technical and Commercial (AT&C) losses in the distribution system comprises of two major components i.e. technical loss and commercial loss. The technical loss refers to the distribution network loss that is inherent in the delivery of the electrical energy. It includes losses in the conductors, transformers, switchgears and loss in the measurement system. The commercial loss is energy losses that are caused by external factors to the distribution system and is caused by direct energy theft, and deficiencies in the energy metering, billing and collection systems, etc.

The AT&C losses are one of the key indicators to gauge the performance of the distribution companies (DISCOMs). The technical loss in the distribution system is an engineering issue. The technical loss beyond limit represents shortcomings in the distribution system planning. The commercial loss, on the other hand is avoidable financial loss for the DISCOMs.

The DISCOMs with lower AT&C losses show the ability of the DISCOMs to convert the high proportion of the input energy to the distribution system into energy sales and also the managerial capability to collect revenue from the electricity consumers efficiently. High level of AT&C losses, on the other hand shows improper and inefficient utilization of the energy and poor revenue realization capability. Huge revenue gap, weak financial condition, high cost of electricity supply (services), poor collection efficiency are some of the key features of the DISCOMs with high level of AT&C losses.

At present, the energy losses percentage in India is much higher in comparison to other developing countries in the World. For example, in 2010 the energy losses in Philippines[3], China and Brazil[4] were 11.52%, 6.10% and 16.63% respectively.

[3] Source: World Development Indicators, The World Bank
[4] T&D loss, Source: World Energy Council

However, the percentage of national level AT&C losses in India was 27.15% in FY 2009-10, which means more than one fourth of the total energy produced in the country was lost due to technical and commercial reasons at the time when the country is reeling under severe power shortage and requires more energy to maintain its GDP growth. This leads to enhanced need for generation capacity in the country. This situation could otherwise be avoided, if the energy losses in the distribution system are reduced to a level at par with the international level. Thus, reducing the AT&C losses would not only contribute in reducing the need for new generation capacity but also reduce the cost of supply of the electricity to the end users.

To address this issue, the Government of India has launched the Restructured - Accelerated Power Development and Reform Programme (R-APDRP) across all the States in India. Under this program a number of loss reduction schemes are implemented. The State Electricity Regulatory Commissions (SERCs) also set target and issues directives in the Tariff Orders of the DISCOMs to reduce the AT&C losses in their respective States. However, the desired outcomes of these initiatives are yet to materialize.

The Planning Commission, Government of India had constituted a High Level Panel (HLP) to review the financial position of the DISCOMs in India in July 2010. The HLP in its report has estimated that from 2006 to 2010, the accumulated losses of the DISCOMs[5] in India was ₹ 1, 79,000 Crore without considering subsidy and ₹ 82,000 Crore after subsidy received from the Governments. One of the main reasons for such huge financial losses was the high level of AT&C losses in the DISCOMs. The HLP report specifically pointed out that the current practice of reporting the AT&C losses have many deficiencies and the actual AT&C losses are much higher than reported by the DISCOMs.

[5] Excluding West Bengal, Chhattisgarh, Goa and the North Eastern States

In view of the above, a need was felt to initiate a study in various States in India to gauge the component wise AT&C losses and to identify the reasons thereof. In this regard, the Ministry of Power (MoP), Government of India (GoI) had initiated the study to assess the component wise AT&C losses in six States in India, i.e. Rajasthan, Tamil Nadu, Karnataka, Maharashtra, Uttar Pradesh and Madhya Pradesh. In this regard, the Power Finance Corporation (PFC) Ltd. was given the responsibility to appoint consultants to conduct detailed studies in six States. The Forum of Regulators (FoR) has been entrusted to monitor and review the activities of the consultant as well as facilitate the consultant in collection of data and conducting the field studies with the assistance of the SERCs and the DISCOMs.

Medhaj Techno Concept Pvt. Limited (hereinafter referred to as "consultant") was appointed by the PFC to undertake the study for the assessment of component wise AT&C loss reduction studies in the States of Uttar Pradesh, Rajasthan and Tamil Nadu.

This report highlights the component wise AT&C losses in the four representative circles in the State of Rajasthan, extrapolation of circle wise AT&C losses on the respective DISCOMs, main reasons that contribute the AT&C losses and proposed a set of recommendations to reduce the AT&C losses in a phase wise manner.

1.2 Objective of the study

The objective of the study was to segregate the AT&C losses into various components and sub-components and estimate the component wise AT&C losses in four representative circles in Rajasthan.

1.3 Value addition of the study

At present, the AT&C losses are computed on the three key elements – energy input, energy sold and the collection efficiency (as the percentage of revenue realized

against revenue billed). As highlighted in paragraph 1.1, a number of factors are responsible for the AT&C losses. From the total AT&C losses figure, it is difficult to judge that how much energy has been lost:

- In the HT and LT system of the DISCOMs i.e. technical loss;
- Due to billing and collection inefficiencies; and
- Theft and deficient metering.

While framing future loss reduction strategies, the DISCOM face the following questions, which the total AT&C losses figures will not provide answers.

Table 8: Value addition of the component wise AT&C losses study

Key questions faced by the DISCOMs to strategies their future loss reduction initiatives	Overall AT&C losses analysis	Component wise AT&C losses analysis
What are components involved in the AT&C losses in the DISCOMs ?	X	✓
What are the key areas, where the AT&C losses are higher ?	Partially	✓
Whether the existing initiatives taken by the DISCOMs are in the right direction or delivering the desired results ?	Partially	✓
What will be target areas in the short, medium and long term periods and how to align the existing and future loss reduction strategies accordingly ?	Partially	✓

Thus, it is evident that the DISCOMs with the analysis of the component wise AT&C losses could strategize, implement and monitor their loss reduction initiatives more efficiently.

The SERCs also faces similar questions at the time of approval of the future loss reduction trajectory for the DISCOMs. The component wise AT&C losses analysis would assist the SERCs in:

- Approval of the projected component wise loss reduction targets for the DISCOMs based on the component wise AT&C losses figures submitted by the DISCOMs.
- Monitoring of the loss reduction initiatives of the DISCOMs currently in progress and suggesting mid-term course corrections for the DISCOMs, if required.
- Prepare a road map on AT&C losses reduction for the DISCOMs.

This study has attempted to undertake a systematic analysis of the components and sub-components of the AT&C losses in the four representative circles in Rajasthan and estimate energy losses in each component and sub-component.

1.4 Scope of work

The scope of the study is mentioned below:

- Identification of specific components of the AT&C losses
- Computation of the overall AT&C losses in the four representative circles followed by calculation of component wise AT&C losses in the following manner:
    - **Technical loss:**
        - **At the EHV system (33 kV and above):** Difference of energy recorded by the energy meters at the injection points and energy sent out in the distribution system.
        - **At 11 kV system of DISCOM:** Difference between the sending end energy and receiving end energy at consumer end plus energy recorded at HV side of distribution transformers through sample meter read.

- **Overall technical loss:** Extrapolate the results of the sample study to compute the overall technical losses in the distribution system.

- **Commercial loss:**
  - Computation of overall commercial loss by taking into account the difference of overall AT&C losses and total technical loss of the circles.
  - Identify the various sub-components of commercial loss and estimate commercial loss for each of sub-components viz. loss on account of deficient metering, billing and collection inefficiencies and other identifiable components on the basis of sample study.
  - Assessment of energy loss due to theft by deducting the loss due to deficient metering, billing and collection inefficiencies from the overall commercial loss.

1.5 Limitation /constraints faced during the study

- **Seasonal impact on the AT&C losses:** The Energy requirement varies due to seasonal variation ambient temperatures and rainfall. For example, the energy requirement in the summer season increases due to increased need of energy by the domestic (for cooling purpose) and agriculture consumers (for irrigation). The field study was carried out during June 2012 to September 2012. Hence, the seasonal effect across the year could not be captured under this study. It would be useful to capture the diversity of demand and supply for computation of the component wise AT&C losses by studying the consumption patter of the consumers over full financial year.

- **Constrained in computing the technical loss from 11 kV feeder to the HV side of the DTs:** Since the meters on the DTs are installed only at the Low Voltage (LV) side, the actual line loss from 11 kV sending end to the High Voltage (HV) side of the DT could not be calculated from the field survey. For the same reason the actual transformation loss in the DTs could not be calculated. Further, the

meters on all the DTs connected to a particular 11 kV feeder are not installed. This posed a constraint in computing the technical loss from 11 kV feeders to the DTs from field survey and actual meter read.

- **Working status of the meters:** To compute the actual losses in the HT system, it is important that the meters installed in the sub-stations are working properly. The field study found that a number of meters installed at the sub-stations were not working. The study mandates the consultant to inform the concerned officers in the circles to replace the defective meters. After the first field visit to the sub-stations, it was requested (vide letters) to the concerned officers of the circles to replace the defective meters. In some cases, the meters were replaced by the department but in other cases replacement of the defective meters could not be done due to various reasons. Further, it was found that meters were not installed on a large number of DTs in all the circles. Due to absence of meters in the DTs, the LT study was limited to those areas, where the DT meters are working properly. The metering issue in the selected circles is discussed in detail in chapter 3 of this report.

- **Quality of information available with the circle office:** Consumer indexing in all the four circles studied in Rajasthan has not been done. In the absence of consumer index data, it was very difficult for us to establish how many consumers are connected to a particular DT. The core objective of the study is to carry out an independent survey of the LT consumers to compute the actual energy consumed by the consumers and the energy lost as a result of theft of electricity. However, due to absence of such kind of information, our LT studies were dependent on the information provided by the concerned departmental officials such as number of consumers and load profile of the consumers attached to a particular DT.

- **Departmental assistance during field study:** Assistance from the department was necessary during the field study in identifying feeder from a particular DT, consumer details etc. Also at the time of LT and agriculture surveys, at least a

departmental person could have accompanied the field engineers to avoid resistance from the consumers. The assistance received from the department was few and far between, which resulted into substantial delay in the field work.

1.6 Structure of the Report

The report is structured as follows:

- Chapter 2, deals with the Approach and Methodology followed for selection of the circles and computation of component wise AT&C losses.
- Chapter 3, provides findings from the field study in the four circles of Rajasthan
- Chapter 4, presents the detailed computation of component wise AT&C losses in the four circles in Rajasthan and reasons thereof.
- Chapter 5, presents the extrapolation of the circle wise AT&C losses on the respective DISCOM
- Chapter 6, presents the recommendations for reduction of AT&C losses and way forward.

2. Chapter 2: Approach and Methodology and selection of representative circles in Rajasthan

This chapter of the report explains the Approach and Methodology followed for selection of the representative circles as well as the method of computation of components of AT&C losses in these circles. The Forum of Regulators (FoR) has framed a detailed methodology for assessment of component wise AT&C losses in its "Loss Reduction Strategies" Report. As suggested by the FoR Secretariat, the methodology prescribed in the Report has been followed in the study.

Since, the study covers AT&C losses computation for four circles only, the focus was selection of four circles, which covers the features of the distribution system of the State. In consultation with the FoR Secretariat, a methodology was evolved to select the four representative circles in Rajasthan, which is explained in the next section of this chapter.

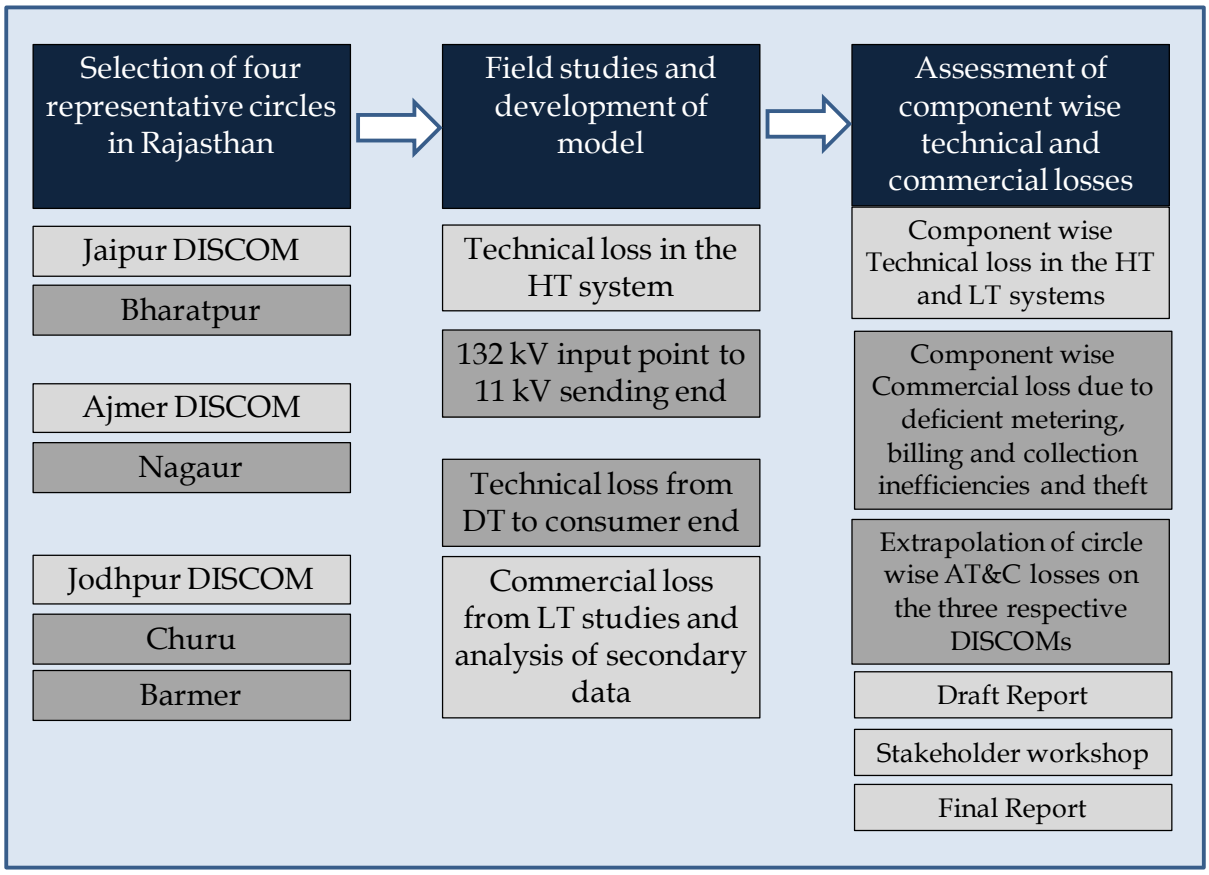
2.1 Approach of the study

The study focused on the following three broad tasks:

- Selection of four representative circles in the State to conduct detailed field studies.
- Conducting field studies in the four representative circles for assessment of component wise technical and commercial losses.
- Assessment of component wise technical and commercial losses based on the primary and secondary data collected from the four representative circles. A model has been developed to analyze the field data. The model has broadly taken into account the following calculations:
  - Technical loss in the HT and LT systems
  - Commercial loss in the areas of deficient metering, billing and collection inefficiencies, under-disclosure of agriculture load and theft/pilferage.
  - Extrapolation of circle wise AT&C losses on the State.

Following Exhibit depicts the step by step approach has been followed for assessment of the component wise AT&C losses in four representative circles in Rajasthan:

Exhibit 1: Approach of the study



2.2 Methodology of the study

The methodology of the study consisted of collection of existing/secondary data from DISCOMs, selection of four representative circles in the State, collection of field data and segregation of components of AT&C losses.

2.2.1 Task 1: Collection of data

The consultant collected the data in two phases:
The consultant collected the data in two phases:

- **Phase I:** Collection of consumer category wise sales data for all the circles for selection of the four representative circles in the State.
- **Phase II:** Collection of secondary information such as the number of sub-stations and feeders, input energy, number of consumers, revenue billed and collected in the four representative circles.

Assessment of the component wise AT&C losses involved analysis of large volume of technical and commercial data. At the commencement of the study, the consultant prepared and submitted a detailed list of the information required from the DISCOMs to compute the component wise AT&C losses. The same have been enclosed as "Appendix 1" in this report. However, some of the important information such as consumer billing database were not received from the department. To overcome this information gap, we have extrapolated the data received from the circles to compute the component of commercial loss.

2.2.2 Task II: Selection of four representative circles in the state

After completion of phase I of Task I mentioned above, the consumer wise sales mix for FY 2011-12 for each of the 39 circles in Rajasthan was analyzed. The consumer wise sales mix of all the circles in Rajasthan is enclosed as Annexure I.

The consumer sales mix of the circles was then evaluated on the following four parameters:

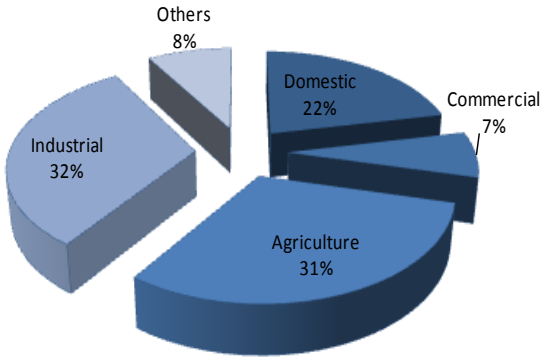
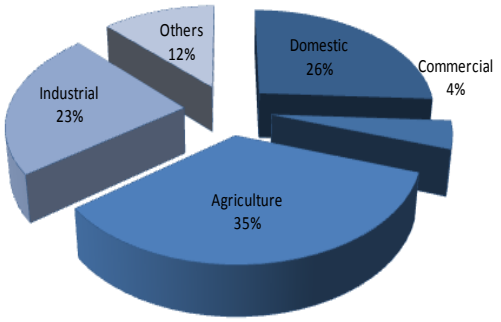
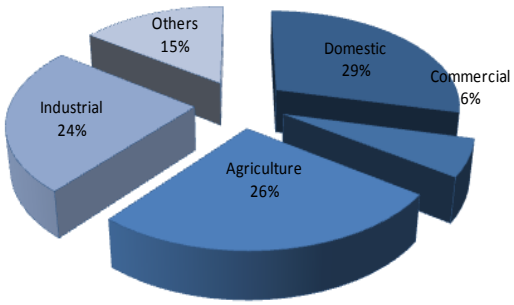
The basis for considering the "Consumer wise Sales Mix" as the parameter for selection of the representative circles is to segregate the consumer wise sales into three buckets i.e. metered consumers, un-metered consumers (excluding agriculture consumers) and agriculture consumers. Thereon, identify the component wise AT&C losses for each of the three consumer bucket (metered, un-metered and agriculture consumers) and recommend interventions required to reduce the AT&C losses of the DISCOMs.

At the time of selection of four representative circles in Rajasthan, both the FoR Secretariat and consultant came to an agreement that the circles with higher percentage of HT sales in

the circle cannot provide the detailed insights of the root causes of the AT&C losses for which the study has been envisaged for. In view of that more weightage was placed on those consumer categories, where the commercial loss is high, for example domestic and agriculture consumers. This will also help in identifying maximum reasons for commercial loss.

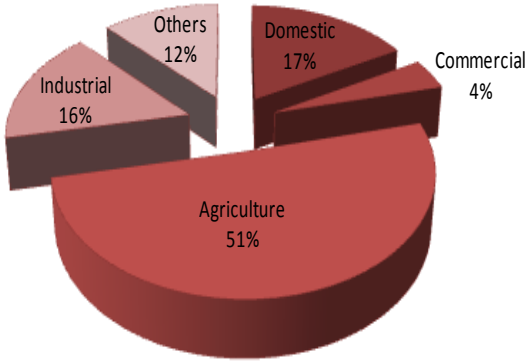
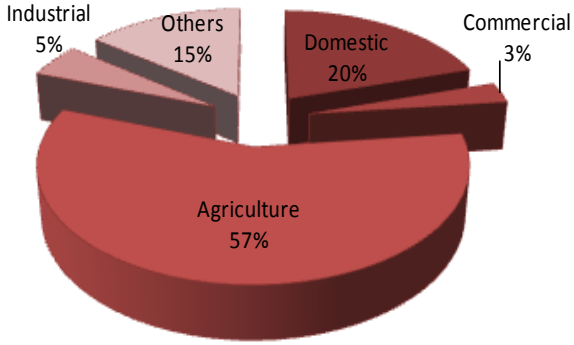
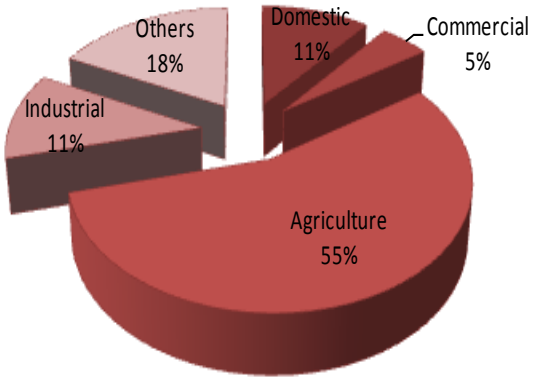
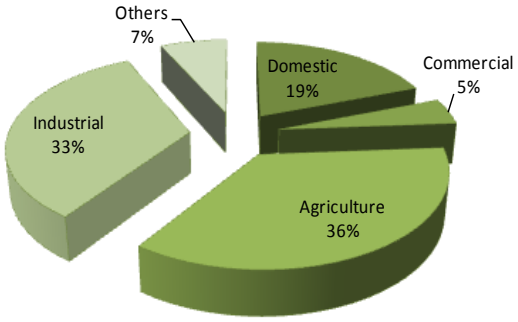
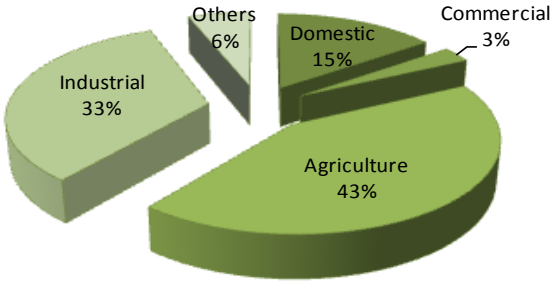
1. **Parameter I: Comparison of the category wise sales mix of the circles with the DISCOMs:** The sales mix[6] of the circle (in percentage term) in comparison[7] of the sales mix (in percentage term) of the DISCOM shown in Exhibit 2.

Exhibit 2: Comparison of the sales mix of the circles with the DISCOMs

DISCOM	Representative Circles
 **Jaipur DISCOM**	 Bharatpur  Kota

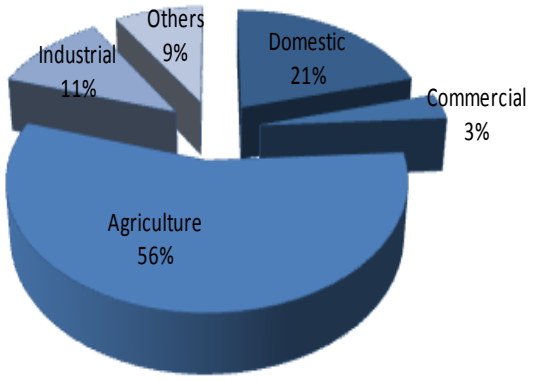
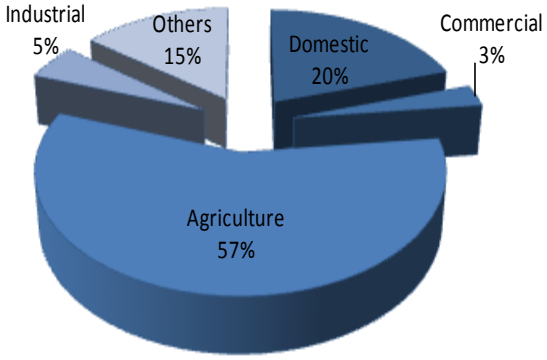
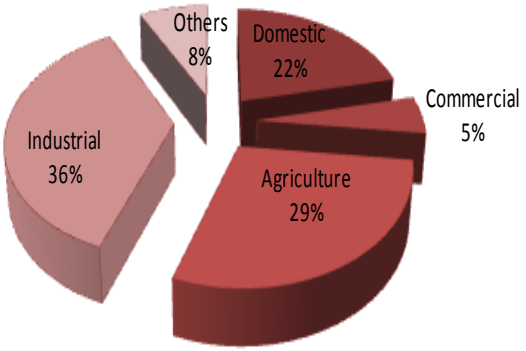
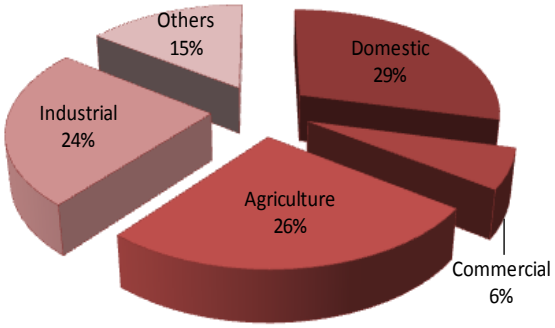
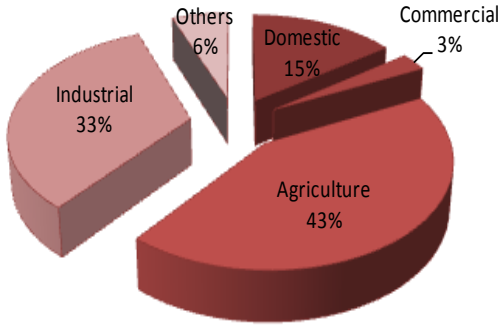
[6] Consumer category wise sales mix of the DISCOM has been arrived by aggregating the consumer wise sales mix of all the circles in the DISCOM.

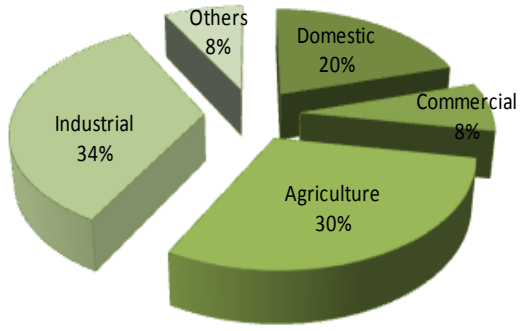
[7] Since, it is not possible to compare the sales mix of the circles with the DISCOMs in absolute terms, ±10% variation in sales mix for domestic, agriculture and industrial consumption have been considered.

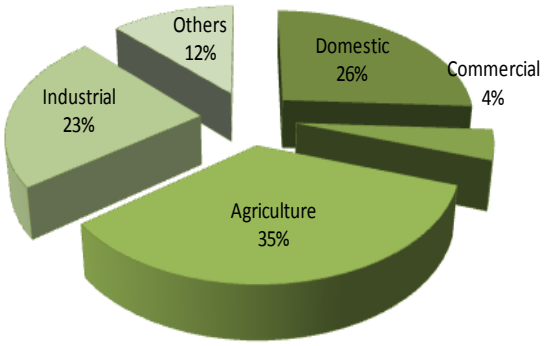
DISCOM	Representative Circles
 **Jodhpur DISCOM**	 Churu
	 Barmer
 **Ajmer DISCOM**	 Chittorgarh

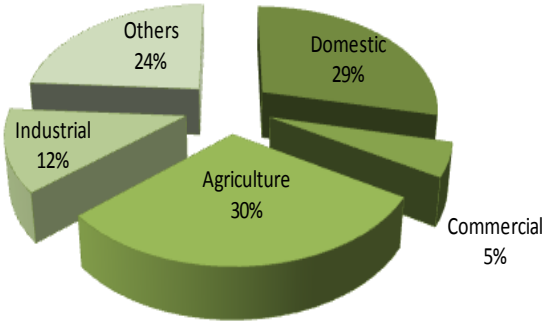
2. **Parameter II: Comparison of the category wise sales mix of the circles in respect of its geographical location:** The entire State is segregated into four zones (North, South, East and West) depending on the geographical location of the circles in the State. The sales mix of the zones has been arrived by aggregating the sales mix of the circles falling in each of the three zones. Zone wise analysis of the circles is presented in the Exhibit given below:

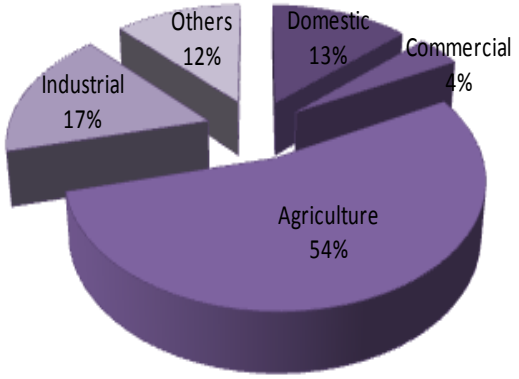
Exhibit 3: Comparison of the sales mix of the circles in respect of its geographical location

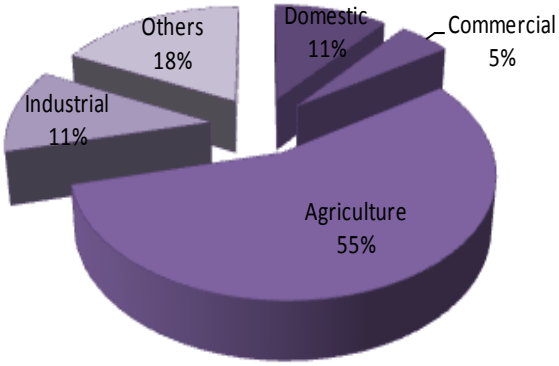
Zone	Representative Circles
 **Zone I – Northern region** (Circles in the districts of Jhunjhunu, Sriganganagar, Hanumangarh, Churu, Sikar and Nagaur)	 Churu (Jodhpur DISCOM)
 **Zone II: Southern region** (Circles in the districts of Banswara, Chittorgarh, Rajsamand, Udaipur, Bhilwara, Ajmer, Jhalawar and Kota)	 Kota (Jaipur DISCOM)  Chittorgarh(Ajmer DISCOM)

<table>
<tr><th>Zone</th><th>Representative Circles</th></tr>
<tr><td rowspan="2"> 

Zone III: Eastern Region
(Circles in the districts of Alwar, Bharatpur, Dausa, Jaipur City and District and Sawai Madhopur)</td><td> 

Bharatpur (Jaipur DISCOM)</td></tr>
<tr><td> 

Sawai Madhopur (Jaipur DISCOM)</td></tr>
<tr><td> 

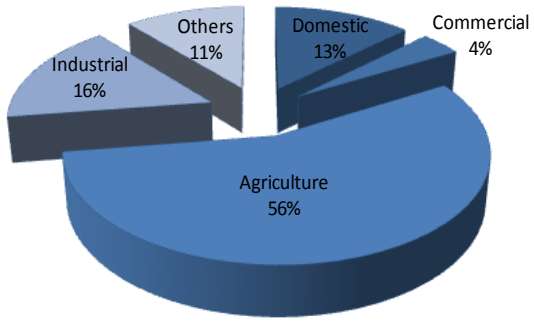
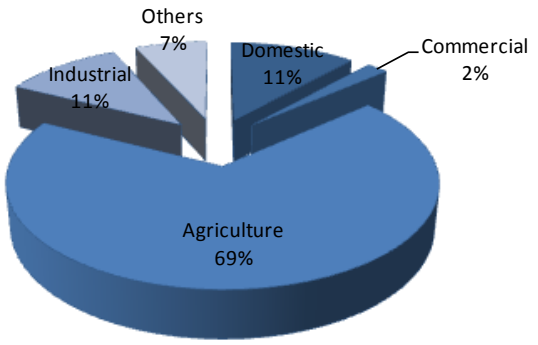
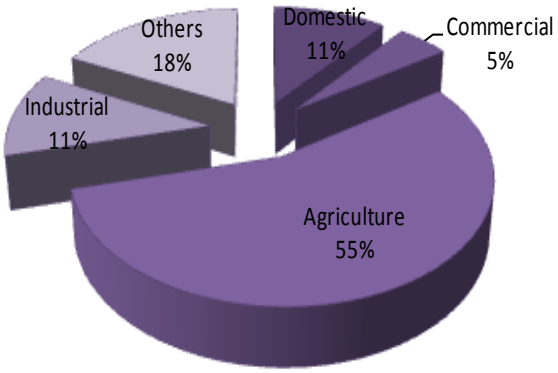
Zone IV: Western Region
(Circles in the districts of Jodhpur, Bikaner, Barmer, Pali and Jalore)</td><td> 

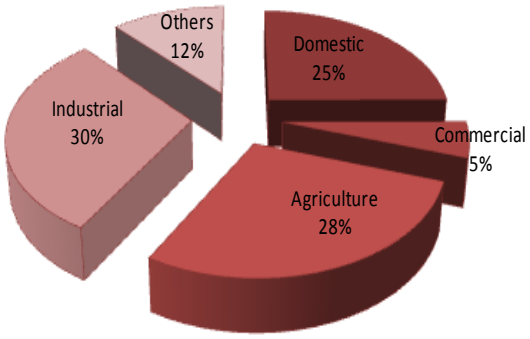
Barmer (Jodhpur DISCOM)</td></tr>
</table>

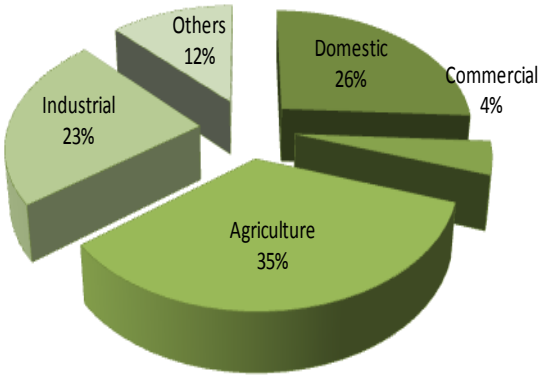
3. **Parameter III:** Existing usage of the ground water as well as requirement of future ground water for agriculture purpose in each district of Rajasthan. Data published by the Ministry of Water Resources was considered to understand the present usage of ground water as well as future ground water requirements in each district of Rajasthan. Based on the data published by the Ministry of Water Resources, the districts in Rajasthan were categorized into four regions.

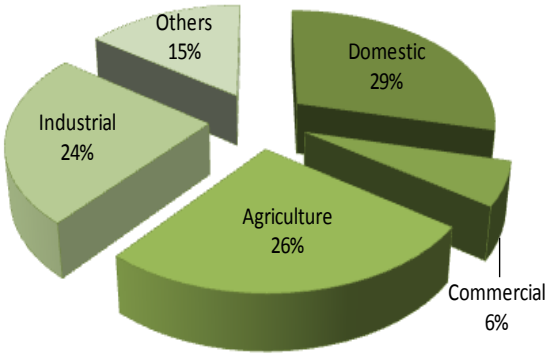
- **Region I:** Districts where the ground water is extensively used and requires major recharging of ground water to meet the future agriculture, domestic and industrial needs.
- **Region II:** Districts where the ground water is extensively used and requires minor recharging of ground water to meet the future agriculture, domestic and industrial needs.
- **Region III:** Districts where the ground water is extensively used and requires major to minor recharging of ground water to the meet future agriculture, domestic and industrial needs.
- **Region IV:** Districts where the ground water is extensively used but has sufficient ground water to meet the future agriculture, domestic and industrial needs.

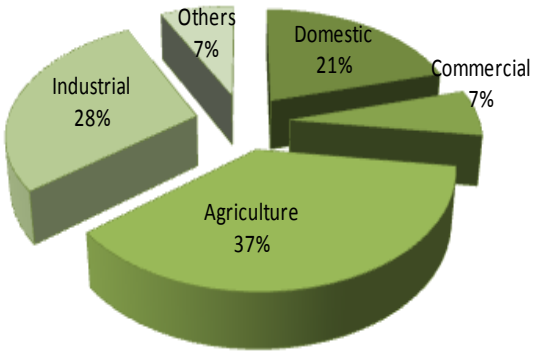
Exhibit 4: Comparison of the circles with respect of existing and future ground water usage

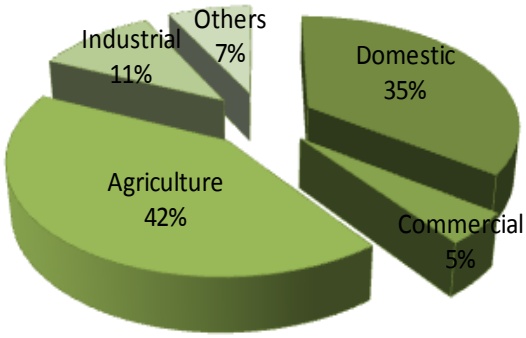
Region	Representative Circles
 **Region I** (Circles in the districts of Bikaner, Nagaur, Jodhpur, Barmer, Jalore and Pali)	 Nagaur (Ajmer DISCOM)  Barmer (Jodhpur DISCOM)

<table>
<tr><th>Region</th><th>Representative Circles</th></tr>
<tr><td rowspan="2"> 

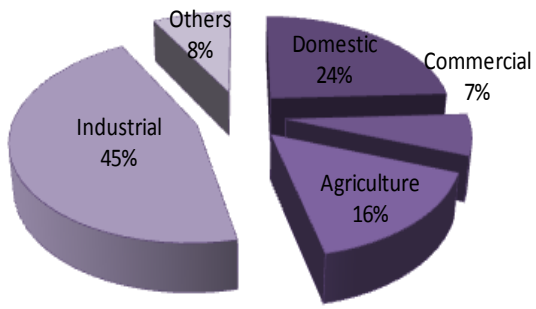
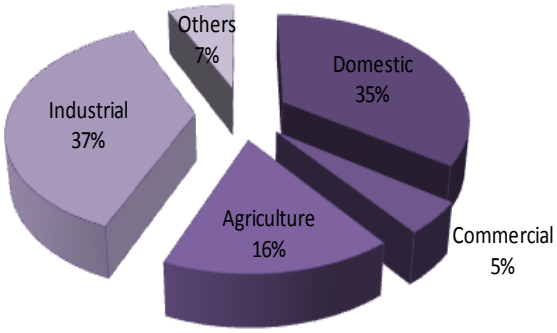
Region II
(Circles in the districts of Bharatpur, Sawai Madhopur, Bhilwara, Kota and Jhalawar)</td><td> 

Bharatpur (Jaipur DISCOM)</td></tr>
<tr><td> 

Kota (Jaipur DISCOM)</td></tr>
<tr><td> 

Region III
(Circles in the districts of Jaipur, Churu, Hanumangarh, Sriganganagar, Alwar, Jhunjhunu, Sikar, Dausa and Jaipur City)</td><td> 

Hanumangarh (Jodhpur DISCOM)</td></tr>
</table>

Region	Representative Circles
 **Region IV** (Circles in the districts of Banswara, Chittorgarh, Rajsamand, Udaipur and Ajmer)	 Banswara (Ajmer DISCOM)

4. Parameter IV: Share of the domestic and agriculture sales in the total sales mix of the circles.

The energy sold to the domestic and agriculture categories was around 60% of the total energy sold in the State of Rajasthan. During discussion with the FoR Secretariat it was agreed that the circles with same proportion of domestic and agriculture sales (with ±10% variation to accommodate the DISCOM and Zoning parameters) would be selected for field studies. This would also help to identify all the key elements/reasons associated with the AT&C losses in the State. The Table 9 presents the share of domestic and agriculture sales in the sales mix of the circles[8] in the State.

Table 9: Share of domestic and agriculture sales in the circles in Rajasthan in FY 2011-12

Sl. No.	Circles	Agriculture sales (in %)	Domestic Sales (in %)	Total (3+4) (in %)	Scoring
1	Jalore	76	7	83	4
2	Dausa	69	14	83	4
3	Jhunjhunu	64	18	82	4
4	D.C. Jodhpur	76	5	81	4
5	Nagaur	69	11	80	4
6	Sikar	63	16	79	3

[8] The circles with less than 55% of the sales in domestic and agriculture were not considered in this analysis

Sl. No.	Circles	Agriculture sales (in %)	Domestic Sales (in %)	Total (3+4) (in %)	Scoring
7	Bikaner	68	11	79	3
8	Churu	57	20	77	3
9	Hanumangarh	42	35	77	3
10	Jhalawar	51	24	75	3
11	Jaipur District	58	10	68	2
12	Barmer	55	11	66	2
13	Bharatpur	36	25	61	2
14	Chittorgarh	43	15	58	1

After analysis of the sales mix analysis of the circles based on the aforementioned four parameters, a selection matrix has been prepared to select four representative circles. The circles meeting the selection parameters most were selected for field study.

Table 10: Selection matrix

Circles	DISCOM	DISCOM wise	As per Geographical location	As per Ground Water level	Share of Agri. & Dom. consumption
Nagaur	Ajmer			√	4
Churu	Jodhpur	√	√		3
Barmer	Jodhpur	√	√	√	2
Bharatpur	Jaipur	√	√	√	2
Chittorgarh	Ajmer	√	√		1
D.C. Jodhpur	Jodhpur				4
Dausa	Jaipur				4
Jalore	Jodhpur				4
Jhunjhunu	Ajmer				4
Hanumangarh	Jodhpur			√	3
Bikaner	Jodhpur				3
Jhalawar	Jaipur				3
Sikar	Ajmer				3
Jaipur District	Jaipur				2
Kota	Jaipur	√	√	√	
Banswara	Ajmer			√	
Sawai Madhopur	Jaipur		√		

As shown in the Table 10, the following four circles met all the selection parameters and were selected for the detailed field studies.

- **Bharatpur circle in Jaipur DISCOM (JVVNL):** The sales mix of Bharatpur represents the sales mix of JVVNL as well as the sales mix of the Eastern Zone of Rajasthan. The circle also met parameter 3. The domestic and agriculture consumption of the circle was 61%, similar to the domestic and agriculture sales mix of the State.
- **Nagaur circle in Ajmer DISCOM (AVVNL):** The circle met selection parameter 3. The domestic and agriculture consumption of the circle was 70%, i.e. within the range of +10% variations (within the selection criteria) in domestic and agriculture sales mix as compared to the State.
- **Barmer in Jodhpur DISCOM (JdVVNL):** The sales mix of Barmer circle represents the sales mix of JdVVNL as well as the sales mix of the western region. The domestic and agriculture sales mix of the circle was 66% i.e. within the qualifying range. The circle also met parameter 3.

- **Churu in Jodhpur DISCOM (JdVVNL):** The sales mix of Churu circle represents the sales mix of JdVVNL as well as the sales mix of the Northern Zone. The domestic and agriculture sales mix of the circle was 77%.

After finalization of the representative circles, the consultant initiated the field studies in each of the four selected circles in Rajasthan. The start and completion period of the field studies in the four circles are presented in the following table:

Table 11: Start and completion period of field studies in the four circles in Rajasthan

Sl. No.	Circles	Date of start of the field studies	Date of completion of the field studies
1	Bharatpur	10th June 2012	30th September 2012
2	Nagaur	16th June 2012	30th September 2012
3	Churu	16th June 2012	30th September 2012
4	Barmer	16th June 2012	30th September 2012

The field studies were carried out in three stages:

- **High Tension (HT) study:** This involved collection of meter reads from the 132/33 kV and 33/11 kV sub-stations, including the consumers connected at 33 kV and 11 kV. Losses identified under this study are the sub-transmission losses.
- **Low Tension (LT) study:** This involved assessment of technical and commercial losses from the Distribution Transformers (DTs) to the consumer premises. The losses identified under this study were the component wise technical and commercial losses in the LT system.
- **Agriculture study:** The agriculture study was carried out with an aim to find out the actual connected load of the agriculture consumers with the sanctioned load as per the departmental records.

2.2.3 Task 4: Assessment of component wise technical and commercial losses

The methodology and formula given in the "Report on Loss Reduction Strategies "by Forum of Regulators were followed for assessment of the component wise AT&C losses. Few modifications in the methodology have been done in consultation of the FoR Secretariat such as:

- The methodology of assessment of the total technical loss in the HT system due to absence of meters in the incoming side of the 33 kV Sub-stations; and
- No. of hours of supply to the domestic consumers to compute the per day energy consumption of the domestic consumers.

Computation of AT&C losses

The AT&C losses of the circles have been computed as per the following formula:

$$\text{AT\&C Losses} = \frac{\{(\text{Energy input} - (\text{Energy Sold} * \text{Collection Efficiency})\}}{\text{Energy input}}$$

Where, Collection efficiency = Revenue realized/Revenue assessed

Assessment technical loss in the HT System

The technical losses in the HT system has been considered as the difference of the energy input in the 132 [9]kV system and sent out to the 11 kV feeders i.e.:

Total energy received from 132/33 kV Sub-stations	= X1
Total energy sent out from 11kV feeders to the consumers	= Y1
Total energy sent out to other circles/DISCOMs	=Y2
Total energy sent out	=YT =Y1+Y2
Energy lost in 33/11 kV System of DISCOM	= X1 – YT

The meters installed in the sub-stations show two types of meter reads i.e. cumulative meter read and current meter read (both in kWh and kVAh).

Further, for computing the energy input and energy sent out from the cumulative meter read, there was a time gap of 25-30 days i.e. two meter reads for both the receiving end and sending end meters were taken within a gap of 25-30 days. The amount of energy input and energy sent out are computed as the difference of the second (cumulative) and first meter read (cumulative). The formula for computing the energy input and energy sent out at the Sub-Stations is presented below.

X1 = (2nd day cumulative meter read - 1st day cumulative meter read) X MF
Y1 = (2nd day cumulative meter read - 1st day cumulative meter read) X MF
Y2 = (2nd day cumulative meter read - 1st day cumulative meter read) X MF

Total energy sent out	=YT =Y1+Y2
Energy lost in 33/11 kV System of DISCOM	= X1 – YT

[9] Technical loss is not computed at 33 kV level as the meters are not installed at 33 kV system.

As mentioned earlier, it was found that number of meters were defective in the 33/11 kV sub-stations. On our request, some of the defective meters were replaced. To overcome the deficiency in the metering system, we have considered the energy input in only those 33/11 kV sub-stations, where the meters are working properly.

For computation of the sub-transmission losses, we have not included those Sub-Stations where the meters are not working. Percentage of such sub-stations is in the range of 15%-20% in the four circles.

The circle wise computation of the technical loss in the HT system is enclosed as Annexure II in Volume II of this report.

As highlighted in the previous section, the technical loss from the 11 kV feeders to the HV side of the DTs has been arrived by deducting the technical loss of HT and LT system from the total technical loss of the system.

Technical loss in the LT System

Technical loss in LT system has been estimated on the basis of sample studies in the DTs. The formula for computing the line losses in the LT system is presented below.

A1 = 1st read of the DT meter
A2= 2nd read of the DT meter
MF1 = Multiplying Factor of the DT meter
B1= 1st read of all the consumers connected with the DT
B2=2nd read of all the consumers connected with the DT
MF2= Multiplying Factor of the consumer meter

Technical loss in the LT system = (A2-A1) X MF1 – (B1-B2) X MF2

The LT study of a particular DT has been carried out in single day. In case of long power cut, the study was continued in the DTs as well as in the consumer premises

next day to complete the reading cycle. It is to highlight that there are two limiting factors associated with conducting the LT studies in the next day:

- Households found un-locked in the first day but found locked in the second day. The actual consumption of households for a day could not be computed.
- Meters found working in the first day but found not-working in the second day. The actual consumption of households for a day could not be computed.

The study had paid special attention to overcome the above two limiting factors. If, such limiting factors found during the field studies, the LT study was repeated in the next day.

Assessment of component wise commercial loss

For the computation of commercial loss, the overall AT&C losses have been first computed as the difference between the input energy and the energy realized in the circles. After determination of the overall technical loss in the circles, the commercial loss has been identified as the difference between the overall AT&C losses and the technical loss. Further, the different components of commercial loss i.e. commercial loss due to theft/pilferage, metering, billing and collection deficiencies have been determined as per the methodology prescribed in the "Loss Reduction Strategy Report".

(a) Commercial loss due to deficient metering:

Actual consumption (kWh) of the consumers recorded in the field studies - Billed by the utility (kWh) of such consumers having defective meters as per the records

(b) Commercial loss due to billing inefficiency:

Actual consumption (kWh) of the consumers recorded as per the field studies – Provisional billing done by the utility (kWh) of such consumers as per their records

(c) Commercial loss due to collection inefficiency:

Energy Billed (kWh) – Energy Realized (kWh)

Where, Energy Realized = Energy billed (kWh) * Collection efficiency (%)

(d) Commercial loss due to theft/pilferage:

It is not possible to compute the extent of theft/pilferage accurately in the distribution system by any formula. Therefore, the extent of energy loss due to theft of energy has been computed by deducting the component wise commercial loss mentioned from point no. (a) to (c) from the total commercial loss of the circle[10]. The formula for computing the energy loss from theft is given below:

Commercial loss due to theft/pilferage = Total Commercial Loss - (Commercial loss due to deficient metering + Billing inefficiency +Provisional billing to the metered consumers + Collection inefficiency)

Extrapolation of study results and computation of AT&C losses of the circles

The field survey results were extrapolated on the on the DISCOMs from June to September 2012, i.e. during the study period. The detailed assumptions and methodology for extrapolation of the AT&C losses is given chapter 5 of this report.

Assumptions made in the computation of the commercial loss

- Average power supply in the circles has been assumed as 20 hours to compute the per day consumption of the domestic consumers.
- The technical Loss in LT has been computed separately for domestic, commercial, industrial and agriculture DTs have extrapolated as per the existing sales mix of the circle.

Based on the findings of the field studies, key factors responsible for AT&C losses were identified and segregated into three categories namely- A, B and C to identify the priority areas and to frame a set of recommendations to reduce the losses. The factors which have major contribution to AT&C losses and needed maximum attention were classified into category A, the factors requires medium level of attention were categorized into category B and the factors requires comparatively minimum attention were classified into category C. The said classification is given below:

[10] The same methodology has been prescribed in the FoR's "Loss Reduction Strategies" Report

Category A:

(i) Commercial loss due to theft/pilferage of energy.

(i) Technical loss in the LT system.

Category B

(ii) Commercial loss due to collection inefficiency.

(iii) Technical loss in the HT system.

Category C

(iv) Commercial loss due to deficient metering, and billing inefficiency

A series of interventions based on the "ABC Analysis" are given in chapter 5 of this report.

2.2.4 Task 5: Preparation and submission of draft report

Based on the outcomes of the field studies in the four representative circles in Rajasthan, a draft report was prepared and submitted to the FoR Secretariat for their review and comments.

2.2.5 Task 6: Stakeholder workshop

A stakeholder workshop was organized at the FoR Secretariat Office on October 03, 2013 to share the background, objectives and key findings of the component wise AT&C losses study in Rajasthan. The workshop was represented by the Officials of the FoR, PFC and the Jodhpur DISCOM. The stakeholder's suggestions, comments and recommendations on the study report were noted during the workshop. The minutes of meeting of the workshop is enclosed as "Annexure V" in Volume II of the Final Report.

2.2.6 Task 7: Preparation of Final report

After incorporating the comments received from various stakeholders in the Workshop, the final report on the study on "Component wise AT&C losses reduction study in the State of Rajasthan" has been prepared and submitted to the FoR Secretariat.

3. Chapter 3: Findings from the field study in the four circles of Rajasthan

This chapter presents key findings from the field studies in the four circles in Rajasthan. The sub-sections of this chapter highlight the general profiles of the circles, including AT&C losses. Chapter 3 also presents the existing status of the distribution assets, metering status at various levels, billing and collection process etc. that are closely related to the AT&C losses.

3.1 General profiles of the four representative circles in Rajasthan

General profiles of the four representative circles in Rajasthan in FY 2011-12 are presented below:

3.1.1 Bharatpur

Bharatpur is one of the twelve circles operating under JVVNL DISCOM. The circle is segregated into four divisions and sixteen sub-divisions. A total of 10 no. of 132/33 kV substation feeds energy in the circle. The HT network of the circle comprised of 78 no. 33/11 kV substations.

Total number of consumers in the circle was around 0.26 million. Energy sold during FY 2011-12 was around 921.55 MU. Domestic and agriculture consumption contributed almost 61% of the total energy consumption of the circle. Sales to the industrial category were around 23% of the total energy sold in the circle. Other consumer categories such as commercial, public water works, railway traction, street lighting contributed around 16.50%. Following Exhibit shows the consumer profile and sales mix of the Bharatpur circle in FY 2011-12.

Exhibit 5: Consumer and sales mix of Bharatpur for FY 2011-12

Consumer type	Consumers mix (%)	Sales mix (%)
Others	0.76%	12.22%
Agriculture	8.51%	34.35%
Industrial	1.76%	23.18%
Commercial	7.62%	4.33%
Domestic	81.33%	25.92%

Source: JVVNL

3.1.2 Nagaur

Nagaur is operating under the AVVNL DISCOM and segregated into five divisions i.e. Makrana, Merta, Nagaur, Didwana and Kuchman city. The supply area of circle is spread across the Nagaur district of Rajasthan. The circle receives energy from 18 nos. of 132/33 kV substations and 4 nos. of 220/132 kV substations. A total of 236 no. of 33/11 kV substations and 1082 no. of 11 kV feeders distributes electricity in the Nagaur circle.

Total number of consumers in the circle is around 0.4 million, comprising mostly rural consumers (79%). In FY 2011-12, total energy sales in the circle were 1607.47 MU, out of which energy sales to the agriculture and domestic categories constituted almost 81.39% of the total energy sold in the circle. Energy sold to the industrial category was around 10.55% of the total energy sold in the circle. Other consumer categories such as commercial (2.43%), public water work and street lighting contributing remaining 8% of the total energy sold in the circle. The consumer and sales mix of the Nagaur circle is presented in the following Exhibit.

Exhibit 6: Consumer and sales mix of Nagaur for FY 2011-12

Consumer type	Consumer mix (%)	Sales mix (%)
Others	1.22%	5.63%
Agriculture	12.35%	69.79%
Industrial	2.58%	10.55%
Commercial	7.55%	2.43%
Domestic	76.30%	11.60%

Source: AVVNL

3.1.3 Barmer

Barmer is one of the nine circles falls under the JdVVNL DISCOM. The circle is comprised of two divisions i.e. Barmer and Balotra. Barmer is one of the largest circles in Rajasthan in terms of geographical area. The circle gets its energy from 2 no. of 220/33 kV substation and 22 nos. of 132/33 kV substations. A total of 168 nos. of 33/11 kV substations and 738 nos. of 11 kV feeders distributes energy across four divisions of the circle.

Total number of consumers in the circle is around 0.28 million. Around 75% of the total consumer in the circle comprised of rural consumer. In FY 2011-12, total energy sold in the circle was 842.49 MU. Energy sold to the domestic and agriculture contributed more than 66% of the total energy sold of the circle during FY 2011-12. Energy sold to the industrial consumers constituted 11% of the total energy sold in the circle. Energy sold to the commercial category was around 5% and other consumer categories such as water works, street lighting had 18% share on the total energy sales of the circle. Exhibit 7 shows the consumer profile and energy sales mix of Barmer circle.

Exhibit 7: Consumer and sales mix of Barmer for FY 2011-12

Consumer type	Consumers mix (%)	Sales mix (%)
Others	1.22%	17.58%
Agriculture	14.68%	55.53%
Industrial	1.10%	11.41%
Commercial	9.13%	4.82%
Domestic	73.87%	10.66%

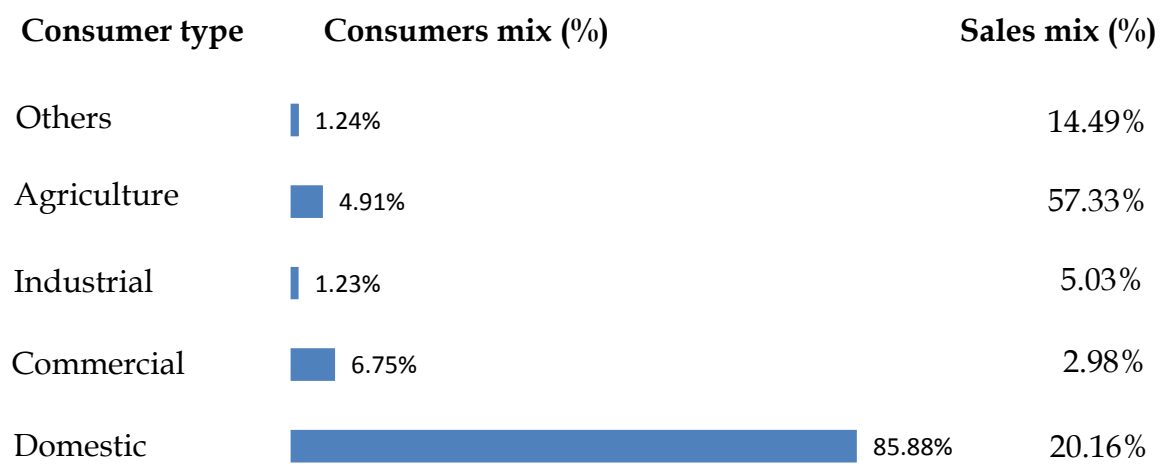
Source: JdVVNL

3.1.4 Churu

Churu circle is operating under the JDVVNL DISCOM and catering the energy demand of consumers in the three divisions i.e. Churu, Ratangarh and Sujangarh. Total 5 nos. of 220/132 kV substations and 14 nos. of 132/33 kV feeds electricity in the circle. The circle has 115 nos. of 33/11 kV substations and 521 nos. of 11 kV feeders.

The circle distributes energy close to 0.28 million consumers. Total energy sales of the circle in FY 2011-12 were 1027.39 MU. Agriculture is the main consumer category in the circle (57%), followed by domestic (20.16%) the domestic consumers during FY 2011-12. Energy sold to the industrial consumers was around 5% of the total energy sold in the circle. Other consumers such as water works, street lighting and commercial had 17.47% share of the total energy sold in the circle. Consumer profile and sales mix of the Churu circle is depicted in the Exhibit below:

Exhibit 8: Consumer and sales mix of Churu for FY 2011-12



Source: JdVVNL

3.2 AT&C losses Profile of the circles

The AT&C losses for FY 2011-12 reported by the four representative circles in Rajasthan are summarized below:

Table 12: AT&C losses of the four representative circles in Rajasthan for FY 2011-12

Particulars	Bharatpur	Nagaur	Churu	Barmer
Energy input in the circle (MU) [A]	1440.82	2129.81	1390.531	1085.40
Unit billed (MU) [B]	921.55	1553.71	1027.394	842.49
T&D Losses (%) [C] = ([A]-[B])/[A]	36.04%	27.05%	26.11%	22.38%
Revenue Billed (₹ Crore) [D]	318.96	380.09	183.10	124.38
Revenue realized (₹ Crore) [E]	297.70	353.00	165.00	117.20
Collection Efficiency (%) [F]=[E]/[D]	93.33%	92.87%	90.11%	94.22%
AT&C Losses (%) [G] = ([A]-([B]*[F]))/[A]	40.30%	32.25%	33.42%	26.86%

Source: JVVNL, AVVNL, JdVVNL and Field Studies

The AT&C losses (FY 2011-12) of the four representative circles in Rajasthan were in the range of 27%-40%. The T&D losses of the circles were in the range of 22% - 36%. All the four representative circles have collection efficiency of more than 90%.

- Barmer circle has the lowest AT&C losses as compared to the other three selected circles due to low T&D losses at 22.38%.
- Bharatpur circle has the highest level of AT&C losses (40%) among all the four representative circles in Rajasthan. The T&D losses of the circle were close to 36% and collection efficiency was 93%.
- The AT&C losses in Nagaur circle were around 32% in FY 2011-12. T&D losses in the circle were 27% of T&D losses and collection efficiency of 93% that resulted into 32% AT&C losses in the circle.
- The T&D losses in Churu circle were close to 26%. However, collection efficiency of the circle is lowest among the all the four represented circles.

This study has attempted to analyze the root causes for the AT&C losses in the distribution circles as well as the prevalent shortcomings in the distribution system of the DISCOMs. The following sub-sections highlight the key factors that are closely associated with energy losses in the circle.

3.3 Distribution system in the circles

All the four DISCOMs in Rajasthan have implemented the Feeder Renovation Program (FRP) with an objective to improve the quality of power supply as well as to reduce the distribution losses in the state. Under the FRP additional capacity was created in the distribution system and more importantly three phase agriculture supply was segregated from the single phase domestic supply in the rural areas.

In the semi-urban areas separate 11 kV feeders are provided for urban and rural consumers. HVDS system has been introduced for the agriculture consumers, where

separate transformers were provided to the farmers to reduce theft of electricity in the agriculture feeders.

3.4 Metering status in the circles

Meters in the 33 kV System

Electronic energy meters are installed at the receiving (incoming) end of the 11 kV feeders. The DISCOMs have mostly installed meters manufactured by companies like Secure, L&T, Genus, Omni Agate and Duke Arnics meters.

During our field studies it was found that a number of meters installed in the 33/11 kV are not working. The following Exhibit shows some examples of defective meters installed in the 33/11 kV Sub-stations found in our field studies.

Exhibit 9: Defective meters installed at 33 kV System

Defective meter installed in Kumher S/S in Bharatpur

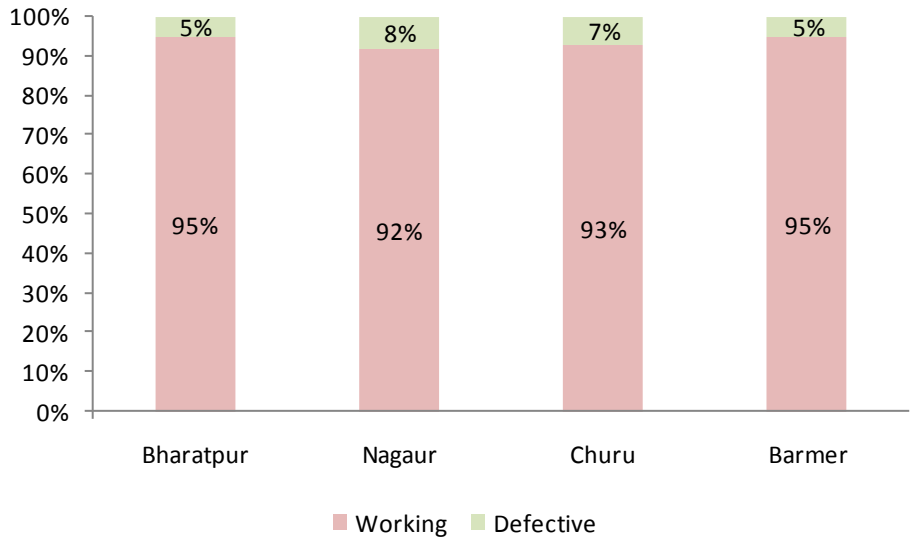
No feeder meter installed in Nadbai substation Bharatpur

Defective meter installed in Dudwakhara S/S in Churu

Feeder meter not installed in Lal Ghanta Ghar feeder in Churu

The following exhibit presents the total percentage of defective meters in the 33 kV system in all the four circle found during our field studies.

Exhibit 10: Percentage of working and defective meters installed in the 33 kV System

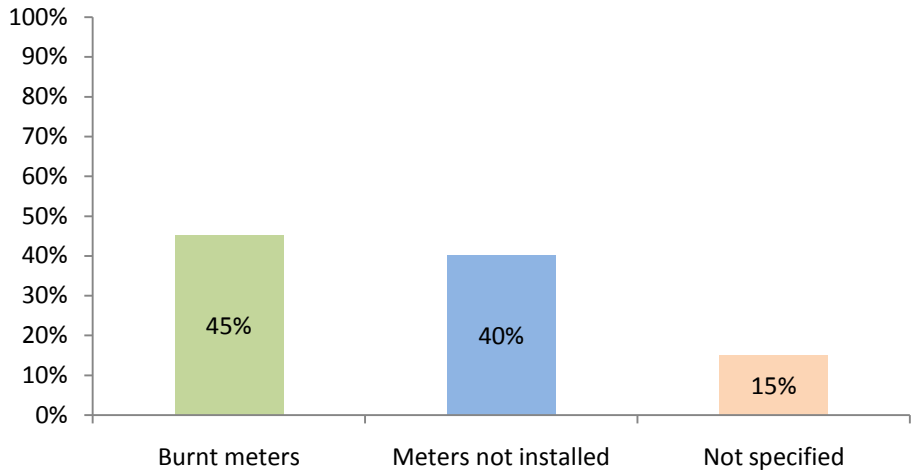


Source: Field Studies

During the field visits, it is observed that the meters are defective mainly due to non-replacement of burnt/defective CT/PTs. In case of Nagaur circle, it is found that meters are not installed in 17% of the total feeders in the circle.

The reasons for defective meters have been summarized in the Exhibit shown below:

Exhibit 11: Reasons for the defective meters in the 33 kV sub-stations in the four circles

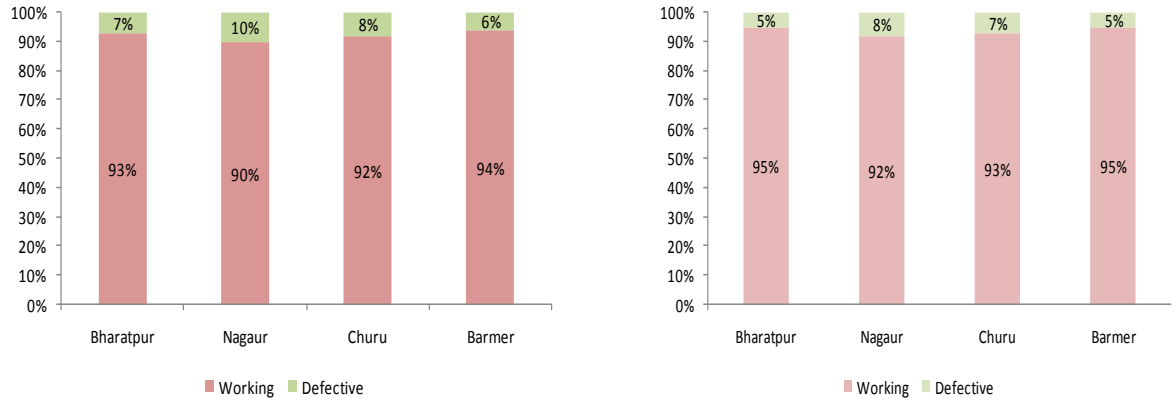


It can be observed from Exhibit 11 that:

- The study found that out of the total damaged meters in the 33 kV sub-stations, 45% meters were burnt.
- In was also found that out of the total damaged meters, the feeder meters were not installed on account of repairing work in 40% cases.
- The sub-station staff was not aware of the reasons for the defects in meters for the remaining 15% of the damaged meters.

The study mandated the consultant to request the circle office to replace the defective meters in order to calculate losses at the substation level. Accordingly, few of the defective meters in the substations were replaced and readings have been taken from the substations. However, in a number of cases the meters were not replaced during our field studies in the circle. The following Exhibit shows the percentage of working and defective meters found during our visits.

Exhibit 12: Percentage of working and defective meters found in 33/11 kV substations



During 1st visit **During subsequent visits**

Source: Field Studies

As shown above around 1%-2% of the defective meters were replaced at the time of field studies in the four circles.

Table 13: Substations, where the meters are replaced during our field studies

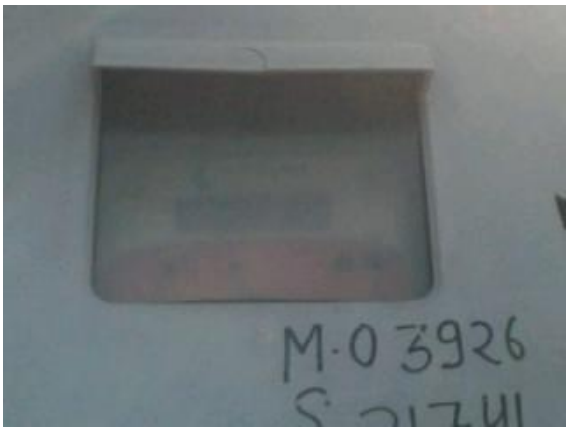
Sl. No.	33 kV substation	Circle
1	IOC	Bharatpur
2	Swaran Jayanti	Bharatpur
3	Churu city	Churu
4	RIICO 1st	Churu
5	RIICO 2nd	Churu
6	Basni	Nagaur
8	Oladan	Nagaur

Source: Field Studies

Metering status at the distribution transformer level

Most of the DTs in all the four circles were found un-metered, especially in Bharatpur and Barmer circles. Majority of the DT meters were found in the urban areas. The following exhibit shows some of the un-metered DTs found during the field studies in the four representative circles in Rajasthan.

Exhibit 13: Un-metered DTs found during the field study



DT Meter not working located near Mathura Gate - Bharatpur

DT Meter not working located near Power House - Bharatpur

Un-metered DT in Barmer City

Un-metered DT near Golf Club in Churu circle

Source: Field studies

Metering at the consumer end

Electronics meters are installed for most of the consumers in the urban areas. However, in 3% of the cases it was found that electro-magnetic meters were also in use. Electro-magnetic meters are highly susceptible to tampering. Besides, the electro-magnetic meter does not count the energy consumption of the appliances consume small amount of energy such as mobile charger and emergency lamp etc.

Exhibit 14: Electro-magnetic meters found in Churu circle

Electro-magnetic meter installed at a consumer premises in Agrasen Nagar having meter no. 1006576 in Churu circle

Electro-magnetic meter installed at a consumer premises in Besayu Road having meter no. 567 in Churu circle

It is also found that in a number of households the meters are defective or un-metered. In some cases the consumers have registered their complaints in the sub-division for more than 3 months but the meters are not replaced. In other cases the consumers have not informed the department to replace the defective meter and the billing has been done on provisional basis with the assistance of the meter reader. The following exhibit depicts few examples of defective meters found in the consumer premises.

Exhibit 15: Defective meters found in the consumer premises

Defective meter for consumer/meter no. 5810752 in Churu

Defective consumer consumer/meter no. 3077233 in Churu

3.5 Commercial practice in the DISCOMs

3.5.1 Type of connections

There are three types of connections provided to various categories of consumers:

- **Metered consumers**: Consumers with metered connections are billed on monthly/bi-monthly basis. Domestic, commercial, industrial and other categories such as public water works, street lighting and railway tractions come under this type of connection.

- **Subsidized categories:** Subsidized consumer categories are comprised of agriculture, BPL and the domestic connections upto 50 unit. The SERC fixed the subsidized tariff after considering the subsidy allocated for each of the above consumer category. The department charges these consumers according to the tariff approved by the State Commission.

- **Flat rate consumers:** One category of agriculture consumers are charged as per the sanctioned load (HP) of the consumers. Further, BPL and small domestic consumers (consumption upto 50 units) are charged at a fixed rate of Rs. 80 per month.

3.5.2 Supply to agriculture consumers

The agriculture consumers get its supply during peak and off-peak hours. Generally, the agriculture consumer receives supply from the DISCOM for 6 hours during the day and night time.

3.5.3 Meter reading and billing

The meter reading and billing jobs are completely outsourced in all the four circles to bring efficiencies in this billing and collection process. For example, meter reading

and billing in two sub-divisions of Bharatpur circle is done by the department. For rest of the sub-divisions a billing agency has been appointed for meter reading.

3.5.4 Revenue collection from the consumers

The payment against the billed amount has been collected from the consumers at the collection centers located in the sub-division offices. It was noted during the field studies that the DISCOMs were also involved in collection of arrears from permanently disconnected consumers, which is a healthy sign for improving the financial condition of the DISCOMs.

4. Chapter 4: Computation of component wise AT&C losses in the four circles in Rajasthan

Following sub-sections of this chapter highlight the assessment of component wise AT&C losses in the four representative circles in the State of Rajasthan from June to September 2012 i.e. when the field studies was conducted in the four circles.

4.1 Bharatpur circle

4.1.1 AT&C losses in Bharatpur circle from June to September 2012

Table 14 shows the estimated AT&C losses of Bharatpur Circle from June to September 2012.

Table 14: Estimated AT&C losses of Bharatpur circle (June to Sept. 2012)

Particulars	MU	In percentage
Energy input in the circle (MU) [A]	326.52	
Energy billed (MU) [B]	197.89	
T&D Losses (MU) [C] = [A]- [B]	128.63	
T&D Losses (%) [D] = ([A]-[B])/[A]	---	39.39%
Revenue Billed (₹ Crore) [E]	88.18	
Revenue realized (₹ Crore) [F]	76.38	
Collection Efficiency (%) [G]=[F]/[E]	---	86.62%
AT&C Losses (MU) [H] = [A]-([B]*[G])	155.11	
AT&C Losses (%) [I] = ([A]-([B]*[G]))/[A]	---	47.50%

Source: JVVNL and Field Studies

Following are the highlights of the AT&C losses of the Bharatpur circle from June to September 2012:

- The actual energy input during the study period was 326.52 MU. Against that energy billed has been computed at 197.89 MU, which led to T&D losses of 128.63 MU i.e. 39.39% of the energy input in the circle. As per the DISCOM's records energy billed during the study period was 200.41 MU. However, a variation of 2.52 MU with respect to the energy billed to the flat rate agriculture consumer

has been observed. As per the computation of the DISCOM, total energy billed to the flat rate agriculture consumers was 52.76 MU during the study period. Whereas, the findings from the study showed that actual energy billed to the flat rate agriculture consumers would be 50.24 MU. Accordingly, 2.52 MU has been deducted from the total energy billed. Detailed computation of the same is shown in Table 15.

- Against the energy billed, the circle has billed ₹ 88.18 Crore and realized only ₹ 76.38 Crore. Hence, the collection efficiency of the circle was 86.62%.
- Based on the above, the AT&C losses of the circle have been computed at 47.50% i.e. energy loss of 155.11 MU against the energy input of 326.52 MU.

To compute the energy billed during the study period, the study has reviewed the energy billed by the DISCOM to the metered and flat rate consumers. The study has found the energy billed to the metered consumers were in order. However, in case of energy billed to the flat rate agriculture consumers the findings of the study and billed by the DISCOM varied by 2.52 MU.

Table 15: Computation of energy billed to the flat rate agriculture consumers in Bharatpur (June to Sept. 2012)

	Average connected load of the flat rate agriculture consumers (H.P) as per DISCOM records	Average connected load of the flat rate agriculture consumers (kWh) as per DISCOM records	Energy billed as per field studies (MU)	Energy billed as per DISCOM records (MU)	Overbilling by the DISCOM (MU)
	1	2	3	4	5=4-3
Urban	437.50	326.38	0.15	-	-
Rural	15,379.50	11,473.11	5.44	-	-
Total	**15,817.00**	**11,799.49**	**5.60**	**8.12**	**2.52**

Source: Jaipur DISCOM and field studies

Table 15 shows that the DISCOM has overbilled 2.52 MU to the flat rate agriculture consumers during the study period.

The methodology for estimation of energy billed to the flat rate agriculture consumers are described below:

- The RERC has fixed 1945 kWh/kW/year for FY 2012-13 for the flat rate agriculture consumers. Accordingly, per day consumption has been arrived at 5.33 kWh/kW/day.
- It was observed during the field studies that the pump sets are not used during the rainy days. Data published by the Water Resources Department, Government of Rajasthan has shown 33 days[11] of rainfall in Bharatpur during the study period. Hence, 33 days has not considered for computation of energy billed to the flat rate agriculture consumers during the study period.
- Based on this methodology energy billed to the flat rate agriculture consumers were computed at 5.60 MU.

The computation of energy billed to the flat rate agriculture consumers during the study period for the four representative circles is shown "Appendix II".

4.1.2 Technical loss of Bharatpur circle

The component wise technical loss i.e. the technical loss from the 132 kV to 11 kV (HT) and below 11 kV (LT) in the Bharatpur circle are presented in the following Table.

Table 16: Component wise technical loss in Bharatpur (June to Sept. 2012)

Particulars	MU	Components of technical loss (%)
HT loss from 132 kV to 11 kV [A]	13.52	4.14%
Technical loss below 11 kV [B]	30.10	9.22%
Total technical loss [C]=[A]+[B]	**43.62**	
Energy input in the circle [D]	326.52	
Percentage of technical loss in terms of energy input in the circle (%) [E] = [C]/[D]		**13.36%**

Source: Field studies

[11] Source: http://waterresources.rajasthan.gov.in

As seen in Table 16, the total technical loss in Bharatpur circle was 43.62MU, which is 13.36%of the total energy input (326.52 MU) in the circle. The technical loss in the HT and LT systems account for 4.14% (sample computation of the same is shown in Table 16 and Table 17) and 9.22% (sample computation is shown in Table 18) with respect to the energy input in the circle. Detail computation of the technical loss HT and LT systems (for all the four circles) is enclosed as Annexure III and Annexure IV in Volume – II of this report.

Table 17: Sample calculation of technical loss in the HT system in Bharatpur circle

Name of 132 kV S/S	Energy sent from 132 kV	Name of 33/11 kV S/S	Energy Sent to 33 kV sub-station	Name of 11 kV feeder	Energy sent from 11 kV	HT Loss (%)
Kumher	16102	Kumher city	16102	Adhaiya w/w	13.94	
				Lakhan w/w	44.34	
				Gunsara	553.5	
				Taka	461.2	
				Kumher city	1030.2	
				Dhanwara	3560.4	
				Borai	1361.35	
				Sinsini	77.47	
				Tamrer w/w	3486.6	
				Didwari	4870.50	
				Total	**15459.50**	
HT loss from 132 kV to 11 kV sent out			**= (16102-15459.50)/16102**			**3.99%**

Source: Field studies

The total energy input in the circle computed during the study period and total energy sent out from the 33/11 kV feeders is shown in the Table 18. The technical loss in the HT system is computed at 4.14%.

Table 18: Computation of technical loss in the HT system in Bharatpur circle

Particulars	Consumption ('000 kWh)
Energy input ('000 kWh) [A]	178173.83
Energy send from 11 kV feeders ('000 kWh) [B]	170798.29
HT loss from 132 to 11 kV (%) [C]=([A]-[B]/[A])	4.14%
Energy input in the circle [D]	326.52
Technical loss in the HT system [E] = [C]*[D]	13.52

Source: Field studies

Computation of the technical loss below 11 kV and extrapolating the same on Bharatpur circle is presented in the following Table.

Table 19: Computation of LT line loss and extrapolating the same in Bharatpur circle (June to Sept. 2012)

Consumer category	Energy sent from the DTs[12]	Energy consumption at consumer end	Line loss	Energy consumption in the circle during the study period (MU)	Energy required to sale energy to the consumers (MU)*	LT line loss
[A]	[B]	[C]	[D] =([B] - [C])/[B]	[E]	[F] = [E]/ (1-[D])	[G] = [F] – [E]
Domestic and agriculture consumers	1859.40	1524.30	18.02%	117.41	143.22	25.81
Commercial	228.00	193.10	15.31%	15.22	17.97	2.75
LT industrial and others	185.40	177.30	4.37%	33.62	35.16	1.54
Total [A]						**30.10**
Energy input in the circle [B]						326.52
Technical loss in the LT system [C] = [A]/[B]						9.22%

* Including 3% DT loss

Source: Field studies

4.1.3 Commercial loss in Bharatpur circle

The commercial loss of the circle has been arrived at by deducting the total technical loss from the AT&C losses of the circle. The estimated commercial loss of Bharatpur circle is computed below:

[12] Energy sent and energy consumption data is based on the sample LT study. As mentioned in chapter 2, LT study for a particular DT had been carried out in a single day.

Table 20: Commercial loss in Bharatpur (June to Sept. 2012)

Particulars	MU	In percentage
AT&C losses (MU) [A]	155.11	47.50%
Technical loss (MU) [B]	43.62	13.36%
Commercial loss (MU) [C] = [A] – [B]	**111.49**	
Energy input in the circle [D]	326.52	
Commercial loss (%) [E] = [C]/[D]		**34.15%**

Source: Field Studies

The commercial loss in Bharatpur circle was 111.49 MU i.e. 34.15% of energy input (326.52 MU). Key factors responsible for commercial loss in the circle are discussed below.

4.1.4 Component wise commercial loss in Bharatpur circle

Commercial loss due to deficient metering

The commercial loss due to deficient metering of the consumers is shown in the following Table. This type of loss takes place at the time when the meters are defective and not replaced within 15 days as per the "Supply Code" and the consumers are billed on provisional basis over a period of 1-3 months. Due to provisional billing to these consumers the circle has incurred commercial loss as shown below.

Table 21: Commercial loss due to deficient metering in Bharatpur

Particulars	1 month consumption as per field studies (Units)	1 month consumption as per the DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM due to deficient metering (MU)	Energy to be billed as per the field study due to deficient metering (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (M1)**	**3 (M2)**	**4 (M3=(M1-M2)/M1))**	**5 (M4)**	**6 (M5=((M4/(1-M3))**	**7 (M6=M5 - M4)**	**8 (M7 = M6/ energy input)**
Loss due to deficient metering	211.09	193.50	9.09%	59.37	65.30	5.94	(5.94/326.52) = 1.82%

Source: Field Studies

From the sample LT study in Bharatpur circle, the difference between the actual energy consumed by the consumers with defective meters and billed by the circle has been arrived at 9.09% (i.e. percentage of energy loss due to deficient metering). To estimate the commercial loss due to deficient metering, the LT sample study results on deficient metering were extrapolated on the circle first and compared the same with the estimated energy billed by the DISCOM to such consumers from June to September 2012. As per the LT sample study, it was estimated that energy billed on account of deficient metering will be 65.30MU as against 59.37MU billed by the DISCOM. Hence, the commercial loss (as the difference between the LT study result and billed by the DISCOM) due to deficient metering was computed at 6.01 MU, i.e. 1.82%with respect to the total energy input in the circle (326.52 MU).

The formula to extrapolate the Commercial loss due to deficient metering is shown below:

(A) Energy consumption recorded in the field studies for the consumers with defective meter – M1

(B) Energy billed by the department to such consumer - M2

(C) Commercial Loss due to deficient metering (%) – M3 = (M1-M2)/M1

(D) Total energy billed by the department to the consumers in the circle with defective meter – M4

(E) Extrapolating the LT survey results on the defective meter billing of the circle - (M5=(M4/(1-M3))

(F) Commercial loss due to deficient metering in the circle - (M6=M5 - M4)

(G) Percentage of commercial loss due to deficient metering in terms of energy input in the circle - (M7 = M6/ energy input)

Detailed computation regarding component wise energy loss in all the four circles is enclosed as "Annexure V" in Volume – II of this report.

Loss due to billing inefficiency

Table 22 shows the commercial loss due to billing inefficiency. The actual findings from the sample have been extrapolated on the overall un-metered consumers of the circle.

Table 22: Commercial loss due to billing inefficiency in Bharatpur

Particulars	1 month consumption as per Field studies (Units)	1 month consumption as per DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM (MU)	Energy billed as per the field study (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	2 (B1)	3 (B2)	4 (B3 = (B1-B2)/B1))	5 (B4)	6 (B5=B4/ (1-B3))	7 (B6=B5 - B4)	8 (B7=B6 /energy input)
Loss due to billing inefficiency	27.90	25.20	10.71%	3.96	4.43	0.47	(0.47/ 326.52) = 0.15%

Source: Field studies

From the sample LT study in Bharatpur, the difference between the actual energy consumed by the consumers and billed by the circle to such consumers had been arrived at 10.71%. To estimate the commercial loss due to billing inefficiency, the LT sample study results on billing inefficiency were extrapolated on the circle first and compared the same with the energy billed by the DISCOM to such consumers from June to September 2012. As per the LT sample study, it was estimated that energy billed on account of billing inefficiency will be 4.43MU as against 3.96MU billed by the DISCOM (estimated). Therefore, the commercial loss (as the difference between the LT study result and billed by the DISCOM) due to billing inefficiency was computed at 0.48 MU i.e. 0.15% with respect to the total energy input in the circle (326.52 MU).

The formula to extrapolate the Commercial loss due to billing inefficiency is shown below:

(A) Energy consumption recorded in the field studies for the consumers billed on provisional basis– B1

(B) Energy billed by the department to such consumer - B2

(C) Commercial Loss due to billing inefficiency (%) – B3 = (B1-B2)/B1

(D) Energy billed by the DISCOM to the consumers in the circle – B4

(E) Extrapolating the energy billed as per the field study due to billing inefficiency in the circle - (B5=B4/(1-B3))

(F) Commercial loss due to billing inefficiency in the circle - (B6=B5 - B4)

(G) Percentage of commercial loss due to billing inefficiency in terms of energy input in the circle - (B7=B6 /energy input)

Loss due to collection inefficiency

Total unit billed and unit realized and losses due to collection inefficiency of the circle are presented in the following Table:

Table 23: Commercial loss due to collection inefficiency in Bharatpur (June to Sept. 2012)

Particulars	MU
Energy billed (MU) [A]	197.89
Energy realized (MU) [B]	171.41
Commercial loss (MU) **[C] = [A] – [B]**	**26.48**
Energy input in the circle (MU) [D]	326.52
Percentage of energy loss due to collection inefficiency (%) [E] = [C]/[D]	**8.11%**

Source: Field studies

The above Table shows that the department has billed around 197.89MU and realized only 171.41MU due to non-recovery of payment from the consumers.

Hence, the energy loss incurred by the department due to collection inefficiency was 26.48MU, i.e. 8.11% in terms of total energy input in the circle (326.52 MU).

4.1.5 Loss due to theft/pilferage of energy

Table 24 shows the energy lost due to theft/pilferage of energy in Bharatpur circle from June to September 2012.

Table 24: Commercial loss due to theft/pilferage of energy in Bharatpur (June to Sept. 2012)

Particulars	MU	In percentage
Total commercial loss (MU) [A]	111.49	34.15%
Losses on account of deficient metering, billing and collection inefficiencies (MU) [B]	32.89	10.07%
Energy loss due to theft/pilferage (MU) [C] = [A] – [B]	**78.60**	
Energy input in the circle (MU) [D]	326.52	
Percentage of energy loss due to theft/pilferage (%)[E] = [C]/[D]		**24.07%**

Total commercial loss in the circle was 111.49 MU. Commercial loss on account of deficient metering, billing and collection inefficiencies added upto 32.89MU. Accordingly, the commercial loss due to theft and pilferage of energy in Bharatpur circle was computed at 78.60MU, i.e. 24.07% in terms of total energy input in the circle (326.52 MU).

4.2 Nagaur circle

4.2.1 AT&C losses in Nagaur circle from June to September 2012

Table 25 shows the estimated AT&C losses of Nagaur circle from June to September 2012.

Table 25: Estimated AT&C losses in Nagaur (June to Sept. 2012)

Particulars	MU	In percentage
Energy input in the circle (MU) [A]	769.24	
Unit billed (MU) [B]	529.67	
T&D Losses (MU) [C] = [A]- [B]	239.57	
T&D Losses (%) [D] = ([A]-[B])/[A]	--	31.14%
Revenue Billed (₹ Crore) [E]	162.35	
Revenue realized (₹ Crore) [F]	149.36	
Collection Efficiency (%) [G]=[F]/[E]	--	92.00%
AT&C Losses (MU) [H] = [A]-([B]*[G])	281.95	
AT&C Losses (%) [I] = ([A]-([B]*[G]))/[A]	--	36.65%

Source: AVVNL, Field Studies

Following are the highlights of the AT&C losses in Nagaur circle from June to September 2012:

- The actual energy input during the study period was 769.24 MU. Against that the circle has billed 529.67 MU, which led to T&D losses of 239.57MU i.e. 26.58%. As per the DISCOM's records energy billed during the study period was 769.24 MU. However, with respect to the energy billed to the flat rate agriculture consumer's a difference of 35.10 MU between the field studies and billed by the DISCOM has been found. Accordingly, 35.10 MU has been deducted from the total energy billed.
- Against the energy sold, the circle has billed ₹ 162.35 Crore and realized only ₹ 149.36 Crore. Hence, the collection efficiency of the circle was 92.00%.
- Based on the above, the AT&C losses of the circle have been computed at 36.65% i.e. energy loss of 281.95MU against the energy input of 769.24 MU.

4.2.2 Component wise technical loss of Nagaur circle

Detailed computation of component wise technical loss of Nagaur circle is shown in the Table below.

Table 26: Component wise technical loss in Nagaur (June to Sept. 2012)

Particulars	MU	Components of technical loss (%)
HT loss from 132 kV to 11 kV [A]	39.92	5.19%
Technical loss below 11 kV [B]	63.56	8.26%
Total technical loss [C]=[A]+[B]	**103.48**	
Energy input in the circle [D]	769.24	
Percentage of technical loss in terms of energy input in the circle (%) [E] = [C]/[D]	**--**	**13.45%**

Source: AVVNL, Field studies

As seen in Table 26, the total technical loss in Nagaur circle was 103.48 MU, which is 13.45% of the energy input (769.24 MU) in the circle. The HT and LT technical loss account for 5.19% and 8.26% respectively.

4.2.3 Commercial loss in Nagaur circle

Estimated commercial loss of Nagaur circle from June to September 2012 is presented below:

Table 27: Commercial loss of Nagaur (June to Sept. 2012)

Particulars	MU	In percentage
AT&C losses (MU) [A]	281.95	36.65%
Technical loss (MU) [B]	103.48	13.45%
Commercial loss (MU) [C] = [A] – [B]	**178.46**	
Energy input in the circle [D]	769.24	
Commercial loss (%) [E] = [C]/[D]	**--**	**23.20%**

Source: Field studies

As depicted in the Table commercial loss in Nagaur circle was 23.20%. Component wise analysis of commercial loss in Nagaur circle is discussed in the next section.

4.2.4 Component wise commercial loss in Nagaur circle

Loss due to deficient metering

As shown in the Table below, around 6.02 MU i.e. 0.78%of the total energy has been lost due to deficient metering in Nagaur circle.

Table 28: Commercial loss due to deficient metering in Nagaur (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to provisional billing to the consumers (MU)	Energy loss with respect to energy billed by the DISCOM (%)
Commercial loss due to deficient metering in Nagaur circle [A]	56.17	50.15	6.02	10.71%
Percentage of energy loss due to deficient metering (%) [B] = Commercial loss due to deficient metering /Energy input in the circle	(6.02/769.24) = 0.78%			

Source: Field studies

From the sample LT study in the Nagaur circle, the difference between the actual energy consumed by the consumers with defective meters and billed by the circle on provisional billing has been arrived at 10.71% (i.e. percentage of energy loss due to deficient metering). To estimate the commercial loss due to deficient metering, the LT sample study results on deficient metering were extrapolated on the circle first and compared the same with the energy billed by the DISCOM to such consumers (estimated) from June to September 2012. As per the LT sample study, it was estimated that energy billed on account of deficient metering will be 56.17 MU as

against 50.15 MU billed by the DISCOM. Hence, the commercial loss (as the difference between the LT study result and billed by the DISCOM) due to deficient metering was computed at 6.02 MU, i.e. 0.78% with respect to the total energy input in the circle (769.24 MU).

Loss due to billing inefficiency

Table 29 shows the commercial loss due to billing inefficiency in the Nagaur circle.

Table 29: Commercial loss due to billing inefficiency in Nagaur (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to billing inefficiency (MU)	Energy loss due to energy billed by the DISCOM (%)
Commercial loss due to billing inefficiency in Nagaur circle [A]	90.00	81.08	8.92	9.91%
Percentage of energy loss due to billing inefficiency (%) [B] = Energy loss due to billing inefficiency/ Energy input in the circle	(8.92/769.24) = 1.16%			

Source: Field studies

From the sample LT study in Nagaur circle, the difference between the actual energy consumed by the consumers and billed by the circle to such consumers on provisional basis has been arrived at 9.91%. The LT sample study results on billing inefficiency were extrapolated on the circle first and compared the same with the energy billed by the DISCOM (estimated) to such consumers from June to September 2012. As per the LT sample study, it was estimated that energy billed on account of billing inefficiency will be 90.00 MU as against 81.08 MU billed by the DISCOM. Therefore, the commercial loss (as the difference between the LT study result and

billed by the DISCOM) due to billing inefficiency was computed at 8.92 MU i.e. 1.16%with respect to the total energy input in the circle (769.24 MU).

Loss due to collection inefficiency

Total unit billed and unit realized and losses due to collection inefficiency of the circle are presented in the following Table.

Table 30: Commercial loss due to collection inefficiency in Nagaur (June to Sept. 2012)

Particulars	MU
Energy billed (MU) [A]	529.67
Energy realized (MU) [B]	487.29
Commercial loss (MU) **[C] = [A] – [B]**	**42.37**
Energy input in the circle (MU) [D]	769.24
Percentage of energy loss due to collection inefficiency (%) [E] = [C]/[D]	**5.51%**

Source: Field studies

The above Table shows that the DISCOM has billed 529.67MU and against that realized only 487.29MU due to non-recovery of bills from the consumers. Hence, the energy loss incurred by the DISCOM due to collection inefficiency was 42.37MU, 5.51%of the energy input in the circle (769.24).

4.2.5 Loss due to theft/pilferage of energy

Table 31 shows the energy lost due to theft/pilferage of energy in Nagaur circle from June to September 2012.

Table 31: Commercial loss due to theft/pilferage of energy in Nagaur (June to Sept. 2012)

Particulars	In (MU)	In percentage
Total commercial loss (MU) [A]	178.46	23.20%
Losses on account of efficient metering, billing and collection inefficiencies (MU) [B]	57.30	7.45%
Energy loss due to theft/pilferage (MU) [C] =	**121.16**	

Particulars	In (MU)	In percentage
[A] – [B]		
Energy input in the circle (MU) [D]	769.24	
Percentage of energy loss due to theft/pilferage (%) [E] = [C]/[D]	**--**	**15.75%**

Source: Field studies

As shown above, total commercial loss in the circle was 178.46MU. Commercial loss on account of deficient metering, billing and collection inefficiencies added upto57.30 MU. Accordingly, the commercial loss due to theft and pilferage of energy in Nagaur circle was computed at 121.16MU i.e. 15.75%of the total energy input in the circle (769.24 MU).

4.3 Churu circle

4.3.1 AT&C losses in Churu circle from June to September 2012

The following Table shows the estimated AT&C losses of Churu circle from June to September 2012.

Table 32: Estimated AT&C losses of Churu (June to Sept. 2012)

Particulars	MU	In percentage
Energy input in the circle (MU) [A]	484.81	
Unit billed (MU) [B]	354.29	
T&D Losses (MU) [C] = [A]- [B]	130.52	
T&D Losses (%) [D] = ([A]-[B])/[A]	---	26.92%
Revenue Billed (₹ Crore) [E]	124.12	
Revenue realized (₹ Crore) [F]	111.76	
Collection Efficiency (%) [G]=[F]/[E]	---	90.04%
AT&C Losses (MU) [H] = [A]-([B]*[G])	165.79	
AT&C Losses (%) [I] = ([A]-([B]*[G]))/[A]	---	34.20%

Source: JdVVNL, Field studies

As shown in Table 32:

- The actual energy input in the circle during the study period was 484.81 MU. Against that energy billed has been computed at 354.29 MU. , which led to T&D losses of 130.52MU i.e. 26.92%.
- During the study period, the circle has billed ₹ 124.12 Crore and realized only ₹ 111.76 Crore. Hence, the collection efficiency of the circle was 90.04%.
- Based on the above, the AT&C losses of the circle have been computed at 34.20%i.e. energy loss of 165.79MU against the energy input of 484.81 MU.

4.3.2 Technical loss of Churu circle

The component wise technical loss is shown in the following Table.

Table 33: Component wise technical loss in Churu (June to Sept. 2012)

Particulars	MU	Component wise technical loss (%)
HT loss from 132 kV to 11 kV [A]	21.39	4.41%
Technical loss below 11 kV [B]	42.52	8.77%
Total technical loss [C]=[A]+[B]	**63.90**	
Energy input in the circle [D]	484.81	
Percentage of technical loss in terms of energy input in the circle (%) [E] = [C]/[D]	**---**	**13.18%**

Source: JdVVNL, Field studies

As seen in Table 33, the total technical loss in Churu circle was 63.90MU, which is 13.18% of the total energy input (484.81 MU) in the circle. The HT and LT technical loss account for 4.41% and 8.77% with respect to the total energy input in the circle .

4.3.3 Commercial loss of Churu circle

The commercial loss of the circle has been arrived at by deducting the technical loss of the circle from the overall AT&C losses of the circle. The estimated commercial loss of Churu circle is computed below:

Table 34: Commercial loss of Churu (June to Sept. 2012)

Particulars	MU	Loss (%)
AT&C losses (MU) [A]	165.79	34.20%
Technical loss (MU) [B]	63.90	13.18%
Commercial loss (MU) [C] = [A] – [B]	**101.89**	
Energy input in the circle [D]	484.81	
Commercial loss (%) [E] = [C]/[D]	**---**	**21.02%**

Source: Field studies

It can be seen that the commercial loss in Churu circle was 21.02%. The component wise analysis of the commercial loss has been discussed in the following section.

4.3.4 Component wise commercial loss in Churu circle

Loss due to deficient metering

Estimated commercial loss due to deficient metering in Churu circle from June to September 2012 is shown in Table 35.

Table 35: Commercial loss due to deficient metering in Churu circle (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to provisional billing to the metered consumers (MU)	Energy loss with respect to energy billed by the DISCOM (%)
Commercial loss due to deficient metering in Churu circle [A]	77.98	67.81	10.17	13.04%
Percentage of energy loss due to deficient metering (%) [B] = Commercial loss due to deficient metering /Energy input in the circle	(10.17/ 484.81) = 2.10%			

Source: Field studies

It can be seen from Table 35 that 10.17 MU have been lost due to deficient metering in the circle. In terms of total energy input of the circle this type of loss constitutes 2.10%.

Loss due to billing inefficiency

Table 36 shows the commercial loss due to billing inefficiency. The actual findings from the sample have been extrapolated on the overall un-metered consumers of the circle.

Table 36: Commercial loss due to billing inefficiency in Churu circle (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to billing inefficiency (MU)	Energy loss due to energy billed by the DISCOM (%)
Commercial loss due to billing inefficiency in Churu circle [A]	52.70	44.29	8.42	15.97%
Percentage of energy loss due to billing inefficiency [B] (%) = Energy loss due to billing inefficiency/ Energy input in the circle	(8.42/484.81) = 1.74%			

Source: Field studies

Losses due to billing inefficiency accounted for 1.74% of the energy input of the circle i.e. 8.42MU against the energy input of 484.81 MU.

Loss due to collection inefficiency

Total unit billed and unit realized and losses due to collection inefficiency of the circle are presented in the following Table.

Table 37: Commercial loss due to collection inefficiency in Churu (June to Sept. 2012)

Particulars	MU
Energy billed (MU) [A]	354.29
Energy realized (MU) [B]	319.02
Commercial loss (MU) **[C] = [A] – [B]**	**35.27**
Energy input in the circle (MU) [D]	484.81
Percentage of energy loss due to collection inefficiency (%) [E] = [C]/[D]	**7.28%**

Source: Field studies

The above Table shows that the DISCOM has billed 354.29MU and against that realized only 319.02MU due to non-recovery of bills from the consumers. Hence, the energy loss incurred by the department due to collection inefficiency was 35.27MU i.e. 7.28%of the total energy input (484.81 MU) in the circle.

Loss due to theft/pilferage of energy

Table 40 shows the commercial loss due to theft/pilferage of energy in Churu circle from June to September 2012.

Table 38: Commercial loss due to theft/pilferage of energy in Churu (June to Sept. 2012)

Particulars	In (MU)	In percentage
Total commercial loss (MU) [A]	101.89	21.02%
Losses on account of deficient metering, billing and collection inefficiencies (MU) [B]	53.86	11.11%
Energy loss due to theft/pilferage (MU) [C] = [A] – [B]	**48.03**	
Energy input in the circle (MU) [D]	484.81	
Percentage of energy loss due to theft/pilferage (%) [E] = [C]/[D]	**---**	**9.91%**

Source: Field studies

As shown above, total commercial loss in the circle was 101.89MU. The commercial loss on account of deficient metering, billing and collection inefficiencies added upto 53.86MU. Accordingly, the commercial loss due to theft and pilferage of energy in Churu circle was computed at 48.03MU i.e. 9.91%of the total energy input in the circle.

4.4 Barmer

4.4.1 AT&C losses in Barmer circle from June to September 2012

The following table shows the estimated AT&C losses of Barmer circle from June to September 2012.

Table 39: Estimated AT&C losses of Barmer (June to Sept. 2012)

Particulars	MU	In percentage
Energy input in the circle (MU) [A]	316.95	
Unit billed (MU) [B]	267.75	
T&D Losses (MU) [C] = [A]- [B]	49.20	
T&D Losses (%) [D] = ([A]-[B])/[A]	---	15.52%
Revenue Billed (₹ Crore) [E]	104.35	
Revenue realized (₹ Crore) [F]	94.59	
Collection Efficiency (%) [G]=[F]/[E]	---	90.64%
AT&C Losses (MU) [H] = [A]-([B]*[G])	74.26	
AT&C Losses (%) [I] = ([A]-([B]*[G]))/[A]	---	23.43%

Source: JdVVNL, Field studies

It can be seen from Table 39:

- The actual energy input in the circle during the study period was 316.95 MU. Against that energy billed has been computed at 267.75 MU, which led to T&D losses of 49.20 MU i.e. 15.52%.
- During the study period the circle has billed ₹ 104.35 Crore and realized only ₹ 94.59 Crore. Hence, the collection efficiency of the circle was 90.64%.
- Based on the same, the AT&C losses of the circle have been computed at 23.43% i.e. energy loss of 74.26 MU against the energy input of 316.95 MU.

4.4.2 Technical loss of Barmer circle

Component wise technical loss is shown in the following Table.

Table 40: Component wise technical loss in Barmer (June to Sept. 2012)

Particulars	MU	Component wise technical loss (%)
HT loss from 132 kV to 11 kV [A]	14.99	4.73%
Technical loss below 11 kV [B]	**19.79**	6.24%
Total technical loss [C]=[A]+[B]	**34.78**	
Energy input in the circle [D]	316.95	
Percentage of technical loss in terms of energy input in the circle (%) [E] = [C]/[D]	---	10.97%

Source: JdVVNL, Field studies

As seen in Table 41, the total technical loss in Barmer circle was 34.78 MU, which is 10.97% of the total energy input (316.95 MU) in the circle. The HT and LT technical loss account for 4.73% and 6.24% with respect to the total energy input in the circle.

4.4.3 Commercial loss of Barmer circle

Estimated commercial loss of Barmer circle from June to September 2012 is presented below:

Table 41: Commercial loss in Barmer (June to Sept. 2012)

Particulars	MU	Loss (%)
AT&C losses (MU) [A]	74.26	23.43%
Technical loss (MU) [B]	34.78	10.97%
Commercial loss (MU) [C] = [A] – [B]	**39.49**	**12.46%**
Energy input in the circle [D]	**316.95**	
Commercial loss (%) [E] = [C]/[D]	**---**	**12.46%**

Source: Field studies

It can be seen that the commercial loss in Barmer circle was almost 12%. Component wise analysis of the same is described in the following section.

4.4.4 Component wise commercial loss in Barmer circle

Loss due to deficient metering

Commercial loss due to deficient metering of the consumers in Barmer circle is shown in the following Table.

Table 42: Commercial loss due to deficient metering in Barmer (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to provisional billing to the metered consumers (MU)	Energy loss with respect to energy billed by the DISCOM (%)
Commercial loss due to deficient metering in Barmer circle [A]	11.29	10.71	0.58	5.12%
Percentage of energy loss due to deficient metering (%) [B] = Commercial loss due to deficient metering /Energy input in the circle	(0.58/316.95) = 0.18%			

Source: Field studies

As can be seen, close to 0.58 MU was lost due to deficient metering in the circle, which is 0.18% of the total energy input of the circle.

Loss due to billing inefficiency

Commercial loss due to billing inefficiency in the circle is shown below.

Table 43: Commercial loss due to billing inefficiency in Barmer (June to Sept. 2012)

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to billing inefficiency (MU)	Energy loss due to energy billed by the DISCOM (%)
Commercial loss due to billing inefficiency in	8.64	8.03	0.60	6.98%

Particulars	Energy to be billed as per field studies (MU)	Energy billed by the DISCOM (MU)	Energy loss due to billing inefficiency (MU)	Energy loss due to energy billed by the DISCOM (%)
Barmer circle [A]				
Percentage of energy loss due to billing inefficiency [B] (%) = Energy loss due to billing inefficiency/ Energy input in the circle	(0.60/316.95) = 0.19%			

Source: Field studies

Loss due to collection inefficiency

Total unit billed and unit realized and losses due to collection inefficiency of the circle are presented in the following Table.

Table 44: Commercial loss due to collection inefficiency in Barmer (June to Sept. 2012)

Particulars	MU
Energy billed (MU) [A]	267.75
Energy realized (MU) [B]	242.69
Commercial loss (MU) **[C] = [A] – [B]**	**25.06**
Energy input in the circle (MU) [D]	316.95
Percentage of energy loss due to collection inefficiency (%) [E] = [C]/[D]	**7.91%**

Source: Field studies

The above table shows that the department has billed around 267.75 MU and against that realized 242.69 MU due to non-recovery of bills from the consumers. Hence, the energy loss incurred by the department due to collection inefficiency was 25.06 MU, around 7.91% of the total energy input (316.95 MU) in the circle.

Loss due to theft/pilferage of energy

Table 45 shows the commercial loss due to energy theft/pilferage in Barmer circle from June to September 2012.

Table 45: Commercial loss due to theft/pilferage of energy in Barmer (June to Sept. 2012)

Particulars	In (MU)	In percentage
Total commercial loss (MU) [A]	39.49	12.46%
Losses on account of efficient metering, billing inefficiency and collection inefficiency (MU) [B]	26.24	8.28%
Energy loss due to theft/pilferage (MU) [C] = [A] – [B]	**13.24**	
Energy input in the circle (MU) [D]	316.95	
Percentage of energy loss due to theft/pilferage (%) [E] = [C]/[D]	**---**	**4.18%**

Source: Field studies

Total commercial loss in the circle was 39.49 MU. Commercial loss on account of efficient metering, billing and collection inefficiencies added upto 26.24 MU. Hence, the commercial loss due to theft and pilferage of energy in Barmer circle was 13.24 MU i.e. 4.18% of the total energy input in the circle (316.95 MU).

4.5 Technical loss in the circles and reasons thereof:

LT/HT ratio: It is observed that the LT system in Bharatpur, Nagaur and Churu circles is because of higher LT/HT ratio as compared to Barmer circle. The following Table shows the LT/HT ratio in the four representative circles.

Table 46: LT/HT ratio in four representative circles (FY 2011-12)

Particulars	Bharatpur	Nagaur	Churu	Barmer
33 kV lines	736.00	2637.42	1554.43	3707.00
11 kV lines	6046.00	16134.59	11106.10	24624.59
LT lines	5672.74	13377.23	9250.61	15180.59
LT/HT Ratio	**0.84**	**0.71**	**0.73**	**0.54**

Source: JVVNL, AVVNL, JdVVNL and RERC

It can be seen that Barmer has lowest LT/HT ratio in comparison to the other three representative circles. As result, technical loss in the LT system in Barmer is lower vis-à-vis the other three circles.

It was also found during the field study that maintenance of the substations as well as the DTs is upto the desired level. As highlighted in the previous chapter a large number of CT/PTs in the sub-stations are damaged. We found that the burnt rate of the DTs is relative high. The key reasons for the burnt DTs are non-replacement of transformer oil on regular basis and ageing of the DTs. This also contributed to technical loss in the distribution system.

4.6 Commercial loss in the circles and reasons thereof:

4.6.1 Energy loss due to theft/pilferage

Our AT&C losses analysis of the four circles has shown that a substantial quantum of energy is lost due to theft/pilferage. Our domestic LT survey was carried out at the areas, where regular vigilance check is carried out by the department. There are

other areas in the circle, where regular vigilance check is not done by the department and in that case energy theft would be much higher.

Various modes of energy theft as observed during our field study are highlighted below.

1. **Meter bypass:** It has been noticed that in some consumer premises line from the electrical poles are directly connecting the MCP/RCP – bypassing the meter and the same has been presented in the following Exhibit.

Exhibit 16: Energy theft by bypassing the meter

Energy theft through bypassing of the meter in Churu Circle(Meter no. 713012)

This practice of bypassing of meter found in the domestic connection. These types of consumers are using more than more load than sanctioned in their households and to avoid paying high amount of energy bills they are resorting to this kind of illegal practice. At the time of vigilance check the consumer connect the line with the meter to avoid detection and later on resume their illegal practice.

2. **Meter tempering:** Tempering of meter is another way of theft of energy. We have found a number of consumers with tempered meters as shown in the following exhibit. The consumers by this illegal practice directly draw energy from the LT system without paying any charges to the DISCOM.

Exhibit 17: Tempered meters found in the consumer premises

Tempered meter (with broken seal) in a consumer premises with meter no. 9198903 in Churu

Tempered meter (with broken seal) in a consumer premises with meter no. 617794 in Churu

4.6.2 Defective meters

High percentage of defective meters is one of the reasons for provisional billing as well as commercial loss in the circle. More than 5% of the energy meters installed at the consumer premises are defective. At the time of LT survey it was found that the meters have not been replaced for more than 3 months by the department despite filing applications by the consumers more than once

In other cases, it was found that the consumers deliberately conceal the information regarding defect in the meter. With the assistance of the local linemen/meter reader, the consumer takes the benefit of provisional billing.

Unlike the technical loss, reducing the commercial loss does not require a large amount of investment. The commercial loss can be reduced by developing a strategic objective/road map to reduce the loss and adhering to a timeline for the same. However, such things are clearly missing from the organization goals of the DISCOMs in Rajasthan.

5. Chapter 5: Extrapolation of the AT&C losses

5.1 Assumptions for extrapolation

- It was found during the field studies that the commercial loss in the industrial, commercial and other categories (railway traction, bulk supply, public lighting and water works) in the circles was around 5%. It can be inferred that around 95%[13] of the commercial loss in the circles was mainly in the domestic and agriculture categories. Based on this consideration, 95% of the commercial loss in the circles has been allocated to the domestic and agriculture categories to extrapolate the commercial loss of each representative circle on the DISCOMs, respectively.

- It is also observed that as the sales mix of the domestic and agriculture consumers varies between the representative circles and the DISCOMs, the point estimate[14] of the AT&C losses of the DISCOMs would not be reasonable. In consultation with the FoR Secretariat, it was decided that range estimate[15] would be used to extrapolate the AT&C losses of the circles on the DISCOMs in the State of Rajasthan. The standard deviation between the domestic and agriculture sales mix in the representative circles and those of the DISCOMs has been computed and the same has been utilized to extrapolate the AT&C losses range for the DISCOMs.

- It is further assumed that the technical loss component of the DISCOMs would remain at the same level as computed for the circles.

- The extrapolation of the AT&C losses has been done only for the study period i.e. from June to September 2012 and not for the full FY 2012-13.

[13] Based on consumer wise collection efficiency data

[14] **Point estimate:** If an estimate of a population parameter is given by a single value, then the estimate is called point estimate of the parameter.

[15] **Range estimate:** If an estimate of a population parameter describes a range of values between which the parameter may be considered to lie, then the estimate is called range estimate of the parameter.

5.2 Extrapolation of circle wise AT&C losses on the four DISCOMs

Step 1: Allocation of the commercial loss in the circles on domestic and agriculture consumers

Firstly, 95% of the commercial loss of the circles during the period June – September 2012 has been allocated on the domestic and agriculture consumers. The formula for allocating the commercial loss of the circles on the domestic and agriculture consumers are mentioned below:

Allocation of 95% of the commercial loss to domestic and agriculture categories	=	*Total commercial loss of the circles [A] X 95% [B] (i.e. 95% of the commercial loss allocated to domestic and agriculture consumers)*

The following Table shows the 95% commercial loss allocation of the circles to the domestic and agriculture consumers during the period June – September 2012.

Table 47: Allocation of the commercial loss on domestic and agriculture consumers (June – Sept. 2012)

Particulars	Bharatpur	Nagaur	Churu and Barmer
Commercial loss in the circles [A]	111.49	141.95	141.37
Distributing 95% of the commercial loss (MU) on the domestic and agriculture consumers [B] = [A] *95%	105.92	134.86	134.30

Step 2: Computation of commercial loss factor on account of energy sold to the domestic and agriculture consumers in each of the four representative circles.

Here, the commercial loss factor on account of energy sold to the domestic and agriculture consumers in the circles has been computed. The objective of computing the commercial loss factor is to work out a unique factor for each of the four circles that can be applied on the energy input in the of the respective DISCOMs for extrapolation.

To compute the commercial loss factor, the allocated commercial loss with respect to energy input in the circles has been computed and then divided by the ratio of energy sold (MU) to the domestic and agriculture consumers with respect to total energy sold (MU) in the circles.

The formula for computing the commercial loss factor is presented below:

$$\textit{Commercial loss factor} = \frac{\textit{(Commercial loss (MU) allocated to domestic and agriculture consumers [A]/Energy input (MU) in the circles [B])}}{\textit{(Energy sold (MU) to the domestic and agriculture consumers[C]/Total energy sold (MU) in the circle [D])}}$$

The commercial loss factor of four representative circles is shown in the Table below:

Table 48: Commercial loss factors for the domestic and agriculture consumers (June – Sept. 2012)

Particulars	Bharatpur	Nagaur	Churu and Barmer
Commercial loss on account of domestic and agriculture consumers (MU) [A]	111.49	141.95	141.37
Energy input in the circles (MU) [B]	326.52	769.24	801.76
Energy sold (MU) to the domestic and agriculture consumers[C]	117.41	424.50	278.09
Total energy sold (MU) in the circle [D]	197.90	533.50	653.38
Commercial loss factor [E] = ([A]/ [B])/([C]/ [D])	0.54674	0.22033	0.21341

Step 3: Computation of Standard Deviation of energy sold to the domestic and agriculture consumers in the four representative circles and the DISCOMs

The computation of Standard Deviation of energy sold to the domestic and agriculture consumers in the four representative circles and the DISCOMs is presented in the following Table.

Table 49: Standard deviation

	Bharatpur	JVVNL	Nagaur	AVVNL	Churu and Barmer	JdVVNL
Energy sold to the domestic and agriculture consumers (%)	59.33%	49.85%	79.57%	58.52%	74.81%	82.79%
Standard Deviation	0.0670 or 6.70%		0.1488 or 14.88%		0.0565 or 5.65%	

Source: JVVNL, AVVNL, JdVVNL and Field studies

Step 4: Computation of lower and upper limits of the commercial loss of the DISCOMs.

To compute the lower and upper limits of commercial loss of the DISCOMs, the commercial loss factors of the circles computed in Step 2 have been multiplied with the domestic and agriculture sales mix of the DISCOMs by taking into account the Standard Deviations of domestic and agriculture sales mix between the four representative circles and DISCOMs . The formula for computation of lower and upper limits of the commercial loss of the DISCOM is presented below.

Lower limit of the commercial loss in the DISCOMs = *Commercial loss factors of the Circles [A] X (Domestic and Agriculture Sales mix of the DISCOMs [B] – Standard Deviation[C])*

Upper limit of the commercial loss in the DISCOMs = *Commercial loss factors of the Circles [A] X (Domestic and Agriculture Sales mix of the DISCOMs [B] + Standard Deviation[C])*

The lower and upper limits of the commercial loss for each DISCOM in the State of Rajasthan are presented in the Table below:

Table 50: Lower and upper limits of commercial loss of the DISCOMs (June – Sept. 2012)

Particulars	JVVNL	AVVNL	JdVVNL
Commercial loss factor [A]	0.54674	0.22033	0.21341
Domestic and agriculture sales mix of the DISCOMs (%) [B]	49.85%	58.52%	82.79%
Standard Deviation (%) [C]	6.70%	14.88%	5.65%
Lower limit of the commercial loss in the DISCOMs (%) [D] =[A]*([B]-[C])	23.59%	9.61%	16.46%
Upper limit of the commercial loss in the DISCOMs (%) [D] =[A]*([B]+[C])	30.92%	16.17%	18.87%

Step 5: Computation of extrapolation factor

It is assumed that 95% of the commercial loss incurred due to energy sold to the domestic and agriculture consumers. An extrapolation factor has been computed to extrapolate the total commercial loss of the DISCOMs. The formula for computing the extrapolation factor is shown below.

Extrapolation Factor = 100/95 =1.05 (will be applicable for all the DISCOMs)

Step 6: AT&C losses of the DISCOMs

1. To extrapolate the AT&C losses of the DISCOMs, the lower and upper limits of the commercial loss due to energy sold to the domestic and agriculture

consumers is computed first. The formula for computation of lower and upper limits of the commercial loss is shown below:

Lower limit of commercial loss of the DISCOMs due to energy sold to the domestic and agriculture consumers (MU)	=	*Energy input in the DISCOM (MU)* *X* *Lower limit of the commercial loss in the DISCOMs (%) computed in Step 4*
Upper limit of commercial loss of the DISCOMs due to energy sold to the domestic and agriculture consumers (MU)	=	*Energy input in the DISCOM (MU)* *X* *Upper limit of the commercial loss in the DISCOMs (%)computed in Step 4*

2. The extrapolation factor computed here then applied on the lower and upper limits of the commercial loss of the DISCOMs to calculate the total commercial loss of the DISCOMs as shown below:

Total commercial loss of the DISCOMs – lower limit (MU)	=	*Lower limit of commercial loss of the DISCOMs* *X* *Extrapolation factor*
Total commercial loss of the DISCOMs – upper limit (MU)	=	*Upper limit of commercial loss of the DISCOMs* *X* *Extrapolation factor*

3. After calculating the total commercial loss (MU), the percentage of commercial loss in terms of energy input in the DISCOMs has been computed. The formula of the same is mentioned below:

Percentage of commercial loss of the DISCOMs – lower limit (%)	=	*Energy input in the DISCOM (MU)* / *Total commercial loss of the DISCOMs – lower limit (MU)*
Percentage of commercial loss of the DISCOMs – upper limit (%)	=	*Energy input in the DISCOM (MU)* / *Total commercial loss of the DISCOMs – upper limit (MU)*

4. The AT&C losses range of the DISCOMs arrived after adding the technical loss of the circles with the lower and upper limits of the commercial loss of the DISCOMs as shown in the following formula.

AT&C losses of the DISCOMs – lower limit	=	*Total commercial loss of the DISCOMs – lower limit* + *Technical loss*
AT&C losses of the DISCOMs – upper limit	=	*Total commercial loss of the DISCOMs – upper limit* + *Technical loss*

5. The AT&C losses range of the four DISCOMs is shown in the following Table.

Table 51: Extrapolating the circle wise losses on the DISCOMs (June – Sept. 2012)

Sl. No.	Particulars	JVVNL	AVVNL	JdVVNL
1	Energy input in the DISCOMs (MU) [A]	6406.54	4535.15	5660.25
2	Extrapolation factor [B]	1.05	1.05	1.05
Computation of lower limit of the AT&C losses in the DISCOMs				
3	Lower limit of the commercial loss in the DISCOMs (%) [C]	23.59%	9.61%	16.46%
4	Lower limit of commercial loss of the DISCOMs due to energy sold to the domestic and agriculture consumers (MU) [D] = [A] X [C]	1511.24	436.02	931.91
5	Total commercial loss in the DISCOMs [E] = [D] X [B]	1590.78	458.97	980.96
6	Percentage of commercial loss in terms of energy input (%) [F] = [E]/[A]	24.83%	10.12%	17.33%
7	Technical loss in terms of energy input (%) [G]	13.36%	14.00%	12.41%
8	**AT&C losses (%)** [H]= [F]+[G]	38.19%	24.12%	29.74%
Computation of upper limit of the AT&C losses in the DISCOMs				
9	Upper limit of the commercial loss in the DISCOMs (%) [I]	30.92%	16.17%	18.87%
10	Lower limit of commercial loss of the DISCOMs due to energy sold to the domestic and agriculture consumers (MU)[J] = [A] X [I]	1980.89	733.46	1068.29
11	Total commercial loss in the DISCOMs [K] = [J] X [B]	2085.15	772.06	1124.52
12	Percentage of commercial loss in terms of energy input (%) [L] = [K]/[A]	32.55%	17.02%	19.87%
13	Technical loss in terms of energy input (%) [M]	13.36%	14.00%	12.41%
14	**AT&C losses (%)** **[N] =** [L]+[M]	45.91%	31.02%	32.28%

Step 7: Conclusion

The AT&C losses range of the DISCOMs as computed extrapolated above is shown in the following Table:

Table 52: AT&C losses of the DISCOMs (June to Sept. 2012)

Particulars	JVVNL		AVVNL		JdVVNL	
	LL	UL	LL	UL	LL	UL
AT&C losses	38.19%	45.91%	24.12%	31.02%	29.74%	32.28%

LL: Lower Limit
UL: Upper Limit

The study has also compared the AT&C losses computed in this study, reported by the DISCOMs and submitted to PFC by the DISCOMs. The following Table shows the difference between the AT&C losses figures as mentioned above.

Table 53: Comparison of AT&C losses figures of the DISCOMs

Particulars	JVVNL		AVVNL		JdVVNL	
	LL	UL	LL	UL	LL	UL
Computed in the study (June to Sept. 2013)	38.19%	45.91%	24.12%	31.02%	29.74%	32.28%
Reported by the DISCOMs (June to Sept. 2013)	29.81%		18.35%		31.31%	
Submitted to PFC (FY 2011-12)	23.18%		28.12%		23.82%	

It can be seen that the range of AT&C losses computed in this study are higher than that of reported by the DISCOMs. The reason of such difference would be methodology adopted for computation of AT&C losses in this study. Other reason could be the DISCOMs may under-stated their AT&C losses.

The AT&C losses figures submitted to PFC has captured all the seasons in FY 2011-12. Whereas, the AT&C losses figures computed in this study and reported by the DISCOMs covered only four months data i.e. June to September 2013.

6. Chapter 6: Recommendations and way forward

This chapter suggests a set of recommendations that could help the DISCOMs in reducing losses in short, medium and long term periods. The recommendations are for each classified categories – "A", "B" and "C" as discussed earlier.

6.1 ABC Analysis of the AT&C losses

The study proposes a set of recommendations based on the component wise AT&C losses analysis from the field studies and highlights the deficiency in the present system. The recommendations proposed in this report have been categorized in three buckets – "A", "B" and "C" in order of their importance for the DISCOMs. A loss reduction framework based on the "ABC" analysis is proposed in the following Table.

Table 54: ABC framework -issues for the proposed interventions to reduce the AT&C losses

Components of AT&C losses	Energy loss range in the representative circles	Interventions proposed
Category A		
(i) Commercial loss due to theft/ pilferage of energy *(The DISCOMs should treat this as the priority area for loss reduction as the existing losses could be reduced in the short and medium time period. To reduce these losses, minimum capital investment will be required. The DISCOMs need to strengthen its existing commercial practice.)*	*4.18% (Barmer) to 24.07% (Bharatpur)*	Identify and regularizing the un-metered and flat rate agriculture consumers to reduce agriculture theft. Short and medium term interventions such as metering of the un-metered consumers, regular vigilance check to reduce the energy theft in unmetered connections other than agriculture. Load shedding to be implemented first in the high loss areas in case of shortage of electricity.

Components of AT&C losses	Energy loss range in the representative circles	Interventions proposed
		DISCOMs may implement community metering system to create accountability on the consumers to assist the DISCOMs in detecting energy theft. Differential tariff by way of higher tariff in the high loss areas to be proposed to the regulator for approval in medium term.
(ii) Technical loss in the LT system *(The DISCOMs should also treat this as one of the priority areas for reduction of energy losses. Substantial capital investment would be required to minimize the technical loss in the LT system.)*	*6.24% (Barmer) to 9.22% (Bharatpur)*	Medium and long terms interventions to reduce the loss through implementation of the Ariel Bunched Cabling (ABC) and Advanced Metering Infrastructure (AMI). Improve the LT/HT ratio in the circles, where the losses are high.
Category B		
(iii) Commercial loss due to collection inefficiency *(The DISCOMs could strengthen its billing and collection department to reduce this energy loss in the short time period.)*	*5.51% (Nagaur) to 8.11% (Bharatpur)*	Short term measures to reduce the commercial loss due to collection inefficiency by way of linking the incentive for the staff with the increase in the billing and collection efficiency. To implement this scheme the DISCOMs should develop Key Performance Indicators (KPIs) and award scheme for the staff with an objective to reduce the commercial loss. In addition, the DISCOMs may consider installing pre-paid meters in the medium and long

Components of AT&C losses	Energy loss range in the representative circles	Interventions proposed
		terms.
(vi) Technical loss in the HT system *(The DISCOMs should take initiatives to reduce the technical loss in the HT system in the medium and long term. Substantial capital investment would be required to minimize the technical loss in the HT system.)*	*4.14% (Bharatpur) to 5.19% (Nagaur)*	In addition to the existing Feeder Renovation Program and implementation of HVDS system in the agriculture category, the DISCOMs should further looked into augmentation of new assets, load balancing etc.
Category C		
(v) Commercial loss due to deficient metering, and billing inefficiency *(The DISCOMs could strengthen its billing and collection department to reduce this energy loss in the short time period.)*	*0.15% (Bharatpur) to 2.10% (Churu)*	Short term measures to reduce the commercial loss due to collection inefficiency by way of linking the incentive for the staff with the increase in the billing and collection efficiency. In addition, the DISCOMs may consider installing pre-paid meters in the medium and long terms.

6.2 Recommendations

Interventions recommended in the short medium and long terms in the high energy loss areas (Category "A" Issues)

1. **Regular vigilance check:** The DISCOMs should conduct regular vigilance check in the rural area to identify un-metered connections and regularize them in a time bound manner. This is a common but an effective measure to control energy theft. To reduce the theft cases, the utilities should conduct impromptu vigilance raids, where the energy loss is higher or revenue realization is very less.
2. **Community metering:** This type of arrangement can be implemented in the slum areas, where the entire community of the slum would be metered at a single

location (where tempering is difficult) and all the community is billed based on the consumption determined by pro-rating using their individual meter read. Should one consumer pilfer energy it will result in the remaining members of the community paying more than their fair share of energy bills. This arrangement discourages the offender from direct community pressure.

3. **Implementation of load shedding first in the high loss areas in case of shortage of electricity:** The DISCOMs should consider implementing load shedding first in the high loss areas in case of shortage of electricity. This will built awareness among the consumers in the high loss areas that due to high energy loss, the DISCOMs are forced to implement load shedding in their areas and in turn would create pressure on the consumers involved in theft of energy for not doing the same.

4. **Implementation of differential tariff by way of higher tariff in the high loss areas:** The DISCOMs should propose differential tariff by way of higher tariff in the high loss areas. Higher tariff would force the consumers in the high loss areas to reduce theft of energy.

5. **Involve the community to reduce theft:** The DISCOMs should also take initiatives to involve the Gram Panchayats and User Associations to reduce energy theft. The objective of this initiative would be to secure commitment from the communities for curbing theft cases in their areas as well as spreading pros and cons of energy theft to the wider audience. Many of the factors that are driving the increase in commercial loss are beyond the control and influence of the DISCOMs. Therefore, it is beneficial for the DISCOMs to canvassing support from the various community groups in this matter.

6. **Theft Analytics of the un-metered consumers:** The DISCOMs should undertake theft analytics of all the un-metered consumers. For this purpose, the DISCOMs should initiate checking of the pump sets to identify theft cases. Based on the random checking detail profiles of the consumers involved in energy theft would

be prepared. Followed by, the utility shall prepare an action plan to curb energy theft and take appropriate action against such consumers.

7. **Aerial Bunched Cabling (ABC):** To reduce the direct theft from the LT line (hooking), ABC cabling in all densely populated area should be introduced. Cost of the ABC cables are high but in the long run it will produce effective solution to the DISCOMs to reduce theft.

8. **Implementation of Advance Metering Infrastructure (AMI) on a larger scale:** AMI system allows the utility to monitor the consumption of the individual consumer at its convenience. The consumers will be aware that the utility can monitor its consumption and any tempering or "by-passing" the meter will attract necessary action from the utility.

9. **Improve the HT/LT ratio in the distribution system:** It is observed that one of the reasons for high technical loss in the LT system in Bharatpur, Nagaur and Churu circles is because of higher LT/HT ratio as compared to Barmer circle. For example, LT/HT ratio in Bharatpur, Nagaur and Churu circles was 0.84, 0.71 and 0.73[16] (FY 2011-12) respectively. Whereas, the LT/HT ratio in Barmer circle was 0.54. Consequently, the technical loss in the LT system in Barmer circle was low. Therefore, it is recommended that the DISCOMs should focus on reducing the LT/HT ratio in their future distribution network planning.

Interventions recommended in the medium and long term period in the high energy loss areas (Category "B" and "C" Issues)

10. **Incentive scheme for the staff:** The DISCOMs in Rajasthan should consider implementation of incentive/disincentive scheme by way of linking the incentive for the staff with the increase in the billing and collection efficiency. To implement this scheme the DISCOMs should develop Key Performance

[16] Source: Form P-6 submitted to the RERC by the DISCOMs

Indicators (KPIs) such as (a) increase in number of meter readings per meter reader (b) Increase in number of disconnection of the defaulting consumers, (c) reduction of time for replacing the defective meters, and (d) reduction of commercial loss. The KPIs should also indicate the targets for the staff and will be awarded as per their actual performance vis-à-vis the targets given in the KPIs.

11. **Prepaid metering:** For the un-metered and flat rate consumers pre-paid meters could be introduced. Suitable rebate could be offered to the consumers opting for prepaid meters. However, it needs a proper marketing network to be established for availability of Prepaid Meter cards as well as for communication with the IT Server of the utility.

12. **Installation of DT meters:** It is found that in all the four representative circles the status of metering in the DTs are poor. Without metering in the DTs, proper energy auditing could not be done. Therefore, the DISCOMs should implement the metering of DTs on urgent. In Nagaur circle, the work for DT metering has already started but require speedy implementation of the same.

Interventions recommended in the long term to reduce technical loss (Category "B" Issues)

13. **Augmentation of new distribution assets:** In addition to the FRP and HVDS system for the agriculture consumers, the DISCOMs in Rajasthan should consider augmenting new distribution assets, where the HT losses are high. Augmentation of new assets.

Other recommendations

14. **Component wise AT&C losses analysis:** The component wise AT&C losses analysis would provide a clear insight on the energy losses of the DISCOMs. It is recommended for the DISCOMs in Rajasthan should adopt the component wise AT&C losses method to compute and report its energy losses. The component wise AT&C losses will not only provide the component and sub-component wise energy losses but can also used as a strategic tool for monitoring and framing future loss reduction initiatives. From the component wise AT&C losses, the decision makers in the DISCOMs can easily identify the high loss prone areas and frame their future loss reduction initiatives accordingly.

15. **Suggestion for the future AT&C losses reduction studies:** The present period of the AT&C losses reduction study is envisaged for 6 months. In six months study, the seasonal factors affecting the AT&C losses could not be captured and also the study results will not be accurate. Therefore, it is suggested that the period for the future AT&C losses study should be increased to 18 months and out of that 12 months should be envisaged for field studies only.

16. **Revenue Cycle Management (RCM):** To improve the billing and revenue collection method of the utility, one of the option would be to implementation of Revenue Cycle Management (RCM). This will help in improving the cash flow and liquidity of the DISCOMs.

    The entire process of RCM involves and revolves around timely data generation and intervention. The primary data for the RCM is the metering and billing, integrated for the collections, which is used for various improvement initiatives. The RCM assumes importance in optimizing the cash flow cycle in the business. The primary objectives of RCM are:

- To improve the overall commercial process involving metering, billing and collection.
- To minimize bottleneck, if any, in the existing M-B-C process.
- To implement method through which the actual cycle time for the whole process can be reduced, with minimal investment and with the existing infrastructure
- To implement corrective measures as the case may be to enhance efficiency improvement.
- To bring in technological interventions which would assist for improvement or better management of the Revenue Cycle.

Three types of measures included in RCM are as follow:

(a) Revenue Enhancement Measures: Revenue enhancement in the form of categorization, revision of connected load etc. Applying system analysis and targeting tools on the existing consumer and billing database can enhance the hit rate of revenue enhancement activities.

- **Preparation of the profit centre concept with fixing of responsibility;**
- Development of suitable monitoring mechanism for tracking of the energy data to arrive at reasonable measure for assessment of actual energy and revenue data
- Analysis of consumer and billing database to identify potential areas of revenue enhancement
- Based on evaluation, identification of revenue enhancement measures which may be appropriate
- Development of a Cost Benefit Analysis (CBA) framework for various investment needs and prioritise finances
- **Identification of high revenue potential areas to prioritise revenue enhancement measures**
- Assistance in monitoring of the base Energy data as a whole;

(b) **Loss reduction initiatives:** Some of the loss reduction initiatives that merit further contemplation include High Voltage Distribution Systems, Vigilance Activities, and System Up-gradation etc. This will include:

- Cost Benefit Analysis of proposed loss reduction projects like HVDS, System Upgradation etc
- Identification of financing and sourcing options to make such projects feasible
- Assist in negotiations with potential financiers and suppliers
- Development of localised projects/schemes targeted at specific problem areas

(c) **Customer Service Initiatives:** The gap between desired and delivered level of service needs to be reduced. The same shall require adoption and adaptation of best practices in distribution services. The same shall involve:

- Undertake evaluation of typical consumption patterns for certain specific consumer categories;
- Centralise billing especially for HT industrial consumers so that it provides better customer service as well as control on revenues;
- Develop benchmarks for such industries as per the consumption norms reflected in consumers of similar nature;
- Analyse the consumption pattern, both on monthly basis and develop mechanism for deviation reporting for the top 1000 customers;

17. **Energy Accounting and Auditing:** The DISCOMs should conduct energy accounting and auditing across all the sub-divisions to accurately measure the energy losses across consumer categories as well as to take appropriate action to control such losses.

18. **Distribution franchisee(DF):** A distribution franchisee acts as an intermediary between the distribution licensee and its consumers. The licensee provides exclusive rights to an agency, which is solely responsible for managing the power

distribution business in a defined geographical area. The Electricity Act 2003 also provides for the appointment of DF in specified area within the region of supply of the licensee, for which no separate license or approval is required from the regulator.

7. Appendix I: Formats prepared for collection of information from the DISCOMs

Format 1: No. of Circles, Divisions and Sub-divisions of the distribution utility

S.No.	Circle Name	Division Name	Name of the Sub-Divisions
	Circe 1	Division 1	
		Division 2	
		Division …n	
	Circe 2	Division 1	
		Division 2	
		Division …n	
	Circe 3	Division 1	
		Division 2	
		Division …n	

Format 2: Circle wise, division wise and category wise no. of consumers and energy sales

S.No.	Circle Name	Division Name	Category	FY 10-11	
				No. of Consumers	Sales (MU)
1	Circle 1	Division 1	Kutir Jyoti/BPL (metered)		
			Domestic (metered)		
			Commercial		
			LT Industry		
			HT Industry		
			Agricultural (metered)		
			Street Lights (metered)		
			Public Water Works		
			Railway Traction		
			Temporary Connections		
			Others (metered)		
			Total metered		
			Unmetered		
			Kutir Jyoti/BPL		
			Domestic		
			Commercial (		
			Agricultural		
			Others		
			Total (un-metered)		
		Division 2	Kutir Jyoti/BPL (metered)		
			Domestic (metered)		
			Commercial		
			LT Industry		
			HT Industry		
			Agricultural (metered)		
			Street Lights (metered)		
			Public Water Works		
			Railway Traction		
			Temporary Connections		
			Others (metered)		
			Total metered		
			Unmetered		
			Kutir Jyoti/BPL		
			Domestic		
			Commercial		
			Agricultural		
			Others		
			Total (un-metered)		
		Division 3	Kutir Jyoti/BPL (metered)		
			Domestic (metered)		
			Commercial		

S.No.	Circle Name	Division Name	Category	FY 10-11	
				No. of Consumers	Sales (MU)
			LT Industry		
			HT Industry		
			Agricultural (metered)		
			Street Lights (metered)		
			Public Water Works		
			Railway Traction		
			Temporary Connections		
			Others (metered)		
			Total metered		
			Unmetered		
			Kutir Jyoti/BPL		
			Domestic		
			Commercial		
			Agricultural		
			Others		
			Total (un-metered)		

Format 3: General information on Feeders and Sub-stations

S.No.	Circle Name	Type of Feeders	No. of Feeders				No. of Sub-stations	
			132 kV	66 kV	33 kV	11 kV	220/132	132/66/33
	Circle 1	Urban						
		Rural						
		Agricultural						
		LT Industry						
		HT Industry						
	Circle …n	Urban						
		Rural						
		Agricultural						
		LT Industry						
		HT Industry						

Format 4: Information regarding existing circle wise AT&C losses

S.No.	Circle Name	Division Name	Units Input	Units Billed	Distribution Losses	Amount Billed	Amount Realized	Collection Efficiency	Units Realized	AT&C Losses
	Circle 1	Division 1								
		Division 2								
		Division …n								
	Circle 2	Division 1								
		Division 2								
		Division …n								
	Circle …n	Division 1								
		Division 2								
		Division …n								

8. Appendix II: Computation of energy billed to flat rate agriculture consumers in four representative circles

8.1 Bharatpur circle

Computation of energy billed to the flat rate agriculture consumers in Bharatpur (June to Sept. 2012)

	Average connected load of the flat rate agriculture consumers (H.P) as per DISCOM records	Average connected load of the flat rate agriculture consumers (kWh) as per DISCOM records	Energy billed as per field studies (MU)	Energy billed as per DISCOM records (MU)	Difference in energy billed (MU)
	1	2	3	4	5=4-3
Connected load	15,817.00	11,799.49	5.60	8.12	2.52

Source: JVVNL and field studies

Note:

- For the flat rate agriculture pump sets, the RERC has fixed 1945 kWh/kW/year for FY 2012-13 i.e. 5.33 kWh/kW/day for JVVNL. Accordingly, to compute the energy billed to the flat rate consumers, the study has considered 5.33 kWh/kW/day.
- As per the Department of Water Resources, Government of Rajasthan there was 33 no. of rainy days in Bharatpur during the study period, therefore, excluded for computation of energy billed to the flat rate agriculture consumers.

8.2 Nagaur circle

Computation of energy billed to the flat rate agriculture consumers in Nagaur (June to Sept. 2012)

	Average connected load of the flat rate agriculture consumers (H.P) as per DISCOM records	Average connected load of the flat rate agriculture consumers (kWh) as per DISCOM records	Energy billed as per field studies (MU)*	Energy billed as per DISCOM records (MU)	Difference in energy billed (MU)
	1	2	3	4	5=4-3
Connected load	179764.52	134104.33	72.89	108.00	35.10

Source: AVVNL and field studies

Note:

- For the flat rate agriculture pump sets, the RERC has fixed 1945 kWh/kW/year for FY 2012-13 i.e. 5.33 kWh/kW/day for AVVNL. Accordingly, to compute the energy billed to the flat rate consumers, the study has considered 5.33 kWh/kW/day.
- As per the Department of Water Resources, Government of Rajasthan there was 20 no. of rainy days in Nagaur during the study period, therefore, excluded for computation of energy billed to the flat rate agriculture consumers.

8.3 Churu circle

Computation of energy billed to the flat rate agriculture consumers in Churu (June to Sept. 2012)

	Average connected load of the flat rate agriculture consumers (H.P) as per DISCOM records	Average connected load of the flat rate agriculture consumers (kWh) as per DISCOM records	Energy billed as per field studies (MU)*	Energy billed as per DISCOM records (MU)	Difference in energy billed (MU)
	1	2	3	4	5=4-3
Connected load	77472.13	57794.21	32.03	37.90	5.87

Source: JdVVNL and field studies

Note:

- For the flat rate agriculture pump sets, the RERC has fixed 1945 kWh/kW/year for FY 2012-13 i.e. 5.33 kWh/kW/day for JdVVNL. Accordingly, to compute the energy billed to the flat rate consumers, the study has considered 5.33 kWh/kW/day.
- As per the Department of Water Resources, Government of Rajasthan there was 18 no. of rainy days in Churu during the study period, therefore, excluded for computation of energy billed to the flat rate agriculture consumers.

8.4 Barmer circle

Computation of energy billed to the flat rate agriculture consumers in Barmer (June to Sept. 2012)

	Average connected load of the flat rate agriculture consumers (H.P) as per DISCOM records	Average connected load of the flat rate agriculture consumers (kWh) as per DISCOM records	Energy billed as per field studies (MU)*	Energy billed as per DISCOM records (MU)	Difference in energy billed (MU)
	1	2	3	4	5=4-3
Connected load	35129.23	26206.41	15.22	16.92	1.70

Source: JdVVNL and field studies

Note:

- For the flat rate agriculture pump sets, the RERC has fixed 1945 kWh/kW/year for FY 2012-13 i.e. 5.33 kWh/kW/day for JdVVNL. Accordingly, to compute the energy billed to the flat rate consumers, the study has considered 5.33 kWh/kW/day.
- As per the Department of Water Resources, Government of Rajasthan there was 13 no. of rainy days in Barmer during the study period, therefore, excluded for computation of energy billed to the flat rate agriculture consumers.

Report

on

Component wise AT&C Losses Reduction study in the State of Rajasthan

Volume II

Annexure

Submitted by:

Medhaj Techno Concept Pvt. Ltd.

This report is prepared under the guidance of the Forum of Regulators

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1. Annexure I: Selection of representative circles in Rajasthan

1.1 Selection of the four representative circles

Study on Assessment of component-wise AT&C Losses

Selection of representative circles in Rajasthan

The FoR Secretariat

By

Medhaj Techno Concept Pvt. Ltd.

Selection criteria and Methodology

Selection criterion : Sales mix of the Circles

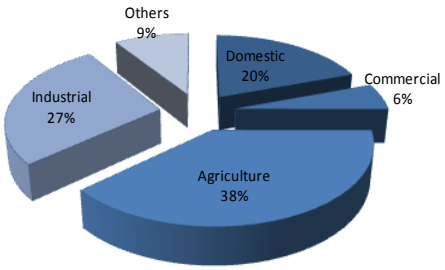
Zoning criteria I	Zoning criteria II	Zoning criteria III	Zoning criteria IV
DISCOM wise	Geographical location	Usage of ground water	Agri. & Dom. Sales mix
Representative samples	*Representative samples*	*Representative samples*	*Representative samples*

Circles	DISCOM wise	Geographical location wise	Usage and future requirements of ground water	Agri. and Dom. Sales Mix
	Options analysis			

2

Sales mix in Rajasthan

- Three distribution companies i.e. Jaipur, Jodhpur and Ajmer DISCOMs serving around 1 Crore consumers in the state
- Sales recorded in FY11-12 by all the three DISCOMs was around 34.4 thousand MU
- Sales mix in the state is dominated by Agriculture (38%) followed by industries (27%) and Domestic (20%)



Consumer category	Jaipur DISCOM	Jodhpur DISCOM	Ajmer DISCOM	Total
Domestic	3031.94	1810.90	1892.87	6735.70
Commercial	996.33	455.92	441.85	1894.10
Agriculture	4299.22	5426.74	3495.25	13221.20
Industrial	4417.86	1715.62	3263.03	9396.51
Others	1206.13	1311.36	683.92	3201.42
Total	**13951.47**	**10720.54**	**9776.91**	**34448.93**

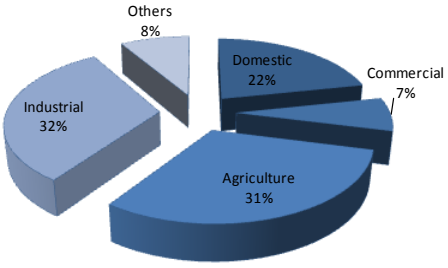
Other category includes public lighting, water works and railway traction
* Industrial includes both LT and HT industries

3

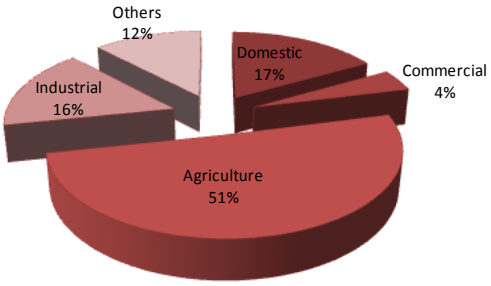
DISCOM wise sales mix (FY 2010-11)

- Industrial and agriculture categories are the two most dominant categories in the **Jaipur DISCOM** and recorded almost similar consumption i.e. 32% and 31% respectively. Domestic is the third highest category (22%)
- More than half of the sales in **Jodhpur DISCOM** was recorded in the agriculture (51%) category, followed by domestic (17%) and Industrial (16%)
- Agriculture (36%) is the most dominant category in **Ajmer DISCOM**, followed by industrial (33%) and domestic (19%)

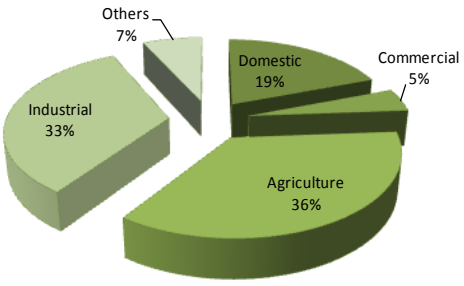
Jaipur DISCOM



Jodhpur DISCOM



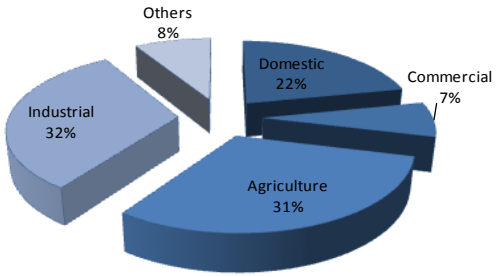
Ajmer DISCOM



Criterion I
DISCOM wise analysis

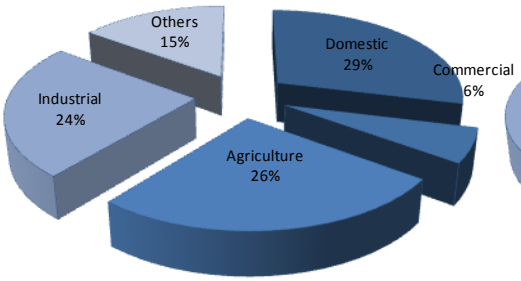
5

JAIPUR DISCOM

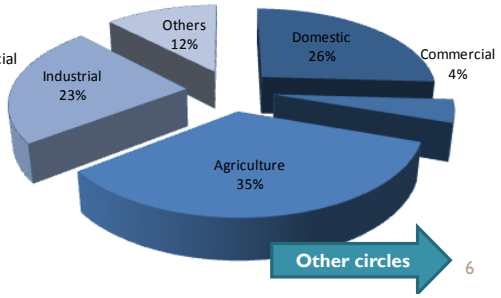


- Jaipur DISCOM has 8 circles i.e. Alwar, Bharatpur, Dausa, Jaipur city, Jaipur district, Jhalawar, Kota and Sawai Madhopur
- Proposed representative circles: Kota and Bharatpur

KOTA



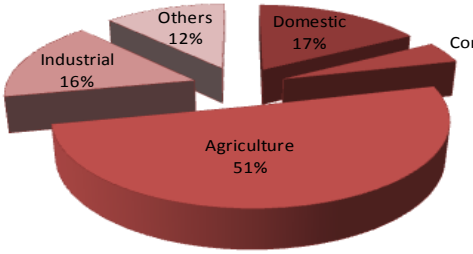
BHARATPUR



Other circles

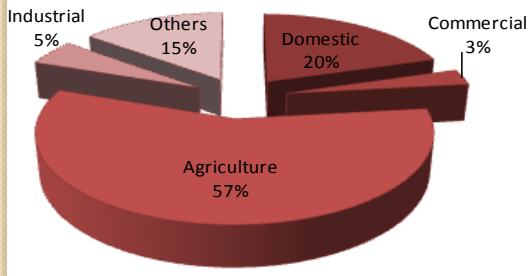
6

JODHPUR DISCOM

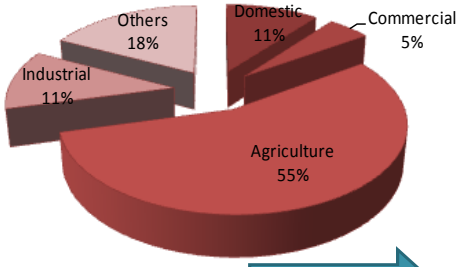


- Jodhpur DISCOM comprises of 9 circles i.e. CC Jodhpur, Churu, Hanumangarh, Sriganganagar, Bikaner, Barmer, Pali, DC Jodhpur and Jalore
- Proposed representative circles: Churu and Barmer

CHURU

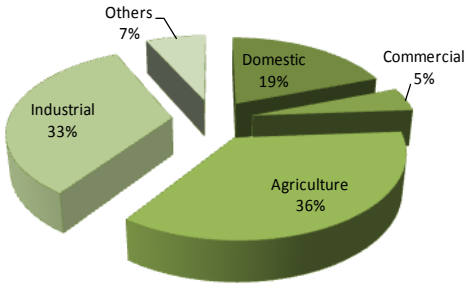


BARMER



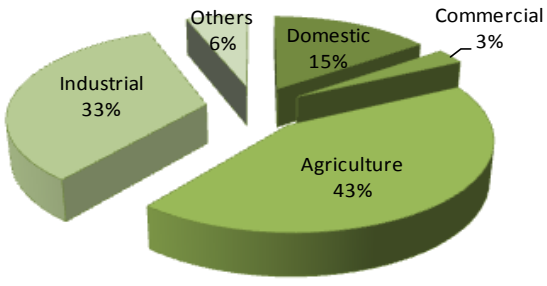
Other circles

AJMER DISCOM



- Ajmer DISCOM has 9 circles in viz. Banswara, Sikar, Jhunjhunu, Chittorgarh, Rajsamand, Udaipur, Nagaur, Bhilwara and Ajmer
- Proposed representative circles: Chittorgarh

CHITTORGARH



Other circles

Criterion 2
Zoning as per the geographical location of the circles

9

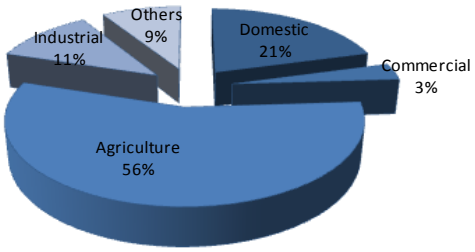
Zoning of Circles as per geographical locations

ZONE	CIRCLE	DISCOM
ZONE I (Nortern districts)	SIKAR	AJMER
	JHUNJHUNU	AJMER
	NAGAUR	AJMER
	CHURU	JODHPUR
	HANUMAN GARH	JODHPUR
	SRI GANGA NAGAR	JODHPUR
ZONE II (Southern districts)	BANSWARA	AJMER
	CHITTORGARH	AJMER
	RAJSAMAND	AJMER
	UDAIPUR	AJMER
	BHILWARA	AJMER
	AJMER	AJMER
	JHALAWAR	JAIPUR
	KOTA	JAIPUR
ZONE III (Eastern districts)	ALWAR	JAIPUR
	BHARATPUR	JAIPUR
	DAUSA	JAIPUR
	JAIPUR	JAIPUR
	S. MADHOPUR	JAIPUR
ZONE IV (Western districts)	JODHPUR	JODHPUR
	BIKANER	JODHPUR
	BARMER	JODHPUR
	PALI	JODHPUR
	JALORE	JODHPUR

10

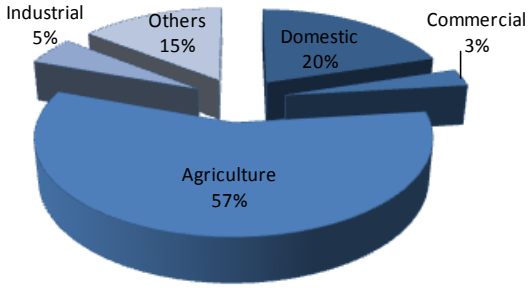
Sales mix in geographical Zone I

ZONE I – NORTHERN DISTRICTS



- Zone I comprises of 6 circles i.e. Jhunjhunu, Sriganganagar, Hanumangarh, Churu, Sikar and Nagaur
- Proposed representative circles: Churu and Hanumangarh

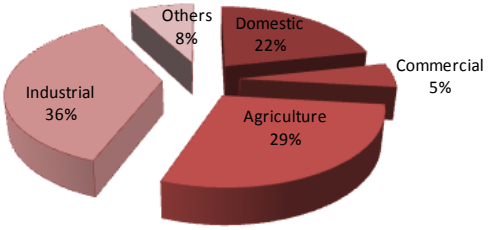
CHURU (JODHPUR)



11

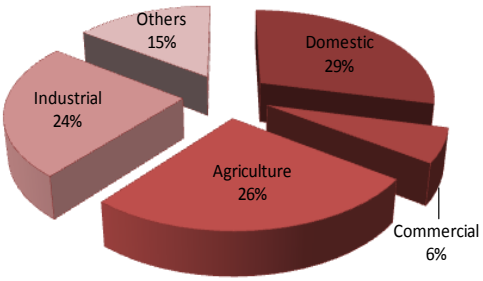
Sales mix in geographical Zone II

ZONE II – SOUTHERN DISTRICTS

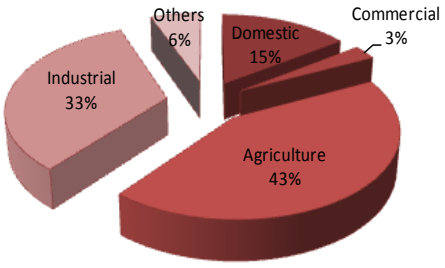


- Zone II (southern districts of Rajasthan) comprises of 8 circles viz. Banswara, Chittorgarh, Rajsamand, Udaipur, Bhilwara, Ajmer, Jhalawar and Kota
- Proposed representative circles: Kota and Chittorgarh

KOTA (JAIPUR)



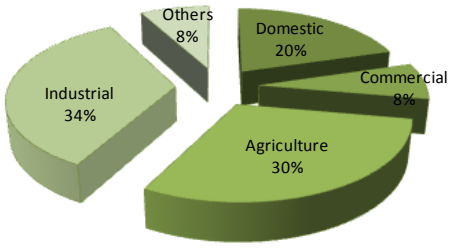
CHITTORGARH(AJMER)



12

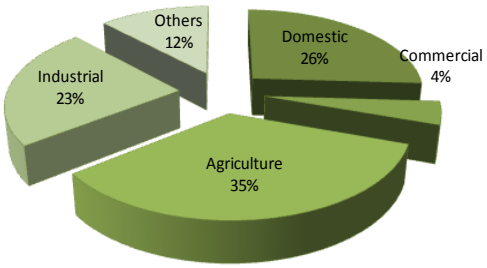
Sales mix in geographical Zone III

ZONE III – EASTERN DISTRICTS

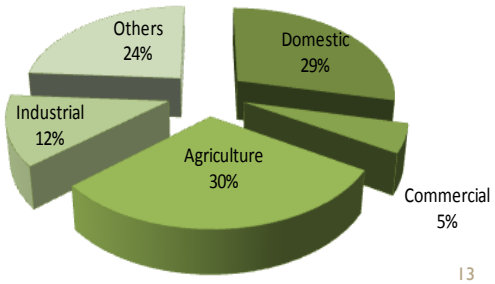


- Zone III (eastern districts of Rajasthan) comprises of 6 circles i.e. Alwar, Bharatpur, Dausa, Jaipur City and District and S. Madhopur
- Proposed representative circles: Bharatpur and S Madhopur

BHARATPUR (JAIPUR)



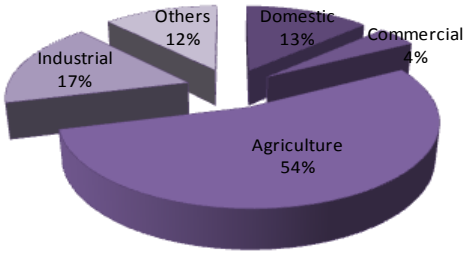
S MADHOPUR (JAIPUR)



13

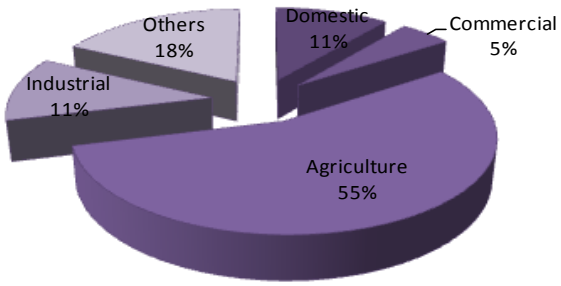
Sales mix in geographical Zone IV

ZONE IV – WESTERN DISTRICTS



- Zone IV (Western districts of Rajasthan) comprises of 5 circles i.e. Jodhpur, Bikaner, Barmer, Pali and Jalore
- Proposed representative circles: Barmer

BARMER (JODHPUR)



14

Criterion 3
Zoning as per the water tables in the districts

15

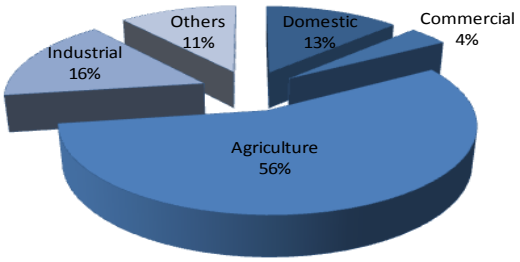
Zoning of Circles as per ground water level

ZONE	CIRCLE	DISCOM	Remarks
ZONE 1	BIKANER	JODHPUR	Ground water is extensively used and requires major recharging of ground water
	NAGAUR	AJMER	
	JODHPUR	JODHPUR	
	BARMER	JODHPUR	
	JALORE	JODHPUR	
	PALI	JODHPUR	
ZONE 2	BHARATPUR	JAIPUR	Ground water is extensively used and requires minor recharging of ground water
	S. MADHOPUR	JAIPUR	
	BHILWARA	AJMER	
	KOTA	JAIPUR	
	JHALAWAR	JAIPUR	
ZONE 3	SRI GANGA NAGAR	JODHPUR	Ground water is extensively used and requires major to minor recharging of ground water
	HANUMAN GARH	JODHPUR	
	CHURU	JODHPUR	
	JHUNJHUNU	AJMER	
	SIKAR	AJMER	
	ALWAR	JAIPUR	
	JAIPUR	JAIPUR	
	DAUSA	JAIPUR	
ZONE 4	AJMER	AJMER	Ground water is extensively used but has sufficient ground water to fulfill the future agriculture, domestic and industrial needs
	RAJSAMAND	AJMER	
	UDAIPUR	AJMER	
	CHITTORGARH	AJMER	
	BANSWARA	AJMER	

16

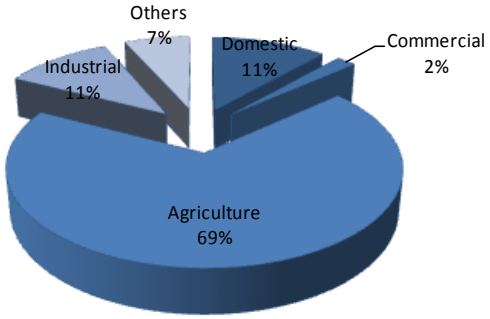
Sales mix in Zone I

ZONE I

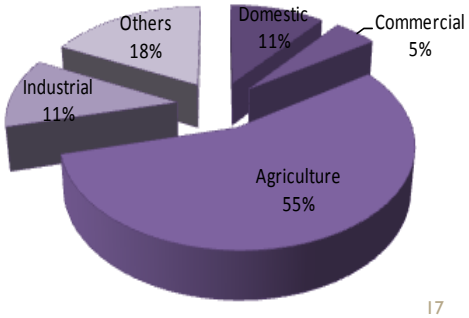


- Zone I included 7 circles i.e. Bikaner, Nagaur, Jodhpur city and District, Barmer, Jalore and Pali
- Proposed representative circles: Nagaur and Barmer

NAGOUR (JODHPUR)



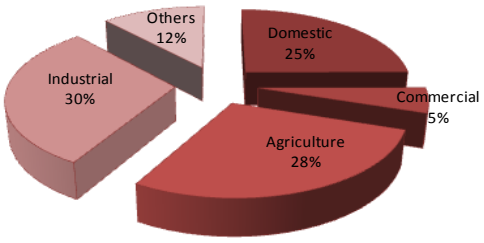
BARMER (JODHPUR)



17

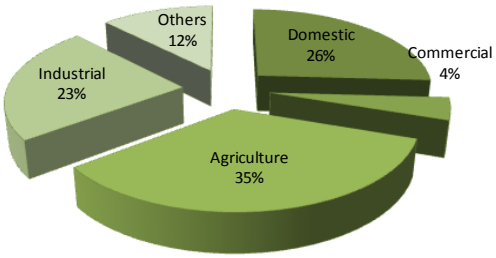
Sales mix in Zone II

ZONE II

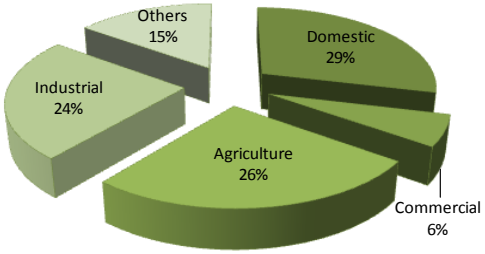


- Zone II comprises 5 circles i.e. Bharatpur, S. Madhopur, Bhilwara, Kota and Jhalawar
- Proposed representative circles: Bharatpur and Kota

BHARATPUR (JAIPUR)



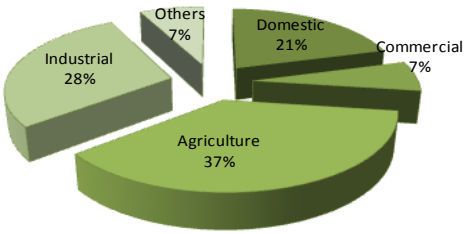
KOTA (JAIPUR)



18

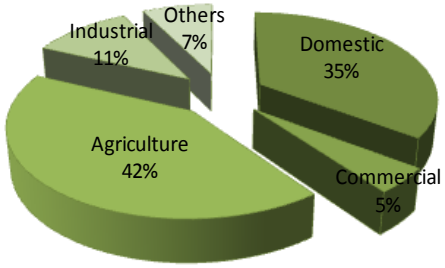
Sales mix in Zone III

ZONE III



- Zone III included 9 circles i.e. Jaipur District, Churu, Hanumangarh, Sriganganagar, Alwar, Jhunjhunu, Sikar, Dausa and Jaipur City
- Proposed representative circles: Hanumangarh representing this zone

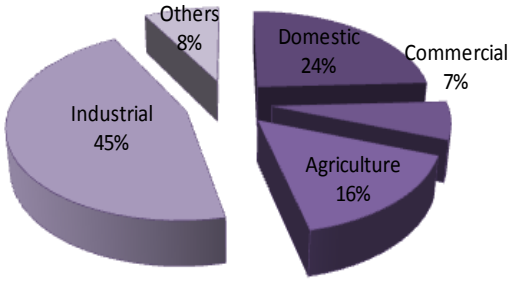
HANUMANGARH (JODHPUR)



19

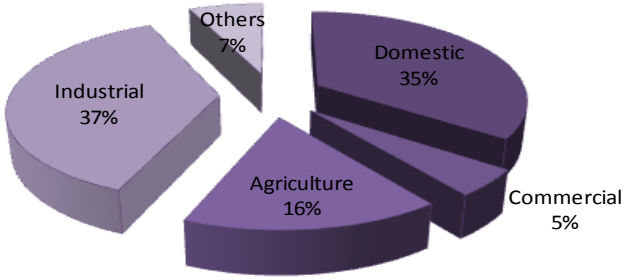
Sales mix in Zone IV

ZONE IV



- Zone IV included 5 circles Zone III i.e. Banswara, Chittorgarh, Rajsamand, Udaipur, Ajmer
- Proposed representing circle: Banswara

BANSWARA (AJMER)



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Criterion 4
Sales mix of agriculture & domestic categories

21

Dominance of Agriculture & Domestic consumption

- Following scores have been assigned to each circle based on the agriculture and domestic consumption:
  - Agriculture and domestic consumption > 80% - **4**
  - Agriculture and domestic consumption between 70% - 80% - **3**
  - Agriculture and domestic consumption between 60% - 70% - **2**
  - Agriculture and domestic consumption between 55%-60% - **1**
  - Agriculture and domestic consumption <55% - **None**

- Ranking of the circles has been done based on the scoring assigned to each circles i.e.
  - Circles with higher score ranked high
  - Circles with lower score ranked low

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Scoring and ranking of circles

S.NO.	CIRCLE	DISCOM	AGRICULTURE (%)	DOMESTIC (%)	TOTAL(%)	Score/ranking
1	JALORE	JODHPUR	76	7	83	4
2	DAUSA	JAIPUR	69	14	83	4
3	JHUNJHUNU	AJMER	64	18	82	4
4	D.C. JODHPUR	JODHPUR	76	5	81	4
5	NAGAUR	AJMER	69	11	80	4
6	SIKAR	AJMER	63	16	79	3
7	BIKANER	JODHPUR	68	11	79	3
8	CHURU	JODHPUR	57	20	77	3
9	HANUMANGARH	JODHPUR	42	35	77	3
10	JHALAWAR	JAIPUR	51	24	75	3
11	JAIPUR DISTRICT	JAIPUR	58	10	68	2
12	BARMER	JODHPUR	55	11	66	2
13	BHARATPUR	JAIPUR	36	25	61	2
14	CHITTORGARH	AJMER	43	15	58	1

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Option Analysis for selection of samples

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Selection of circles – Option Analysis

Circles	DISCOM	DISCOM wise	As per Geographical location	As per Ground Water level	Combination of Agri & Dom.
Nagour	Ajmer			√	4
Churu	Jodhpur	√	√		3
Barmer	Jodhpur	√	√	√	2
Bharatpur	Jaipur	√	√	√	2
Chittorgarh	Ajmer	√	√		1
D.C. Jodhpur	Jodhpur				4
Dausa	Jaipur				4
Jalore	Jodhpur				4
Jhunjhunu	Ajmer				4
Hanumangarh	Jodhpur			√	3
Bikaner	Jodhpur				3
Jhalawar	Jaipur				3
Sikar	Ajmer				3
Jaipur District	Jaipur				2
Kota	Jaipur	√	√	√	None
Banswara	Ajmer			√	None
S. Madhopur	Jaipur		√		None

- Churu is meeting all the four selection criteria and has a score of 3 in terms of dominance in agriculture and domestic consumption i.e. 77%
- Nagour is meeting two selection criteria with high concentration of agriculture and domestic consumption i.e. 83%
- Bharatpur and Barmer are meeting all the four selection criteria and has a score of 2 (i.e. in the range of 60%-70%) in terms of dominance in agriculture and domestic consumption
- Chittorgarh is meeting three qualification criteria and has a score of 1 in terms of dominance in agriculture and domestic consumption i.e. more than 60%
- Jodhpur, Dausa, Jalore, Junjhunu, Bikaner, Jhalawar and Sikar have high score in terms of dominance in agriculture and domestic consumption but not meeting other selection criteria

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Sales mix in the circles identified under Option Analysis

OPTION I

Consumer category	BHARATPUR	NAGOUR	CHURU	CHITTORGARH	TOTAL
Domestic	213.74	173.27	175.55	157.82	**720.38**
Commercial	35.68	29.68	25.99	28.95	**120.31**
Agriculture	283.28	1022.89	499.29	452.18	**2257.64**
Industrial	191.16	162.20	43.83	350.94	**748.13**
Others	100.78	99.20	126.17	61.20	**387.35**
Total	**824.64**	**1487.25**	**870.82**	**1051.09**	**4233.80**

OPTION II

Consumer category	BHARATPUR	NAGOUR	BARMER	CHITTORGARH	TOTAL
Domestic	213.74	173.27	117.30	157.82	**662.14**
Commercial	35.68	29.68	53.10	28.95	**147.42**
Agriculture	283.28	1022.89	611.32	452.18	**2369.67**
Industrial	191.16	162.20	125.55	350.94	**829.85**
Others	100.78	99.20	193.56	61.20	**454.75**
Total	**824.64**	**1487.25**	**1100.83**	**1051.09**	**4463.81**

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Issues to be discussed with FoR Secretariat

- Criteria for selection of circles
- Finalization of representative circles in Rajasthan
- Views on selection of the circles, which will represent the AT&C losses of the state

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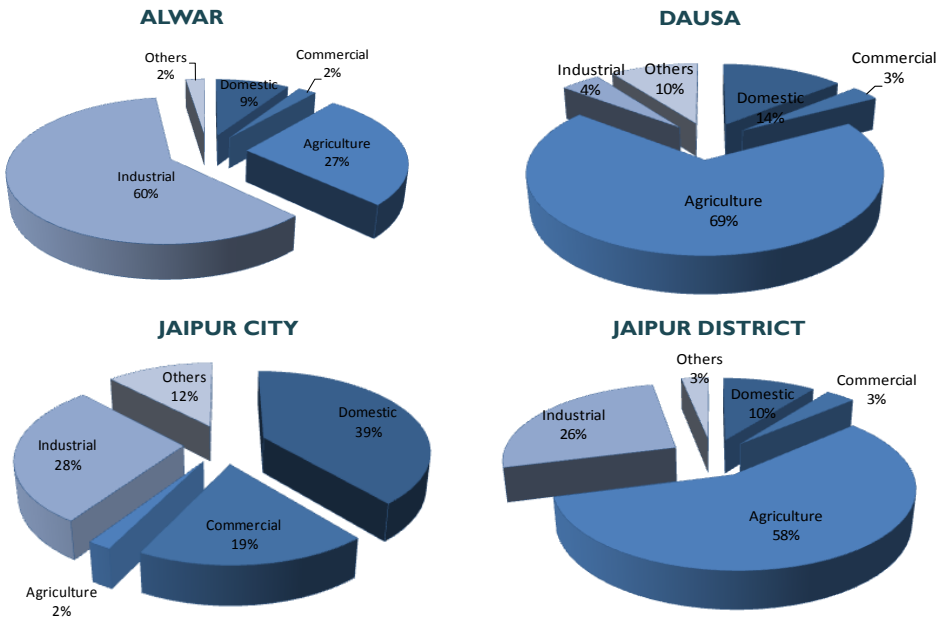
Annexure 1: Jaipur DISCOM



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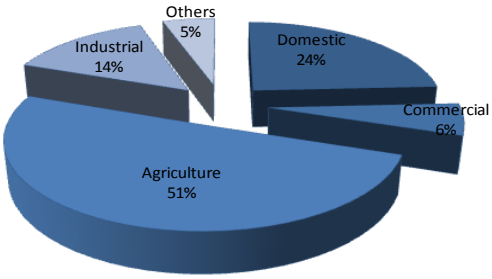
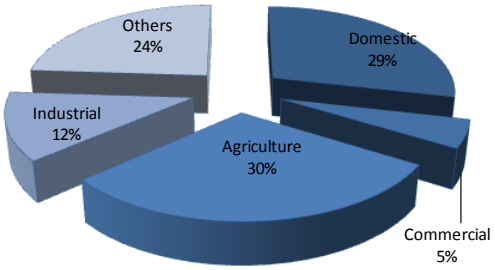
Annexure 1: Jaipur DISCOM

JHALAWAR



S. MADHOPUR



Return

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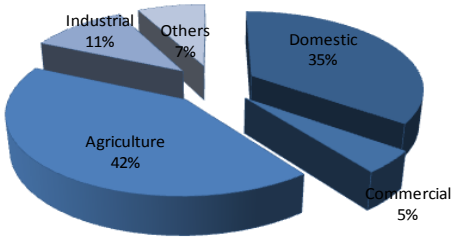
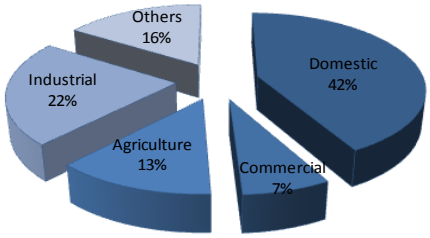
Annexure 2: Jodhpur DISCOM

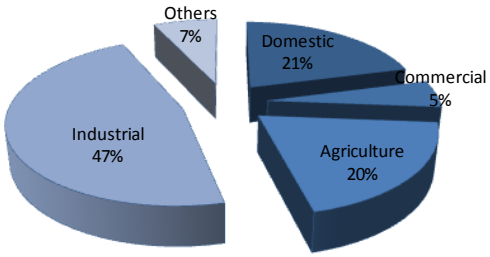
HANUMANGARH



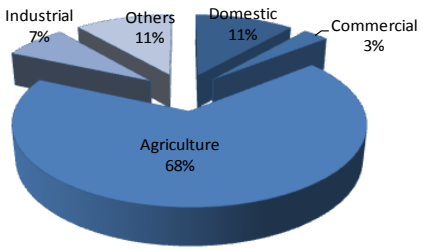
SRI GANGA NAGAR



PALI



BIKANER



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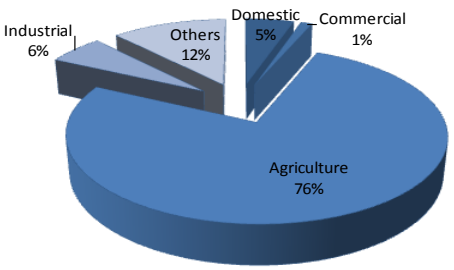
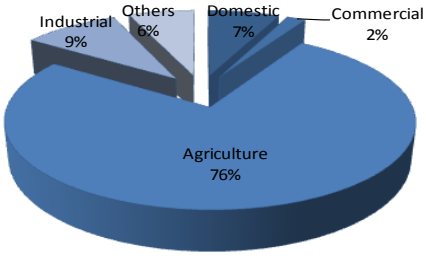
Annexure 2: Jodhpur DISCOM

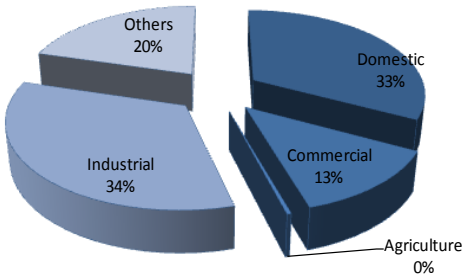
D.C. JODHPUR



JALORE



C.C. JODHPUR



Return

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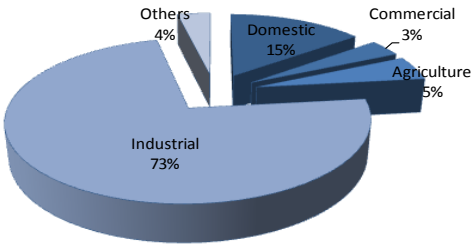
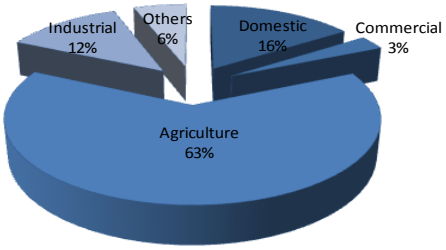
Annexure 3: Ajmer DISCOM

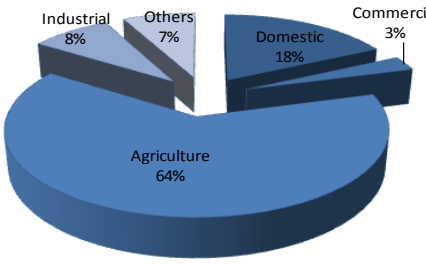
RAJSAMAND



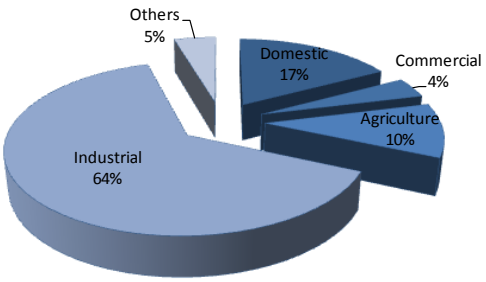
SIKAR



JHUNJHUNU



BHILWARA



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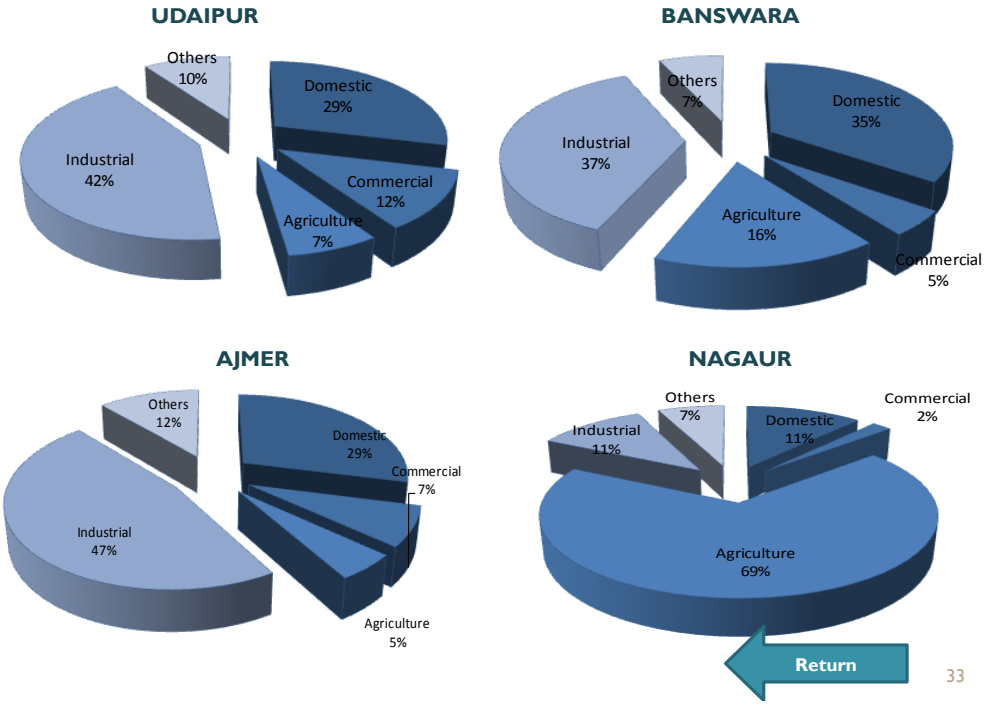
Annexure 3: Ajmer DISCOM



2. Annexure II: Energy Loss in HT system

2.1 HT survey– Bharatpur

Particulars	Consumption (kWh)
Energy input	178173.83
Energy send from 11 kV feeders	170798.29
HT level loss from 132 to 11 kV	4.14%

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
Bharatpur	97249.4	111389	0.4	14139.6	5655.84	Old industrial area	Gatta factory	284303	303423	0.1	19120	1912	
							I.T.I.	1510447	1515987	0.2	5540	1108	
							I.O.C.	869658	893421	0.1	23763	2376.3	
												5396.3	4.59%
	21674.12	66497.14	0.3	44823.02	13446.906	Ajan	Gunsara w/w	145789	202134	0.03	56345	1690.35	
							Gunsara	78660	182131	0.02	103471	2069.42	
							Ajan takha	158379	365489	0.02	207110	4142.2	
							Talfara Abhora	50997	176255	0.04	125258	5010.32	
												12912.29	3.98%
	106255.3		0.04			Uchchain	Behrawali	meter not working					
							Sehna	meter not working					
							Nekpur	meter not working					
							Tapsi	meter not working					
							Uchchain-I	meter not working					
							Kurka	meter not working					
							Madoli	meter not working					
							Pichuna	meter not working					

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
	31559	35687	1.5	4128	6192	Company bagh	Krishna colony I	551195	630002.36	0.02	78807.36	1576.15	
							Krishna colony II	365478	374512.48	0.04	9034.48	361.38	
							O.P.H.	218111	269596.11	0.01	51485.11	514.85	
							Central school	218111	306801.29	0.04	88690.29	3547.61	
												5999.99	4.65%
	297818.5	315878	1.2	18059.5	21671.4	Heeradas	Sewar	3201681	3884521	0.01	682840	6828.40	
							Dalmilia	2933480	3354178	0.01	420698	4206.98	
							Anhaye Gate	1559576	1887456	0.03	327880	9836.40	
												20871.78	3.69%
Kumher	87632	95683	2	8051	16102	Kumher city	Adhaiya w/w	21239	22633	0.01	1394	13.94	
							Lakhan w/w	28288	30505	0.02	2217	44.34	
							Gunsara	954544	972994	0.03	18450	553.5	
							Taka	98059	102671	0.1	4612	461.2	
							Kumher city	41943	62547	0.05	20604	1030.2	
							Dhanwara	73599	85467	0.3	11868	3560.4	
							Borai	345719	372946	0.05	27227	1361.35	
							Sinsini	232842	240589	0.01	7747	77.47	
							Tamrer w/w	31254	48687	0.2	17433	3486.6	
							Didwari	526756	575461	0.1	48705	4870.5	
												15459.5	3.99%
Nadbai	45200	53373	0.8	8173	6538.4	Nadbai i & ii	Udyog	390901	422472	0.02	31571	631.42	
							I.O.C.	271983	280344.1	0.02	8361.1	167.222	
							City III	147856	254189	0.02	106333	2126.66	
							Piprau	215478	285463	0.01	69985	699.85	
							Nam khera	412365	502459.5	0.01	90094.5	900.945	
							Kheri devi	602547	619615.9	0.01	17068.9	170.689	
							Kasganj	521478	598745	0.02	77267	1545.34	
												6242.126	4.53%
	25811.07					Katara	Katara	meter not working					
							Ishara	meter not working					

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
							Roniza	meter not working					
	47306.6	49374.1				Manjhi	Gangroli	meter not working					
							Behranda	meter not working					
							Borwana	meter not working					
	15294	19398.4	0.8	4104.4	3283.52	Bani	Bani	48832	49052	1	220	220	
							Bhatawali	249036	249346	0.9	310	279	
							Seehi	271543	273656	1.2	2113	2535.6	
							Padola	12021	12191	0.5	170	85	
												3119.6	4.99%
Roopwas	5390154	5392287	1.1	2133	2346.3	Uncha nagla	Uncha nagla	573173	573292	0.8	119	95.2	
							Mai Gujar	659697	659896.26	0.9	199.26	179.334	
							Sunari	186786	188988	0.9	2202	1981.8	
												2256.334	3.83%
	6825617	7142161	0.05	316544	15827.2	Roopwas	Srinagar	801475	925467	0.03	123992	3719.76	
							Roopwas	2471621	2517812	0.2	46191	9238.2	
							Khan surjapur	256478	365412	0.02	108934	2178.68	
												15136.64	4.36%
Bayana	155083	173288	0.4	18205	7282	Bayana rural	Gandhi Chowk	326548	336547	0.2	9999	1999.8	
							Bhimnagar	271504	285241	0.2	13737	2747.4	
							Bhajaria	230131	244987	0.1	14856	1485.6	
							Lalgate	541083	549176	0.1	8093	809.3	
												7042.1	3.29%
	158898.5	169886.2	0.2	10987.7	2197.54	Viram pura	Barkhera	1048955	1056947	0.01	7992	79.92	
							Milakpur w/w	6039	6377.81	0.02	338.81	6.78	
							Kresser	110599	120554	0.01	9955	99.55	
							Veerampura	179234.4	190601.26	0.01	11366.86	113.67	
							Milakpur	1037332	1059806	0.08	22474	1797.92	
												2097.83	4.54%
	88333.4	96672				Bhagran	Baghrain	meter not working					
							Kalsara	meter not working					
							Khankhera	meter not working					

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
Nagar	75375.8	83991.6	4	8615.8	34463.2	Nagar	Rasiya	611657	693670.11	0.1	82013.11	8201.311	
							Gulpada	706363	737393.74	0.2	31030.74	6206.148	
							City II	636260	666468.52	0.2	30208.52	6041.704	
							City I	338721	377103.76	0.1	38382.76	3838.276	
							Borkhera	383278	470945.13	0.1	87667.13	8766.713	
												33054.152	4.09%
	154759.2	162527.9	0.2	7768.7	1553.74	Sikri	Sikri II	56380	56587	0.01	207	2.07	
							Udaipur Niham w/w	95145	99305	0.02	4160	83.2	
							Sikri I	62587	63547	0.01	960	9.6	
							Kaithwara	44214	45781	0.01	1567	15.67	
							Peepalkhera	323774	324834	0.08	1060	84.8	
							Gulbada	515521	516224	0.2	703	140.6	
							Pilu Gram	580493	589631	0.1	9138	913.8	
							Tiskee	22147	24589	0.1	2442	244.2	
												1493.94	3.85%
Weir	238207.6	240982				Chhokanwada	Salampur	meter not working					
							Bachran	meter not working					
							Bijwari	meter not working					
							Etrampur	meter not working					
							Naboday	meter not working					
							Chokhanwada	meter not working					
	95894.1	100659.5	0.9	4765.4	4288.86	Bayana							
							Bhimnagar	271504	280641	0.3	9137	2741.1	
							Bhajaria	230131	243987	0.1	13856	1385.6	
							Lalgate	541083	541276	0.1	193	19.3	
												4146	3.33%
	89978	99794.4	1.2	9816.4	11779.68	Weir	Ramaspur	625478	847562	0.01	222084	2220.84	
							Bhodgaon	987456	1123547	0.01	136091	1360.91	
							Raipur	407553	409147.02	0.03	1594.02	47.82	
							Gothra	145239	365478	0.01	220239	2202.39	
							Weir City	1647398	1649326	0.02	1928	38.56	

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
							Bhoper	521478	782145	0.02	260667	5213.34	
												11083.86	5.91%
	34805.9	43131.1	2	8325.2	16650.4	Bhusawar	Kressar	703330	723118	0.1	19788	1978.80	
							Randhirgarh	115688	130229	0.1	14541	1454.10	
							Bhusawar II	929875	941104.37	0.2	11229.37	2245.87	
							Bhusawar I	41248.14	132556.08	0.03	91307.94	2739.24	
							Sohari	565832	580462	0.1	14630	1463.00	
							Baroli	523147	543589	0.3	20442	6132.60	
												16013.61	3.82%
	745.8					Jagjeevanpur	Seras	meter not working					
							Jagjeevanpur	meter not working					
	111502.5	115595.4				Nithar	Nithar city	meter not working					
							Salempur+Nithar	meter not working					
							Mainapur	meter not working					
							Jahaj balabhgarh	meter not working					
							Ballabhgah ghatri	meter not working					
Deeg	235347.9	236212.2	1.4	864.3	1210.02	Deeg	City-3	892185	893098	0.01	913	9.13	
							City-1	1211945	1213158	0.02	1213	24.26	
							City-2	113945	115920	0.2	1975	395	
							Deedawali	212454	214475	0.03	2021	60.63	
							IOC	52647	54663	0.02	2016	40.32	
							RICCO	623445	662151	0.01	38706	387.06	
							Panhori	372324	381834	0.01	9510	95.1	
							Au-gahnawali	105734	107180	0.02	1446	28.92	
							Samai bahej	422147	423059	0.08	912	72.96	
							Sheeshwara	494562	496629	0.02	2067	41.34	
												1154.72	4.57%
	56952.57	58078.17	0.8	1125.6	900.48	Januthar	Janothar	196574	211577	0.02	15003	300.06	
							Gullena	124583	143132	0.02	18549	370.98	
							Nahroli	359434	378415	0.01	18981	189.81	

Name of 132 kV GSS	1st Read (in kWh)	2nd Read(in kWh)	MF	Difference	Consumption at 33 kV	33kV S/S	11kV Feeder	1st read (in kWh)	2nd read (in kWh)	MF	Difference	Consup. 11 kV	Losses
												860.85	4.40%
	15248.88	18859.93	1.3	3611.05	4694.365	Kumher	Adhaiya w/w	21239	22633	0.1	1394	139.4	
							Lakhan w/w	28288	30505	0.1	2217	221.7	
							Gunsara	954544	970994	0.01	16450	164.5	
							Taka	98059	102671	0.2	4612	922.4	
							Kumher city	41943	72354	0.02	30411	608.22	
							Dhanwara	73599	91546	0.02	17947	358.94	
							Borai	345719	368946	0.01	23227	232.27	
							Sinsini	232842	257589	0.02	24747	494.94	
							Tamrer w/w	365214	451238	0.01	86024	860.24	
							Didwari	526756	573461	0.01	46705	467.05	
												4469.66	4.79%
Kaman	91235.72	112135.54	0.1	20899.82	2089.982	Kaman	Bolkhera	264646	264899	2	253	506	
							Garh bilang	189756	189956	1	200	200	
							Kalawta	143576	143691	1	115	115	
							Kanwara	254285	254686	2	401	802	
							Angrawali w/w	473274	473638	1	364	364	
												1987	4.93%
		40842.9				Junehra	Jurheri	meter not working					
							Jurhera	meter not working					
							RICCO	meter not working					
							Pai	meter not working					
		59482.33				Pahari	Satwari	meter not working					
							Kathol	meter not working					
							Dheemari	meter not working					
							Chhapra	meter not working					
							Pahari	meter not working					
							Nagal	meter not working					
		71811.67				Akata	Dilawati	meter not working					
							Akata	meter not working					
					178173.83	**Total**						**170798.29**	

2.2 HT survey – Nagaur

Particulars	Consumption ('000 kWh)
Energy input	8196.39
Energy send from 11 kV feeders	7771.00
HT level loss from 132 to 11 kV	5.19%

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
Kerap	98237.4	99732.7	0.1	1495.3	149.53	Agoonta	516362	516363.8	40	1.8	72	
						Banthari	178147	178148.5	20	1.5	30	
						Koliya	48174	48176	20	2	40	
											142	5.04%
Kunkuna	117683	129952	0.01	12269	122.69	Kharesh	463617	463618.8	20	1.8	36	
						Ganwari	1034459	1034462	10	3	30	
						Khunkhuna vill.	4239.4	4241.4	20	2	40	
						Saniya	252482	252483	20	1	20	
						Peerwa	400339	400342	20	3	60	
						Khunkhuna phed	3840246	3840248	20	2	40	
											120	2.19%
Jas nagar	88187.4	89455.3	0.3	1267.9	380.37	Gemliyawas	653728	653730.3	40	2.3	92.00	
						Surpura nadipura	875629	875631.9	20	2.9	58.00	
						Jaswantabad 1st	467852	467855	10	3	30.00	
						Jaswantabad 2nd	469792	469793	15	1	10.00	
						Jasnagar town	986964	986966	15	2	30.00	
						Ladwa	547687	547689.4	40	2.4	96.00	
											316.00	5.08%
Akoda	54752.8	61634.4	0.03	6881.6	206.448	Akoda	13068	13072	40	4	160.00	
						Dusaha kalan	13782	13786	10	4	40.00	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
											200.00	3.12%
Hiran kuri	936682	943572	0.05	6890	344.5	Hiran khuri vill.	55639	55640.6	40	1.6	64	
						Khakharki	279831	279832.6	15	1.6	24	
						Unchiyarda	240473	240479	40	6	240	
											328	4.79%
Merta city	1028392	1058721	0.01	30329	303.29	Morda	5430.01	5432.01	40	2	80	
						Ren	6611.42	6612.42	40	1	40	
						Mehta city	4328	4330.3	40	2.3	92	
						Renigate	24168	24170	40	2	80	
											292	3.72%
Billu						Billu	meter not working					
						Nimbri	meter not working					
						Huldhani	meter not working					
						Bansara	meter not working					
						Billu vill.	meter not working					
Kasnau						Kasnau vill.	meter not working					
						Lgyar	meter not working					
						Kasnau ag	meter not working					
Deh	1576382	1598368	0.01	21986	219.86	Deh somna	56172	56173.5	20	1.5	30	
						Sirasana	516438	516440	40	2	80	
						Deh phed	678920	678921.8	20	1.8	36	
						Harima	980752.4	980753	25	0.6	15	
						Tower	879042	879043.9	25	1.9	47.5	
										0	208.5	5.17%
Jayal	7638262	7682628	0.01	44366	443.66	Jayal city	786543	786546.2	20	3.2	64	
						Mata ji	785989	785991.6	40	2.6	104	
						Khinyala	657821	657823.3	20	2.3	46	
						Janwas	489543	489544.8	40	1.8	72	
						Tarnau	981920	981922.3	40	2.3	92	
						Sasuraj	1028981	1028983.4	20	2.4	48	
						Exchange	1173977	1173979.8	40	2.8	112	
											426	3.98%
Kathothi						Kathothi	meter not working					

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
						Jochina	meter not working					
Bichawa						Bichawa	meter not working					
						Dabgaon	meter not working					
Daulatpura	155083	159853	0.05	4770	238.5	Daulatpura	21999	22001	20	2	40	
						Nimbi	356872	356874.3	20	2.3	46	
						Supka	786397	786399.5	10	2.5	25	
						Shakabasni	113296	113299.2	25	3.2	80	
						Chugni	1129387	1129389	20	2	40	
						Pawata	252616	252619	20	3	60	
											231	3.14%
Ajwa						Ajwa	meter not working					
						Singana	meter not working					
Mela maidan						Nagaur road	meter not working					
						Station road	meter not working					
Somana						Ratanga	meter not working					
						Surjaniyawas	meter not working					
						Somana ag	meter not working					
Jetpura	1729739	1732765	0.06	3026	181.56	Akoda	1567820	1567823.2	10	3.2	32	
						Jetpura rular	1796901	1796902.2	10	1.2	12	
						Dikawa	56824	56825	40	1	40	
						Dosana kallna	180932	180933	15	1	15	
						Dosana khurd	468490	468492.7	40	2.7	108	
						Begsar vill.	98265	98267	10	2	20	
						Berwa	87982	87984	10	2	20	
											175	3.61%
Unchida						Sandila	meter not working					
						Chhajoli	meter not working					
						Phed	meter not working					

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
Tarnau						Tarnu 1st	meter not working					
						Tarnu 2nd	meter not working					
						Rohina	meter not working					
Toshina	95894.1	100659.5	0.04	4765.4	190.616	Toshina	467891	467892.8	20	1.8	36	
						Thebari	782435	782436.9	15	1.9	28.5	
						Lega ki dhani	344063	344066	20	3	60	
						Bhop ji k bas	897291	897293.4	40	2.4	96	
						Raghunathpura	11992	11994.7	15	2.7	40.5	
											184.5	3.21%
Badabara	1672862	1675386	0.08	2524	201.92	Pawa	112902	112903.8	20	1.8	36.00	
						Badabara	124858	124860	20	2	40.00	
						Peerwa	190637	190638.5	40	1.5	60.00	
						Mandukara	335107	335109.8	20	2.8	56.00	
											192.00	4.91%
Badi khatu	2034731	2038493	0.06	3762	225.72	Bari khatu city	11640.59	11642.59	20	2	40.00	
						Bari khatu hindu bera	2534.78	2536.78	20	2	40.00	
						Dargah	109280.5	109282.8	15	2.3	34.50	
						Choti khatu	667704	667705.5	10	1.5	15.00	
						Firozpura	666092	666092.7	20	0.7	14.00	
						Bernel	838835	838836.4	20	1.4	28.00	
						Dawoli	426142	426144.3	15	2.3	34.50	
						Khiya bas	93769	93770	10	1	10.00	
											216.00	4.31%
Dehri						Dehri	meter not working					
						Dheroli	meter not working					
Arwar	4527257	4528370	0.2	1113	222.6	Roopathal	87352	87355.4	20	3.4	68	
						Chhawta	982543	982544.3	20	1.3	26	
						Arwar ag	74986	74988.8	15	2.8	42	
						Arwar city	84638.6	84640.4	15	1.8	27	
						Lgayr	108735	108736.6	20	1.6	32	
						Barsuna	119872	119873	15	1	15	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
											210.00	5.66%
Role	9373923	9374938	0.3	1015	304.5	Gagwana	289531	289533.4	40	2.4	96	
						Khanwar 1st	308407	308408.3	40	1.3	52	
						Khanwar 2nd	204776	204778.2	20	2.2	44	
						Role city	928082	928082.3	40	0.3	12	
						Diya 1st	1029797	1029798.3	20	1.3	26	
						Role vill.	979382	979383.2	40	1.2	48	
						Didya 2nd	638204	638204.6	20	0.6	12	
						Surjaniyawas	777260	777261.2	40	1.2	48	
											290	4.76%
Ren	1627839	1628974	0.2	1135	227	Nimbola	471283	471285.4	25	2.4	60	
						Bachwas	308726	308728	40	2	80	
						Ren1st	897385.3	897387.3	40	2	80	
											220	3.08%
Lalas						Dhayalon ki dhani	meter not working					
						Gudali talani	meter not working					
						Lalas	meter not working					
						Lalas city	meter not working					
Ricco	2728728	2729321	0.2	593	118.6	Industrial	879273.2	879274.8	10	1.6	16	
						Gandhi coloney	42048	42050.4	10	2.4	24	
						Karlu ag	12028	12031	15	3	45	
						Krishi mandi phed	134936	134938	15	2	30	
											115	3.04%
Jilliya	829262.7	832981.3	0.05	3718.6	185.93	Jilliya city	973564	973566.3	20	2.3	46	
						Karkeri	807393.3	807394.2	20	0.9	18	
						Sabul pura	738468.3	738469.3	20	1	20	
						Jilliya	436372.8	436373.6	20	0.8	16	
						Chand pura	374638	374639.1	20	1.1	22	
						Charnawas	3638548	3638549.4	40	1.4	56	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
											178	4.27%
Shiv						Shiv	meter not working					
						Rajpura	meter not working					
						Shiv city	meter not working					
Parewadi						Parewadi	meter not working					
						Rajpura	meter not working					
						Parewadi vill.	meter not working					
Kaloli	8573862	8576093	0.04	2231	89.24	Chawandiya	745637	745639	20	2	40	
						Begpura	1195783	1195784	15	1	15	
						Baralpura	1426783	1426783.9	20	0.9	18	
						Chawandiya city	1476858	1476859.3	10	1.3	13	
											86	3.63%
Leeliya	9248274	9249063	0.2	789	157.8	Giyara bula	878468	878469.2	25	1.2	30	
						Harchiya marg	484158	484159.5	20	1.5	30	
						Teldual nudia	152299	152301.3	10	2.3	23	
						Mangera	1836492	1836492.9	40	0.9	36	
						Liliya vill.	1927374	1927375.3	25	1.3	32.5	
											151.5	3.99%
Katiyasani	6573825.6	6574826.2	0.3	1000.6	300.18	Akeli	455226	455228	20	2	40	
						Bhanas	501123	501126	20	3	60	
						Bhuriyasani	78814	78815.7	15	1.7	25.5	
						Benas	195130	195133.4	20	3.4	68	
						Dhaneriya	62309	62310.3	25	1.3	32.5	
						Indokara nada	893749.4	893750.5	40	1.1	44	
						Katyawas	902386.4	902387.7	10	1.3	13	
											283	5.72%
Akeli	8327629.4	8328921.3	0.1	1291.9	129.19	Gemliyawas	8293372.4	8293373.5	20	1.1	22.00	
						New akeli	464118	464120.4	10	2.4	24	
						Old akeli	39019	39021.3	20	2.3	46	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
						Simla	638468.8	638469.4	15	0.6	9	
						Akeli city	8364682	8364683.5	15	1.5	22.5	
											123.5	4.40%
Beetan	9739742.4	9739952.3	0.4	209.9	83.96	Beetan 1st	932462	932463.5	10	1.5	15	
						Beetan 2nd	391733	391734	20	1	20	
						Beetan 3rd	184787	184789	15	2	30	
						Beetan vill.	637489.4	637490.4	15	1	15	
											80	4.72%
Koliyon ki dhani						Koliyan kidhani 1st	meter not working					
						Koliyan ki dhani 2nd	meter not working					
						Koliyan ki dhani 3rd	meter not working					
						Koliyan ki dhanki vill.	meter not working					
Akoda	3564278.4	3565758.5	0.06	1480.1	88.806	Akoda	13068	13070.6	15	2.6	39	
						Dusaha kalan	23980	23982.3	20	2.3	46	
											85	4.29%
Araksar	746836.8	747953.3	0.2	1116.5	223.3	Araksar ag	478290	478293.4	40	3.4	136	
						Bala ji	734862.4	734863.6	10	1.2	12	
						Araksar city	839479.5	839480.3	40	0.8	32	
						Dolat pura	364629	364629.8	20	0.8	16	
						Kok pura	927382	927383.4	10	1.4	14	
											210	5.96%
Nimod	8737492.4	8738341.4	0.2	849	169.8	Khatrio ki dhani	128379	128380.2	20	1.2	24	
						Nimod city	101337	101339	15	2	30	
						Bhakto ki dhani	995589	995590	10	1	10	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
						Bansa	478871	478872.4	15	1.4	21	
						Daki pura	789278.3	789279.4	10	1.1	11	
						Bawari	885494	885496	20	2	40	
						Dher ki dhani	587588.4	587589.6	20	1.2	24	
											160	5.77%
Nuwa	9273742	9275683	0.1	1941	194.1	Nuwa vill.	869268.4	869269.5	10	1.1	11	
						Jodi k bas	257852	257853.4	20	1.4	28	
						Sardar pura	936933	936934.2	15	1.2	18	
						Payali	745383	745383.9	20	0.9	18	
						Kyamsar fanta	44855	44857	20	2	40	
						Sudrasan fanta	256373	256374.3	15	1.3	19.5	
						Daulat pura	249788	249790.4	20	2.4	48	
											182.5	5.98%
Todas						Bala ji	meter not working					
						Todas rural	meter not working					
						Teliya bala ji	meter not working					
						Khorandi road	meter not working					
						Todas city	meter not working					
Badgoun	4682628	4683895	0.08	1267	101.36	Badgaon rural	44113	44115	20	2	40	
						Basni kachawa	647265	647265.9	40	0.9	36	
						Badgaon vill.	143788	143789.4	15	1.4	21	
											97	4.30%
Mungdara	9478832	9479876	0.2	1044	208.8	Falki	899450	899452	40	2	80	
						Falki gaon	736486	736487.3	20	1.3	26	
						Falki south	273972.9	273974.2	20	1.3	26	
						Mungadara ag	373969.4	373970.6	40	1.2	48	
						Mungdara vill.	830792	830792.8	20	0.8	16	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
											196	6.13%
Ladariya	8240820	8241934	0.1	1114	111.4	Ladariya fanta	797190	797192	10	2	20	
						Gelaser fanta	615172	615174.3	15	2.3	34.5	
						Gelaser ag	214023	214024.7	10	1.7	17	
						Ladariya city	734863.5	734864.8	15	1.3	19.5	
						Rasidpura	713924	713925	15	1	15	
Mandawara						Mandawara	meter not working					
						Palara	meter not working					
						Narayanpura	meter not working					
Motipura						Motipura	meter not working					
						Hanumanpura	meter not working					
Khorandi	2848620	2849203	0.2	583	116.6	Charnawas	2297821	2297822.4	20	1.4	28	
						Ghatawa as	6382707	6382708.1	20	1.1	22.00	
						Ghatawa city	2324422	2324422.8	15	0.8	12	
						Khorandi	2747488	2747489.2	15	1.2	18	
						Lalas hudil	868898	868899.5	20	1.5	30	
											110	5.66%
Lamaba						Nalot	meter not working					
						Lamaba	meter not working					
						Bhencharon	meter not working					
Bhilal						Devnagar	meter not working					
						Kotra vill.	meter not working					
						Bhilla ag	meter not working					
						Jijot ag	meter not working					
						Jilot vill.	meter not working					
Nagwara	7237027.3	7238152.4	0.06	1125.1	67.506	Badi talai	7486492.3	7486493.4	15	1.1	16.50	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
						Nagwara	679231	679232.8	15	1.8	27	
						Nimawali talai	782928	782930	10	2	20	
											63.50	5.93%
Gugarwar						Doctor feeder	meter not working					
						Mota feeder	meter not working					
						Gugarwar vill.	meter not working					
						Kukanwali	meter not working					
						Kukanwali city	meter not working					
Indali	9378382	9379420	0.2	1038	207.6	Dher ki dhani	787686	787688.4	20	2.4	48	
						Moti pura	837846.3	837847.8	20	1.5	30	
						Hanumanpura	8638461	8638462.3	25	1.3	32.50	
						Charanon ki dhani	1398701	1398702.8	20	1.8	36	
						Indali vill.	1327381	1327382.3	40	1.3	52	
											198.5	4.38%
Panchawa	7136163	7137823	0.1	1660	166	Kakot	837846.4	837847.2	20	0.8	16	
						Sardarpura	1459872	1459873.5	15	1.5	22.5	
						Bherpura	622946	622947.4	20	1.4	28	
						Moonpura	739227	739228.4	15	1.4	21	
						Shesma ka bas	632313	632314.2	20	1.2	24	
						Panchawa vill.	432536	432537.4	20	1.4	28	
						Muwalon ki dhani	547682	547683.7	10	1.7	17	
											156.5	5.72%
Gopal pura						Sujan pura	meter not working					
						Shivdhan pura	meter not working					
Jewaliyawas	5383628	5384727	0.1	1099	109.9	Jewaliyabas city	13746	13748.4	20	2.4	48	
						Jewaliyabas kuya	32475.5	32476.9	20	1.4	28	
						Bargana	4490.9	4492.9	15	2	30	
											106	3.55%
Khariya	9271737	9272980	0.1	1243	124.3	Harit nagar	985478	985479.4	20	1.4	28	

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
						Rampuar	8469683	8469684.5	20	1.5	30	
						Beedwala	639739.4	639740.5	40	1.1	44	
						Kharda	497393.6	497394.7	15	1.1	16.5	
											118.5	4.67%
Rooppura						Ranwa	meter not working					
						Shah ji ki dhani	meter not working					
						Jasrana	meter not working					
						Roop pura vill.	meter not working					
Bhilal						Devnagar	meter not working					
						Kotra vill.	meter not working					
						Bhila ag	meter not working					
						Jijot ag	meter not working					
						Jijot vill.	meter not working					
Merta city	6487392	6489632	0.1	2240	224	Morda	5430.01	5432.01	40	2	80	
						Ren	6611.42	6612.42	20	1	20	
						Mehta city	4328	4330.3	40	2.3	92	
						Renigate	24168	24170	10	2	20	
											212	5.36%
Billu						Billu	meter not working					
						Nimbri	meter not working					
						Huldhani	meter not working					
						Bansara	meter not working					
						Billu vill.	meter not working					
Molasar	9279273	9280653	0.2	1380	276	Chugni	863862.4	863863.5	20	1.1	22	
						Akoda	357150	357151	40	1	40	
						Jharod	135975	135978	20	3	60	
						Jhakharon k bas	836836.3	836837.5	15	1.2	18	
						Molasar city	1039472.3	1039473.4	20	1.1	22	
						Kichak	675616	675617.6	20	1.6	32	
						Chappri	937494.3	937495.8	40	1.5	60	
						Dabada	3352	3353.4	20	1.4	28	
											260	5.80%

33 kV GSS	1st Read (kWh)	2nd Read (kWh)	MF	Difference	Consumption at 33 kV	11kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
Nimba ka bass	7837063	7839864	0.05	2801	140.05	Lakhi ki dhani	802559	802561.5	20	2.5	50	
						Nimba k bass	352862	352863.4	10	1.4	14	
						Peplio k bass	609975	609976	20	1	20	
						Nimbi k bass	273682	273683.4	15	1.4	21	
						Mata ki dhani	532044	532046.8	10	2.8	28	
											133	5.03%
Dakhi pura	7392747	7393874	0.2	1127	225.4	Bhadasar	29354	29356.3	10	2.3	23	
						Risushu k bass	836962.3	836963.4	15	1.1	16.5	
						Duui pura	648638.4	648639.8	10	1.4	14	
											214.5	4.84%
Dhankoli	9892327	9895643	0.05	3316	165.8	Aaslar	6732709	6732710.2	20	1.2	24	
						Barikala	3328722	3328723.4	20	1.4	28	
						Dhankoli city	3627233	3627234.5	15	1.5	22.5	
						Dhankuli ag	375774	375775	40	1	40	
						Bhudasar	488277	488278.6	15	1.6	24	
						Dhankipura	5262621	5262622.4	15	1.4	21.00	
											159.5	3.80%
Kuchira	7027054	7028294	0.2	1240	248	Numri	112260	112261.8	20	1.8	36	
						Manda ki dhani	868363.4	868364.5	10	1.1	11	
						Bututi city	577057	577059.8	40	2.8	112	
						Kara/punas	648672.4	648673.4	10	1	10	
						Water works	362639	362640.3	15	1.3	19.5	
						Butati dham	190939	190941.3	20	2.3	46	
											234.5	5.44%
	Total				**8196.39**						**7771.00**	

2.3 HT survey – Churu

Particulars	Consumption ('000 kWh)
Energy input	12576.20
Energy send from 11 kV feeders	12021.35
HT level loss from 132 to 11 kV	4.41%

132kV GSS	Name of33 kV GSS	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption (kWh)	11 kV feeder	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption '000 kWh)	Loss
Sujan garh	Ledi	16383.8	16393.9	40	10.1	404	PHED	17394.58	17396.78	10	2.2	22	
							Mithari	23425.36	23436.92	10	11.56	115.6	
							Ladi	16734	16739	10	5	50	
							Kasumbi	27341	27349	10	8	80	
							Meethri	89056.56	89059.23	10	2.67	26.7	
							Firwasi	23142.67	23148.6	10	5.93	59.3	
							Ringan	16459	16463	10	4	40	
												393.6	2.57%
	Chaper	92039	92059.3	40	20.3	812	Chhaper PHED City	17891	17897	15	6	90	
							Jogalia	4043.78	4051.92	15	8.14	122.1	
							Charwash	10634	10639	15	5	75	
							Gopalpura	5329.23	5329.69	10	0.46	4.6	
												784.6	3.37%
	Randhisar	23541	23597.86	40	56.86	2274.4	Randhisar	12647	12775	10	128	1280	
							Dhatri	67540	67629	10	89	890	
												2170	4.59%
	Gopal pura	5132.89	5144.46	40	11.57	462.8	Gopalpura	4347.99	4358.21	40	10.22	408.8	
	Ganora	27568	27578.56	40	10.56	422.4	Sarothia	2536.58	2544.46	20	7.88	157.6	
							Charla	24131.98	24137.3	20	5.32	106.4	
							Ghanora & marothja bhada	16342.67	16347.28	20	4.61	92.2	
							PHED	10342	10345	20	3	60	
												416.2	1.47%

132kV GSS	Name of33 kV GSS	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption (kWh)	11 kV feeder	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption '000 kWh)	Loss
	Oph	47823	47829.69	40	6.69	267.6	Pawan Cressor udyog	17382	17389	10	7	70	
							Water works+ city urban general	9549.02	9557.8	10	8.78	87.8	
							Gandhi chowk (urban general)	77356.29	77359.4	10	3.11	31.1	
							New club	23142.86	23149.3	10	6.44	64.4	
												253.3	5.34%
	City(132/11 kV)	261130.5	261141	10	10.5	105	City	94123	94133.2	10	10.2	102	2.86%
	Duliya(132/ 11kV)	17515.4	17523.6	10	8.2	82	Duliya	102737	102744.86	10	7.86	78.6	4.15%
	Club(132/11 kV)	17073.5	17083	10	9.5	95	Club	132670	132679.21	10	9.21	92.1	3.05%
	IA(132/11k V)	12504.32	12509.78	10	5.46	54.6	IA	198603	198608.2	10	5.2	52	4.76%
	Rural(132/1 1kV)	16746.62	16749.98	10	3.36	33.6	Rural	98453	98456.23	10	3.23	32.3	3.87%
Churu	Churu	94237.5	94267.23	40	29.73	1189.2	City 1st feeder	94962	94978	10	16	160	
				40			City 2nd feeder	94415	94428	10	13	130	
				40			Akashwani	38546	38557	10	11	110	
				40			Railway feeder	68485	68492	10	7	70	
				40			Ghantel(old)	78549	78571	10	22	220	
				40			Ratan nagar feeder(old)	36458	36467	10	9	90	
				40			City III	88956	88967	10	11	110	
				40			REC	86547	86561	10	14	140	
				40			Utwalia	265137	265148	10	11	110	
											114	1140	4.14%
	Dharmstoop	76549.56	76563.28	40	13.72	548.8	Girls college	5487.21	5497.68	10	10.47	104.7	
				40			Poonia Colony	4715.89	4731.95	10	16.06	160.6	
				40			PHED	12458.125	12467.69	10	9.565	95.65	
				40			Ramnagar	9651.12	9667.23	10	16.11	161.1	
												522.05	4.87%
	Churu riico	128166.45	128180.79	40	14.34	573.6	RIICO FEEDER	94158	94171.65	10	13.65	136.5	

132kV GSS	Name of33 kV GSS	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption (kWh)	11 kV feeder	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption '000 kWh)	Loss
				40			Subash Chowk	97360	97367.97	10	7.97	79.7	
				40			Gajsar	12458	12471	10	13	130	
				40			I.T.I.	244648	244657	10	9	90	
				40			RIICO II	7325.54	7337.13	10	11.59	115.9	
												552.1	3.75%
	Ratan nagar	362537	362548.97	40	11.97	478.8	Depalsar	46781.45	46793.57	10	12.12	121.2	
				40			Meghsar	45783.46	45792.65	10	9.19	91.9	
				40			Hunatpura	36157.56	36168	10	10.44	104.4	
				40			Ratan nagar	78546.98	78562.19	10	15.21	152.1	
				40								469.6	1.92%
	Satra	59874.78	59891.69	40	16.91	676.4	Shayampura/binasar	45789	45797.15	10	8.15	81.5	
				40			Raipuria feeder	78154.14	78168.23	10	14.09	140.9	
				40			Jasarasar feeder	98541.12	98549.56	10	8.44	84.4	
				40			Satra village feeder	36421.56	36437.42	10	15.86	158.6	
				40			Molisar	98154.12	98171.92	10	17.8	178	
												643.4	4.88%
	Dheerasar	74568.45	74577.14	40	8.69	347.6	Dhirasar (charan) feede	45961.2	45973	10	11.8	118	
				40			Dhodhliya (sekha)	58761.15	58769.34	10	8.19	81.9	
				40			Buchawash feeder	78548.45	78561.89	10	13.44	134.4	
												334.3	3.83%
	Bhaleri	26948.6	26957.84	40	9.24	369.6	Khandawa feeder	78549	78562.9	10	13.9	139	
				40			Jasarsar	62354	62361.39	10	7.39	73.9	
				40			Kohina	58476	58481.9	10	5.9	59	
				40			Bhaleri	86591.16	86598.79	10	7.63	76.3	
												348.2	5.79%
	Gantel	36875.63	36889.83	40	14.2	568	Pithisar feeder	16548.12	16561.98	10	13.86	138.6	
				40			Sahjusar feeder	64583.58	64599.23	10	15.65	156.5	
				40			Somashi feeder	48921	48932.45	10	11.45	114.5	
				40			Ghantel feeder	12548.25	12561.14	10	12.89	128.9	
												538.5	5.19%

132kV GSS	Name of33 kV GSS	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption (kWh)	11 kV feeder	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption '000 kWh)	Loss
	Rampura renu	56982.34	56992.88	40	10.54	421.6	Rampura	74581.25	74588.35	10	7.1	71	
				40			Ashalkhari	54876.36	54884.45	10	8.09	80.9	
				40			Charnwasi	89546.59	89558.72	10	12.13	121.3	
				40			Karnisar	14578.19	14591.23	10	13.04	130.4	
												403.6	4.27%
	Karanpura	34826.67	34835.29	40	8.62	344.8	Lalasar/balki	48138.67	48143.84	10	5.17	51.7	
				40			Ladhariya feeder	43256.67	43266.92	10	10.25	102.5	
				40			Karanpura/bhamashi feeder	58794.15	58811.43	10	17.28	172.8	
												327	5.16%
	Kadwashar	976654	976663.19	40	9.19	367.6	Sahjusar	2794.67	2799.43	10	4.76	47.6	
				40			Kadwasar	3452.98	3464.25	10	11.27	112.7	
				40			Butiya	1372.76	1381.56	10	8.8	88	
				40			Dhan ji ki dhani	2347.98	2358.18	10	10.2	102	
												350.3	4.71%
	Inderpura	48943	48947.32	40	4.32	172.8	Indrapura	77184.00	77197.56	10	13.56	135.6	
				40			Jodi/ginari tiba	133905.54	133908.76	10	3.22	32.2	
												167.8	2.89%
	Dudwakhara	2254267	2254274.3	40	7.3	292	Ranwa ki dhani	7037034	7037049	10	15	150	
				40			Dudhawakhara	34582	34595.35	10	13.35	133.5	
												283.5	2.91%
	Sirsala	236353	236362.43	40	9.43	377.2	Dhani laxman singh	22027.1	22039.5	10	12.4	124	
				40			Lohsana bara	24578.23	24593.24	10	15.01	150.1	
				40			Sirsala	8660.12	8668.37	10	8.25	82.5	
												356.6	5.46%
	Ghangu	153426	153433.98	40	7.98	319.2	Dhadhar	151283	151292.9	10	9.9	99	
				40			Ghanghu	223524.8	223531.56	10	6.76	67.6	
				40			Dandu	104040.36	104053.79	10	13.43	134.3	
												300.9	5.73%
	Balrasar	275347	275359.89	40	12.89	515.6	Balrasar	56823	56837	10	14	140	
				40			Raha sar	78547	78556	10	9	90	

132kV GSS	Name of33 kV GSS	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption (kWh)	11 kV feeder	1st read (kWh/'000kWh)	2nd read (kWh/'000kWh)	MF	Difference	Consumption '000 kWh)	Loss
				40			Khasoli	76854	76866	10	12	120	
				40			Untwaliya	34876	34891	10	15	150	
												500	3.03%
	Total					**12576.20**						**12021.35**	

2.4 HT survey – Barmer

Particulars	Consumption ('00 kWh)
Energy input	1077718
Energy send from 11 kV feeders	1026724
HT level loss from 132 to 11 kV	4.73%

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
Barmer	986472	1100567	0.8	114095	91276	Baytoo	Baytoo Chimanji	366214	383423	0.04	17209	688.36	
							Madhasar	436987	1215987	0.04	779000	31160	
							Byatoo Bhimaji	556234	623547	0.04	67313	2692.52	
							Byatoo Panji	899462	926542	0.05	27080	1354	
							Kanod	193546	1195689	0.05	1002143	50107.15	
												86002.03	5.78%
	216547	250459	0.9	33912	30521	Adel	Bhatala	231564	262134	0.04	30570	1222.8	
							Ranasar	799856	882131	0.05	82275	4113.75	
							Adel Village	22365	375489	0.05	353124	17656.2	
							PHED	745631	896524	0.04	150893	6035.72	
												29028.47	4.89%
	458796	512154	0.4	53358	21343	Sheo	Jhinjhiniyali(Balasar)	665412	698754	0.04	33342	1333.68	
							Rajdal	554265	562547	0.05	8282	414.1	
							Pusad-Dhanji	223654	396541	0.05	172887	8644.35	
							Bisukallan (Sheo Jhanphali)	214569	321457	0.05	106888	5344.4	
							Ascon	956874	997541	0.05	40667	2033.35	
							Kotra-Agoriya	12452	78563	0.04	66111	2644.44	
												20414.32	4.35%
Sheo	1532547	1641364	0.06	108817	6529	Bhiyad	Budha Tala	25478	98642	0.01	73164	731.64	
							Mogerai	65321	123054	0.01	57733	577.33	
							Aarang Chochra	123589	254189	0.02	130600	2612	

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
							Bhomiya	65489	120354	0.02	54865	1097.3	
							Bhiyand Village	187456	203147	0.02	15691	313.82	
							Kanasar(Phed)	658964	699615.9	0.02	40651.9	813.038	
												6145.13	5.88%
	115469	395647	0.4	280178	112071	Bhadkha	Bhadkha (PHED)	56248	986534	0.1	930286	93028.6	
							Bhadkha Village	74521	79856	0.8	5335	4268	
							K.K.D. (AG)	254698	298745	0.2	44047	8809.4	
												106106	5.32%
Sawa	452138	882548	0.3	430410	129123	Satta	Old Sedwa	658947	725467	0.8	66520	53216	
							Moolani (Bakasar)	19365	21178	0.8	1813	1450.4	
							Sihaniya (PHED)	236547	352812	0.6	116265	69759	
							Bediya	14526	15524	0.6	998	598.8	
							Pancharla (Panoriya)	22568	22978	0.4	410	164	
												125188.2	3.05%
	896547	1025647	0.5	129100	64550	Chohtan	Chohtan City	554785	612547	0.1	57762	5776.2	
							Netrad	454879	555231	0.2	100352	20070.4	
							Mithe Ka Tala	66547	125644	0.1	59097	5909.7	
							Alamsar	55234	152487	0.1	97253	9725.3	
							Hill Top (Chohtan)	789532	837562	0.4	48030	19212	
												60693.6	5.97%
Satta	80254	89654	4	9400	37600	Satta	Old Sedwa	55478	69832	0.2	14354	2870.8	
							Moolani (Bakasar)	22364	78456	0.2	56092	11218.4	
							Sihaniya (PHED)	11265	63254	0.1	51989	5198.9	
							Bediya	53288	96877	0.1	43589	4358.9	
							Pancharla (Panoriya)	96547	159562	0.2	63015	12603	
												36250	3.59%
Siwana	256314	302147	0.5	45833	22917	Gungroot	Gugroot	meter not working					
							Peeploon	meter not working					
							Berdiya	meter not working					
							PHED	meter not working					
							Naboday	meter not working					
							Chokhanwada	meter not working					

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
	654214	896542	0.8	242328	193862.4	Siwana	Kuship	365125	400589	0.8	35464	28371.2	
							Devandi	547954	597446	0.6	49492	29695.2	
							Padarli	44126	54632	0.6	10506	6303.6	
							City-I	215304	321540	0.6	106236	63741.6	
							City-II	98564	112568	0.8	14004	11203.2	
							Phed	224783	273325	0.9	48542	43687.8	
												183002.6	5.60%
	532547	561379	0.3	28832	8649.6	Mokalsar	Mokalsar city	96524	115863	0.03	19339	580.17	
							Mawadi	893235	999632	0.03	106397	3191.91	
							Ludrada	523548	533698	0.03	10150	304.50	
							Khamndap	235698	385974	0.01	150276	1502.76	
							Ramniya	25314	75125	0.01	49811	498.11	
							Mokalsar Riico	55634	69875	0.01	14241	142.41	
							Mokalsar PHED	689257	898561	0.01	209304	2093.04	
												8312.90	3.89%
	36524	48547	2	12023	24046	Meli	Meli Vill	78562	82311	0.1	3749	374.90	
							Kharkharlai	112564	130229	0.2	17665	3533.00	
							Devra	85875	106110	0.2	20235.37	4047.07	
							Bhata Khera	82239	132556	0.3	50317	15095.10	
												23050.07	4.14%
	354789	392632	0.1	37843	3784	Muthali	Muthali vill	32589	55689	0.01	23100	231.00	
							Thapan	36524	66527	0.04	30003	1200.12	
							Padarli khurd	12145	19897	0.01	7752	77.52	
							Muthali Vill	114796	265234	0.01	150438	1504.38	
							PHED	33587	65879	0.02	32292	645.84	
												3658.86	3.31%
	625148	634797	2	9649	19298	Gudanal	Guda	521487	525894	0.8	4407	3525.60	
							Naal	45218	53487	0.8	8269	6615.20	
							Guda Vill	854961	869874	0.4	14913	5965.20	
							Tower	12547	18576	0.4	6029	2411.60	
												18517.60	4.04%
Samdary	152364	189654	0.7	37290	26103	Kalyanpur	Doli	meter not working					
							Loharo ki dhani	meter not working					
							Sarwadi	meter not working					

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
							Mandali	meter not working					
							Kalyanpur	meter not working					
	452147	512354	0.5	60207	30104	Ajeet	Pato ka bara	986235	992568	0.4	6333	2533.2	
							Bhalro ka bara	145236	171564	0.4	26328	10531.2	
							Ajeet city	24623	52315	0.3	27692	8307.6	
							Mazal	26598	52369	0.3	25771	7731.3	
												29103.3	3.32%
	325489	422354	0.3	96865	29060	Silor	Jethantri	78526	92564	0.4	14038	5615.2	
							Devliyali	42365	63254	0.4	20889	8355.6	
							Silore PHED	132569	178954	0.3	46385	13915.5	
												27886.3	4.04%
Sindhary	235647	341478	0.4	105831	42332.4	Sindhary	Bhooka Feeder	91458	104254	0.6	12796	7677.6	
							Mandawla	753264	765263	0.6	11999	7199.4	
							Hodu feeder	652547	693564	0.2	41017	8203.4	
							Sindhari-Ist	113345	133654	0.3	20309	6092.7	
							Sindhari-Iind	54789	74521	0.3	19732	5919.6	
							PHED	523154	548215	0.2	25061	5012.2	
												40104.9	5.26%
	331647	402315	0.4	70668	28267.2	Bhatala	Golia	123569	154569	0.2	31000	6200	
							Dhalia	14568	45698	0.2	31130	6226	
							Dhudia	136984	166325	0.4	29341	11736.4	
							Kerli	92564	98635	0.4	6071	2428.4	
												26590.8	5.93%
	653214	676521	2	23307	46614	Sirana	Adhaiya w/w	589643	595897	0.3	6254	1876.2	
							Lakhan w/w	66354	76235	0.3	9881	2964.3	
							Gunsara	69851	89632	0.4	19781	7912.4	
							Taka	484976	496521	0.4	11545	4618	
							Kumher city	123549	156489	0.2	32940	6588	
							Dhanwara	62314	91546	0.2	29232	5846.4	
							Borai	478782	485632	0.3	6850	2055	
							Sinsini	12369	18564	0.3	6195	1858.5	
							Tamrer w/w	856479	874235	0.4	17756	7102.4	
							Didwari	796126	812036	0.3	15910	4773	
												45594.2	2.19%

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
	562314	665214	0.5	102900	51450	CKD	C.K.D Village	55489	74569	0.6	19080	11448	
							Kalanwala	742369	765634	0.5	23265	11633	
							Dhara	98654	112538	0.5	13884	6942	
							Arniyali	323684	341754	0.6	18070	10842	
							Lunakalla	121698	131658	0.8	9960	7968	
												48832.5	5.09%
	213065	383659	0.2	170594	34118.8	Dhanwa	Dhanwa	23587	45987	0.4	22400	8960	
							C.K.D	658794	698234	0.2	39440	7888	
							Gajiya	745689	779324	0.2	33635	6727	
							Dakha	45689	74589	0.3	28900	8670	
												32245	5.49%
Mehloo	854214	985476	0.2	131262	26252.4	Mehloo	Tulsonia ki Dhni	74589	78564	0.8	3975	3180	
							Goliya Jetmal	54239	61785	0.8	7546	6036.8	
							Doodasar	478562	489651	0.4	11089	4435.6	
							Rajka tala	632987	641259	0.4	8272	3308.8	
							Mehloo Viil+Ag	325418	345896	0.4	20478	8191.2	
												25152.4	4.19%
	523647	632157	0.3	108510	32553	Shobhala	Siyalo ki Dhani	meter not working					
							Mahiya ka tala	meter not working					
							Vishnoio ki Dhani	meter not working					
							Sachi Nadi	meter not working					
							Sobhala-Ist	meter not working					
							Sobhala-IInd	meter not working					
Padroo	321658	372698	0.4	51040	20416	Padru	Mithura	652147	668781	0.1	16634	1663.4	
							Pau	125478	138587	0.1	13109	1310.9	
							Padru city	32584	36587	0.3	4003	1200.9	
							Itwaya	62547	77562	0.1	15015	1501.5	
							Padru AG	125489	147562	0.2	22073	4414.6	
							Phed	45782	54028	0.2	8246	1649.2	
							Kankhi	456218	469479	0.4	13261	5304.4	
							Boran	96584	102598	0.4	6014	2405.6	
												19450.5	4.73%
	236587	362598	0.5	126011	63005.5	Kankhi	Kankhi vill	meter not working					
							Pariharo ki Dhani	meter not working					

132 kV GSS	1st Read (in kWh)	2nd Read (in kWh)	MF	Difference	Consumption at 33 kV	33 kV GSS	11 kV Feeder	1st read	2nd read	MF	Difference	Consumption at 11 kV	Losses
							Malwan	meter not working					
							Dabliyanada	meter not working					
	123624	185632	0.2	62008	12401.6	Mithura	Mithura Vill	85476	91745	0.3	6269	1880.7	
							Dhanwa Pau	871259	892547	0.2	21288	4257.6	
							Malimala	225479	241458	0.2	15979	3195.8	
							Kalan	36584	48759	0.2	12175	2435	
												11769.10	5.10%
	156324	203154	0.3	46830	14049	Kundal	Kundal	314587	321795	0.5	7208	3604	
							Berinadi	778265	785479	0.5	7214	3607	
							Relo ki dhani	225987	229796	0.6	3809	2285.4	
							Sridevi Nagar	698745	705626	0.6	6881	4128.6	
												13625	3.02%
					1077718	Total						1026724	

3. Annexure III: LT survey report

3.1 LT survey – Bharatpur

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
18/09/2012	Dahi Wali Gali, Bharatpur city	Domestic	165.60	**7.97%**	100.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
18/09/2012	Consumer 1	621616	4100.00		4102.00	2.00	1.00	2.00
	Consumer 2	17941507	960.00		961.30	1.30	1.00	1.30
	Consumer 3	17932729	485.00		485.10	3.00	1.00	3.00
	Consumer 4	7257144	2550.00		2550.20	3.00	1.00	3.00
	Consumer 5	17844335	1272.00		1273.70	1.70	1.00	1.70
	Consumer 6	6022214		Defective meter		3.00	1.00	3.00
	Consumer 7	855717	10000.00		10012.00	12.00	1.00	12.00
	Consumer 8	6928649	1550.00		1551.20	1.20	1.00	1.20
	Consumer 9	18507559	180.00		180.90	0.90	1.00	0.90
	Consumer 10	18507125	269.80		271.30	1.50	1.00	1.50
	Consumer 11	6022398	1330.20		1331.40	1.20	1.00	1.20
	Consumer 12	947208		Defective meter		3.00	1.00	3.00
	Consumer 13	8507273		Defective meter		3.00	1.00	3.00
	Consumer 14	17938681	632.00		633.90	1.90	1.00	1.90
	Consumer 15	617254	3830.00		3832.10	2.10	1.00	2.10
	Consumer 16	8219351	2200.00		2201.20	1.20	1.00	1.20
	Consumer 17	9732001		Defective meter		3.00	1.00	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 18	17845886	78.00		79.70	1.70	1.00	1.70
	Consumer 19	8549875	4890.00		4891.60	1.60	1.00	1.60
	Consumer 20	8526228	1735.00		1736.60	1.60	1.00	1.60
	Consumer 21	8523384	6100.00		6102.50	2.50	1.00	2.50
	Consumer 22	6933377	3832.00		3833.70	1.70	1.00	1.70
	Consumer 23	6928889	29.00		30.70	1.70	1.00	1.70
	Consumer 24	18507130	220.00		222.50	2.50	1.00	2.50
	Consumer 25	6928704	2430.00		2431.70	1.70	1.00	1.70
	Consumer 26	17937264	219.80		221.50	1.70	1.00	1.70
	Consumer 27	206530	7581.00		7582.90	1.90	1.00	1.90
	Consumer 28	727837	12819.10		12820.50	1.40	1.00	1.40
	Consumer 29	18507128	595.20		596.20	1.00	1.00	1.00
	Consumer 30	8523396	119.30		121.30	2.00	1.00	2.00
	Consumer 31	8607514	1820.00		1821.80	1.80	1.00	1.80
	Consumer 32	887509	3280.00		3281.50	1.50	1.00	1.50
	Consumer 33	622410	2520.20		2521.40	1.20	1.00	1.20
	Consumer 34	8414881	420.00		421.90	1.90	1.00	1.90
	Consumer 35	805340	21820.00		21823.80	3.80	1.00	3.80
	Consumer 36	9491746		Defective meter		3.00	1.00	3.00
	Consumer 37	17941154	1660.00		1661.80	1.80	1.00	1.80
	Consumer 38	18507134	661.00		662.70	1.70	1.00	1.70
	Consumer 39	17841138	1745.00		1746.90	1.90	1.00	1.90
	Consumer 40	18507104	293.00		294.30	1.30	1.00	1.30
	Consumer 41	6938914	1591.00		1592.40	1.40	1.00	1.40
	Consumer 42	8544658		Defective meter		3.00	1.00	3.00
	Consumer 43	940009	13719.00		13720.50	1.50	1.00	1.50
	Consumer 44	17848097	4771.00		4772.30	1.30	1.00	1.30
	Consumer 45	8525408	2900.00		2901.80	1.80	1.00	1.80
	Consumer 46	5212915	4625.00		4626.80	1.80	1.00	1.80
	Consumer 47	941256	2463.00		2464.90	1.90	1.00	1.90

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 48	8522437	601.00		602.60	1.60	1.00	1.60
	Consumer 49	17932890	294.00		295.70	1.70	1.00	1.70
	Consumer 50	615924	8.00		9.30	1.30	1.00	1.30
	Consumer 51	7014188	190.00		191.70	1.70	1.00	1.70
	Consumer 52	9612911		Defective meter		3.00	1.00	3.00
	Consumer 53	7713843		Defective meter		3.00	1.00	3.00
	Consumer 54	9706291		Defective meter		3.00	1.00	3.00
	Consumer 55	9465176	2265.00		2266.40	1.40	1.00	1.40
	Consumer 56	5108204	5134.00		5135.70	1.70	1.00	1.70
	Consumer 57	6022735	32.00		33.60	1.60	1.00	1.60
	Consumer 58	9601033		Defective meter		3.00	1.00	3.00
	Consumer 59	6022222	710.00		712.30	2.30	1.00	2.30
	Consumer 60	9464369	4100.00		4102.50	2.50	1.00	2.50
	Consumer 61	9709009		Defective meter		3.00	1.00	3.00
	Consumer 62	6041549	800.00		801.60	1.60	1.00	1.60
	Consumer 63	6022982	1352.00		1353.80	1.80	1.00	1.80
	Consumer 64	6006886	1245.00		1246.00	1.00	1.00	1.00
	Consumer 65	6928520	901.00		902.50	1.50	1.00	1.50
	Consumer 66	17845896	2001.00		2003.50	2.50	1.00	2.50
	Consumer 67	6928522	403.00		403.20	3.00	1.00	3.00
	Consumer 68	17842517	2350.00		2351.70	1.70	1.00	1.70
	Consumer 69	17840964	970.00		972.30	2.30	1.00	2.30
	Consumer 70	17844388	402.00		402.90	0.90	1.00	0.90
	Consumer 71	7003122	182.00		183.70	1.70	1.00	1.70
	Consumer 72	18072150		Defective meter		3.00	1.00	3.00
	Total					**152.40**		**152.40**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
18/9/2012	Dahi wali Gali, Bharatpur city	Domestic	219.00	**11.51%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
18/9/2012	Consumer 1	102685	6272		6273.5	1.50	1	1.50
	Consumer 2	622139	852		853.7	1.70	1	1.70
	Consumer 3	8545486	600		603.4	3.40	1	3.40
	Consumer 4	7708979		Defective meter		3.00	1	3.00
	Consumer 5	7707575		Defective meter		3.00	1	3.00
	Consumer 6	8608090	12460		12462	2.00	1	2.00
	Consumer 7	6044869	203		204.7	1.70	1	1.70
	Consumer 8	407093		Defective meter		3.00	1	3.00
	Consumer 9	517903		Defective meter		3.00	1	3.00
	Consumer 10	241887	6220		6221.5	1.50	1	1.50
	Consumer 11	5956338		Defective meter		3.00	1	3.00
	Consumer 12	43367	5061		5062.7	1.70	1	1.70
	Consumer 13	620607		Defective meter		3.00	1	3.00
	Consumer 14	152152		Defective meter		3.00	1	3.00
	Consumer 15	101820		Meter not installed		3.00	1	3.00
	Consumer 16	773011	2323		2324.5	1.50	1	1.50
	Consumer 17	101950	6535		6536.6	1.60	1	1.60
	Consumer 18		5340		5341.6	1.60	1	1.60
	Consumer 19	622090	15	Slow meter (theft)	19	4.00	1	4.00
	Consumer 20	8520919		Defective meter		3.00	1	3.00
	Consumer 21	8543902	1261		1262.4	1.40	1	1.40

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 22	524071		Defective meter		3.00	1	3.00
	Consumer 23	9465164	890		892.3	2.30	1	2.30
	Consumer 24			Defective meter		3.00	1	3.00
	Consumer 25	128956		Defective meter		3.00	1	3.00
	Consumer 26	523581	5940		5941.3	1.30	1	1.30
	Consumer 27	366756	14	Slow meter (theft)	19	5.00	1	5.00
	Consumer 28	7708983	1671		1672.2	1.20	1	1.20
	Consumer 29	523530	6976		6977.3	1.30	1	1.30
	Consumer 30	8217997		Defective meter		3.00	1	3.00
	Consumer 31	7709629		Defective meter		3.00	1	3.00
	Consumer 32	283975		Defective meter		3.00	1	3.00
	Consumer 33	397423	5182		5183.7	1.70	1	1.70
	Consumer 34		925	Slow meter (theft)	930	5.00	1	5.00
	Consumer 35	302042		Defective meter		3.00	1	3.00
	Consumer 36	396828		Defective meter		3.00	1	3.00
	Consumer 37	242804	4790		4791.7	1.70	1	1.70
	Consumer 38	3286261	7373		7374.7	1.70	1	1.70
	Consumer 39			Disconnected		0.00		0.00
	Consumer 40	910515		Defective meter		3.00	1	3.00
	Consumer 41	402370	4178		4180	2.00	1	2.00
	Consumer 42	304306	19901		19907	6.00	1	6.00
	Consumer 43	507572		Defective meter		3.00	1	3.00
	Consumer 44	582505		Defective meter		3.00	1	3.00
	Consumer 45	622348		Defective meter		3.00	1	3.00
	Consumer 46	427995		Defective meter		3.00	1	3.00
	Consumer 47	522943		Defective meter		3.00	1	3.00
	Consumer 48	428930		Defective meter		3.00	1	3.00
	Consumer 49	841147		Defective meter		3.00	1	3.00
	Consumer 50	522628		Defective meter		3.00	1	3.00
	Consumer 51	18953		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 52	101837		Defective meter		3.00	1	3.00
	Consumer 53	429620	2679	Slow meter (theft)	2679	5.00	1	5.00
	Consumer 54	517782		Defective meter		3.00	1	3.00
	Consumer 55	288218	5510		5511.6	1.60	1	1.60
	Consumer 56	705006	420	Slow meter (theft)	420	5.00	1	5.00
	Consumer 57	524750	1371		1372.7	1.70	1	1.70
	Consumer 58	752	5972		5973.6	1.60	1	1.60
	Consumer 59	166023	3129		3130.8	1.80	1	1.80
	Consumer 60	5053		Defective meter		3.00	1	3.00
	Consumer 61	490462	9201		9202.7	1.70	1	1.70
	Consumer 62	81501	2813	Slow meter (theft)	2813	5.00	1	5.00
	Consumer 63	18072351	680		682	2.00	1	2.00
	Consumer 64	151030	6111		6113	2.00	1	2.00
	Consumer 65	18071702	324		325.7	1.70	1	1.70
	Consumer 66	19278	5780		5781.6	1.60	1	1.60
	Consumer 67	8545931		Defective meter		3.00	1	3.00
	Consumer 68	731836		Defective meter		3.00	1	3.00
	Consumer 69	19587	8444		8446	2.00	1	2.00
	Consumer 70	19586	12113		12118	5.00	1	5.00
	Consumer 71	253482		Defective meter		3.00	1	3.00
	Consumer 72	110530	3649		3650.7	1.70	1	1.70
	Consumer 73	150644	18100		18102.6	2.60	1	2.60
	Total					**193.80**		**193.80**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
19/9/2012	Dahi wali Gali, Bharatpur city	Domestic	153.00	**10.00**%	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
19/9/2012	Consumer 1	102685	6272		6273.5	1.50	1	1.50
	Consumer 2	622139	852		853.7	1.70	1	1.70
	Consumer 3	8545486	600		603.4	3.40	1	3.40
	Consumer 4	7708979		Defective meter		3.00	1	3.00
	Consumer 5	7707575		Defective meter		3.00	1	3.00
	Consumer 6	8608090	12460		12462	2.00	1	2.00
	Consumer 7	6044869	203		204.7	1.70	1	1.70
	Consumer 8	407093		Defective meter		3.00	1	3.00
	Consumer 9	517903		Defective meter		3.00	1	3.00
	Consumer 10	241887	6220		6221.5	1.50	1	1.50
	Consumer 11	5956338		Defective meter		3.00	1	3.00
	Consumer 12	43367	5061		5062.7	1.70	1	1.70
	Consumer 13	620607		Defective meter		3.00	1	3.00
	Consumer 14	152152		Defective meter		3.00	1	3.00
	Consumer 15	101820		Meter not installed		3.00	1	3.00
	Consumer 16	773011	2323		2324.5	1.50	1	1.50
	Consumer 17	101950	6535		6536.6	1.60	1	1.60
	Consumer 18		5340		5341.6	1.60	1	1.60
	Consumer 19	622090	15	Slow meter (theft)	19	4.00	1	4.00
	Consumer 20	8520919		Defective meter		3.00	1	3.00
	Consumer 21	8543902	1261		1262.4	1.40	1	1.40
	Consumer 22	524071		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 23	9465164	890		892.3	2.30	1	2.30
	Consumer 24			Defective meter		3.00	1	3.00
	Consumer 25	128956		Defective meter		3.00	1	3.00
	Consumer 26	523581	5940		5941.3	1.30	1	1.30
	Consumer 27	366756	14	Slow meter (theft)	19	5.00	1	5.00
	Consumer 28	7708983	1671		1672.2	1.20	1	1.20
	Consumer 29	523530	6976		6977.3	1.30	1	1.30
	Consumer 30	8217997		Defective meter		3.00	1	3.00
	Consumer 31	7709629		Defective meter		3.00	1	3.00
	Consumer 32	283975		Defective meter		3.00	1	3.00
	Consumer 33	397423	5182		5183.7	1.70	1	1.70
	Consumer 34		925	Slow meter (theft)	930	5.00	1	5.00
	Consumer 35	302042		Defective meter		3.00	1	3.00
	Consumer 36	396828		Defective meter		3.00	1	3.00
	Consumer 37	242804	4790		4791.7	1.70	1	1.70
	Consumer 38	3286261	7373		7374.7	1.70	1	1.70
	Consumer 39			Disconnected		0.00		0.00
	Consumer 40	910515		Defective meter		3.00	1	3.00
	Consumer 41	402370	4178		4180	2.00	1	2.00
	Consumer 42	304306	19901		19907	6.00	1	6.00
	Consumer 43	507572		Defective meter		3.00	1	3.00
	Consumer 44	582505		Defective meter		3.00	1	3.00
	Consumer 45	622348		Defective meter		3.00	1	3.00
	Consumer 46	427995		Defective meter		3.00	1	3.00
	Consumer 47	522943		Defective meter		3.00	1	3.00
	Consumer 48	428930		Defective meter		3.00	1	3.00
	Consumer 49	841147		Defective meter		3.00	1	3.00
	Consumer 50	522628		Defective meter		3.00	1	3.00
	Consumer 51	18953		Defective meter		3.00	1	3.00
	Consumer 52	101837		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 53	429620	2679	Slow meter (theft)	2679	5.00	1	5.00
	Consumer 54	517782		Defective meter		3.00	1	3.00
	Consumer 55	288218	5510		5511.6	1.60	1	1.60
	Consumer 56	705006	420	Slow meter (theft)	420	5.00	1	5.00
	Consumer 57	524750	1371		1372.7	1.70	1	1.70
	Consumer 58	752	5972		5973.6	1.60	1	1.60
	Consumer 59	166023	3129		3130.8	1.80	1	1.80
	Consumer 60	5053		Defective meter		3.00	1	3.00
	Consumer 61	490462	9201		9202.7	1.70	1	1.70
	Consumer 62	81501	2813	Slow meter (theft)	2813	5.00	1	5.00
	Consumer 63	18072351	680		682	2.00	1	2.00
	Consumer 64	151030	6111		6113	2.00	1	2.00
	Consumer 65	18071702	324		325.7	1.70	1	1.70
	Consumer 66	19278	5780		5781.6	1.60	1	1.60
	Consumer 67	8545931		Defective meter		3.00	1	3.00
	Consumer 68	731836		Defective meter		3.00	1	3.00
	Consumer 69	19587	8444		8446	2.00	1	2.00
	Consumer 70	19586	12113		12118	5.00	1	5.00
	Consumer 71	253482		Defective meter		3.00	1	3.00
	Consumer 72	110530	3649		3650.7	1.70	1	1.70
	Consumer 73	150644	18100		18102.6	2.60	1	2.60
	Total					**193.80**		**193.80**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
20/9/2012	Purohit Mohalla Bharatpur city	Domestic	153.00	**2.81%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
20/9/2012	Consumer 1		6905		6906.7	1.70	1	1.70
	Consumer 2	68817	4217		4218.8	1.80	1	1.80
	Consumer 3	490271	4485		4486.4	1.40	1	1.40
	Consumer 4	6932571	72		73.7	1.70	1	1.70
	Consumer 5	6932572	412		413.6	1.60	1	1.60
	Consumer 6	1144	40092		40093.7	1.70	1	1.70
	Consumer 7	868769	28030		28032	2.00	1	2.00
	Consumer 8	732940	8110		8112	2.00	1	2.00
	Consumer 9	799518		Defective meter		3.00	1	3.00
	Consumer 10	19196	18190		18191.7	1.70	1	1.70
	Consumer 11		5945	Slow meter (theft)	5945	5.00	1	5.00
	Consumer 12	868143		Defective meter		3.00	1	3.00
	Consumer 13	7833691	1258		1268	10.00	1	10.00
	Consumer 14	6932575	502		503.7	1.70	1	1.70
	Consumer 15	6928966	1423		1424.2	1.20	1	1.20
	Consumer 16	6043949	1804		1805.7	1.70	1	1.70
	Consumer 17	6006514	2314		2315.6	1.60	1	1.60
	Consumer 18	427567	40	Slow meter (theft)	40	5.00	1	5.00
	Consumer 19	19457	7260		7261.7	1.70	1	1.70
	Consumer 20	217966		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 21	195464	7404	Slow meter (theft)	7404	5.00	1	5.00
	Consumer 22	707937	8800		8802	2.00	1	2.00
	Consumer 23	387231	5588		5589.7	1.70	1	1.70
	Consumer 24	517907	4900		4901.7	1.70	1	1.70
	Consumer 25	524358	3930		3932	2.00	1	2.00
	Consumer 26			Meter not installed		3.00	1	3.00
	Consumer 27			Meter not installed		3.00	1	3.00
	Consumer 28	6928620	1144		1145.3	1.30	1	1.30
	Consumer 29	523743	18502		18503.4	1.40	1	1.40
	Consumer 30	18194979		Defective meter		3.00	1	3.00
	Consumer 31	842920		Defective meter		3.00	1	3.00
	Consumer 32	126454	22100		22105	5.00	1	5.00
	Consumer 33	868146		Defective meter		3.00	1	3.00
	Consumer 34	387212	6192		6193.8	1.80	1	1.80
	Consumer 35	730574	20588		20589.7	1.70	1	1.70
	Consumer 36	334584		Defective meter		3.00	1	3.00
	Consumer 37	204732	2310	Slow meter (theft)	2310	5.00	1	5.00
	Consumer 38	490157	20200		20202	2.00	1	2.00
	Consumer 39	6023506	162	Slow meter (theft)	162	5.00	1	5.00
	Consumer 40	129948	2856		2857.5	1.50	1	1.50
	Consumer 41	727876	22101		22102.6	1.60	1	1.60
	Consumer 42	730753	6482	Slow meter (theft)	6482	5.00	1	5.00
	Consumer 43	6023504	1502		1503.5	1.50	1	1.50
	Consumer 44	49739	8116	Slow meter (theft)	8116	5.00	1	5.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 45			Meter not installed		3.00	1	3.00
	Consumer 46	940719		Defective meter		3.00	1	3.00
	Consumer 47		3907	Slow meter (theft)	3907	5.00	1	5.00
	Consumer 48	702297		Defective meter		3.00	1	3.00
	Consumer 49	300863	9282		9284	2.00	1	2.00
	Consumer 50	5103732	33092		33093.5	1.50	1	1.50
	Consumer 51	376050	27320		27321.7	1.70	1	1.70
	Consumer 52	992427	2285		2286.7	1.70	1	1.70
	Consumer 53	855588		Meter not installed		3.00	1	3.00
	Consumer 54	58052	5502		5504.6	2.60	1	2.60
	Consumer 55	5163943	7490		7491.5	1.50	1	1.50
	Total							**148.70**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
22/9/2012	Purohit Mohalla Bharatpur city	Domestic	189.00	**22.80%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
22/9/2012	Consumer 1	507819		Defective meter		3.00	1	3.00
	Consumer 2	17934355	65		66.2	1.20	1	1.20
	Consumer 3	211063		Defective meter		3.00	1	3.00
	Consumer 4	6928782	1230		1231.9	1.90	1	1.90
	Consumer 5	463621	32340		32341	1.00	1	1.00
	Consumer 6	255686	4088		4089.7	1.70	1	1.70
	Consumer 7	517000	12470		12471.2	1.20	1	1.20
	Consumer 8	600930	18265		18266.5	1.50	1	1.50
	Consumer 9	617261	890		891.4	1.40	1	1.40
	Consumer 10	869916	18300		18302	2.00	1	2.00
	Consumer 11	523877	25480		25481.4	1.40	1	1.40
	Consumer 12	106258	2591		2592.8	1.80	1	1.80
	Consumer 13	517152	22365		22366	1.00	1	1.00
	Consumer 14	17938702		Defective meter		3.00	1	3.00
	Consumer 15	6930124	370		373	3.00	1	3.00
	Consumer 16	428295	543	Slow meter (theft)	543	5.00	1	5.00
	Consumer 17	523554	1980	Slow meter (theft)	1980	5.00	1	5.00
	Consumer 18	9491754	2622		2623.7	1.70	1	1.70
	Consumer 19	424800		Defective meter		3.00	1	3.00
	Consumer 20	401085	7121		7123.8	2.80	1	2.80
	Consumer 21	17845691	3002		3003.9	1.90	1	1.90
	Consumer 22	39986	4271		4272.8	1.80	1	1.80

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 23	6043639	3987		3989	2.00	1	2.00
	Consumer 24	6013639	1622		1623.7	1.70	1	1.70
	Consumer 25	55205	37087		37088.9	1.90	1	1.90
	Consumer 26	8520617	2600		2602	2.00	1	2.00
	Consumer 27	6040183	1905		1907	2.00	1	2.00
	Consumer 28	6043953	1645		1646.9	1.90	1	1.90
	Consumer 29	19165	1473		1474.5	1.50	1	1.50
	Consumer 30	6933142		Defective meter		3.00	1	3.00
	Consumer 31	17845111	1636		1637.9	1.90	1	1.90
	Consumer 32	6928768	1000		1002.8	2.80	1	2.80
	Consumer 33	6928767	1202		1203.7	1.70	1	1.70
	Consumer 34	6928769	3001		3002.5	1.50	1	1.50
	Consumer 35	6928770	1274		1275.6	1.60	1	1.60
	Consumer 36	6928744	2675		2676.5	1.50	1	1.50
	Consumer 37	8544284		Defective meter		3.00	1	3.00
	Consumer 38	17938707	603		604.5	1.50	1	1.50
	Consumer 39	6022748	1812		1813.7	1.70	1	1.70
	Consumer 40	17841632	1285		1286.7	1.70	1	1.70
	Consumer 41	6040186	2122		2123.4	1.40	1	1.40
	Consumer 42	8544446	4545	Slow meter (theft)	4545	5.00	1	5.00
	Consumer 43	8549889		Defective meter		3.00	1	3.00
	Consumer 44	452990	909	Slow meter (theft)	909	5.00	1	5.00
	Consumer 45	9612457		Defective meter		3.00	1	3.00
	Consumer 46	8525560	3185		3186.5	1.50	1	1.50
	Consumer 47	6196430		Defective meter		3.00	1	3.00
	Consumer 48	17843749	1445		1447	2.00	1	2.00
	Consumer 49	17939686		Defective meter		3.00	1	3.00
	Consumer 50	17842662		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 51		6499	Slow meter (theft)	6499	5.00	1	5.00
	Consumer 52	850806	28465		28469.4	4.40	1	4.40
	Consumer 53	533117		Defective meter		3.00	1	3.00
	Consumer 54	7708363	11001		11002.8	1.80	1	1.80
	Consumer 55	6022541	2374		2375.7	1.70	1	1.70
	Consumer 56	2193668	2201		2202.9	1.90	1	1.90
	Consumer 57	151394	1404		1405.6	1.60	1	1.60
	Consumer 58	7707708		Defective meter		3.00	1	3.00
	Consumer 59	18507529	245		246.5	1.50	1	1.50
	Consumer 60	6932761	785		786.9	1.90	1	1.90
	Consumer 61	220069		Defective meter		3.00	1	3.00
	Consumer 62	8218952		Defective meter		3.00	1	3.00
	Total							**145.90**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
23/9/2012	Purohit Mohalla Bharatpur city	Domestic	219.00	**18.77%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
23/9/2012	Consumer 1	866247		Defective meter		3.00	1	3.00
	Consumer 2	220214	5050		5051.2	1.20	1	1.20
	Consumer 3	623915	3760		3761.2	1.20	1	1.20
	Consumer 4	6111896	6287		6288	1.00	1	1.00
	Consumer 5	15060272		Defective meter		3.00	1	3.00
	Consumer 6			Defective meter		3.00	1	3.00
	Consumer 7	153517	10835		10836.8	1.80	1	1.80
	Consumer 8	166630		Defective meter		3.00	1	3.00
	Consumer 9	518221	3174		3175.7	1.70	1	1.70
	Consumer 10		17485		17486.7	1.70	1	1.70
	Consumer 11	17843756	257		258.7	1.70	1	1.70
	Consumer 12	23558		Defective meter		3.00	1	3.00
	Consumer 13	940983	6152		6153.7	1.70	1	1.70
	Consumer 14	8543620		Defective meter		3.00	1	3.00
	Consumer 15			Meter not installed		3.00	1	3.00
	Consumer 16			Meter not installed		3.00	1	3.00
	Consumer 17	166024	51	Slow meter (theft)	51	5.00	1	5.00
	Consumer 18			Meter not installed		3.00	1	3.00
	Consumer 19	8544672	11555		11556.8	1.80	1	1.80

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 20	705006	6284		6285.9	1.90	1	1.90
	Consumer 21	711548	5065		5067.9	2.90	1	2.90
	Consumer 22	9712970		Defective meter		3.00	1	3.00
	Consumer 23	400169		Defective meter		3.00	1	3.00
	Consumer 24	855916	15878		15879.9	1.90	1	1.90
	Consumer 25	106227	11315		11316.6	1.60	1	1.60
	Consumer 26	692544	3204		3205.5	1.50	1	1.50
	Consumer 27	8529367	2876		2877.9	1.90	1	1.90
	Consumer 28	6022399	695		696.8	1.80	1	1.80
	Consumer 29	427553	335	Slow meter (theft)	335	5.00	1	5.00
	Consumer 30	192471		Defective meter		3.00	1	3.00
	Consumer 31	673853	2489	Slow meter (theft)	2489	5.00	1	5.00
	Consumer 32	101651	5538		5539.8	1.80	1	1.80
	Consumer 33	868160	50021		50022	1.00	1	1.00
	Consumer 34	105796	5749		5750.4	1.40	1	1.40
	Consumer 35	151441	5593		5594.5	1.50	1	1.50
	Consumer 36	524344		Defective meter		3.00	1	3.00
	Consumer 37	840298	338	Slow meter (theft)	338	5.00	1	5.00
	Consumer 38	8541612		Defective meter		3.00	1	3.00
	Consumer 39	17841173	594		597.8	3.80		0.00
	Consumer 40	8218224	8861		8862	1.00	1	1.00
	Consumer 41	17937823	1121		1122.8	1.80	1	1.80
	Consumer 42	17936073	440		441.5	1.50	1	1.50
	Consumer 43	942959	1245		1246.8	1.80	1	1.80
	Consumer 44	6928626	527		528.7	1.70	1	1.70
	Consumer 45	6039922	1331		1332.5	1.50	1	1.50
	Consumer 46	9462825	0	Slow meter (theft)	0	5.00	1	5.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 47	377210		Defective meter		3.00	1	3.00
	Consumer 48	8218462		Defective meter		3.00	1	3.00
	Consumer 49	17848164	1296		1297.8	1.80	1	1.80
	Consumer 50	6022575	2396		2397.5	1.50	1	1.50
	Consumer 51	611743		Defective meter		3.00	1	3.00
	Consumer 52	6023508	340		341.4	1.40	1	1.40
	Consumer 53	842984	8097		8098.5	1.50	1	1.50
	Consumer 54	5295		Defective meter		3.00	1	3.00
	Consumer 55	5049	7177		7178.7	1.70	1	1.70
	Consumer 56	151736	10575	Slow meter (theft)	10575	5.00	1	5.00
	Consumer 57	23540		Defective meter		3.00	1	3.00
	Consumer 58	386425	3000		3001.5	1.50	1	1.50
	Consumer 59	587895		Defective meter		3.00	1	3.00
	Consumer 60	8218057	911	Slow meter (theft)	911	5.00	1	5.00
	Consumer 61	728484		Defective meter		3.00	1	3.00
	Consumer 62	6932321		Defective meter		3.00	1	3.00
	Consumer 63	204349	15345		15346.6	1.60	1	1.60
	Consumer 64	427558	1381		1382.3	1.30	1	1.30
	Consumer 65	588450	4776		4777.8	1.80	1	1.80
	Consumer 66	110437		Defective meter		3.00	1	3.00
	Consumer 67	872706	5480		5481.2	1.20	1	1.20
	Consumer 68	7701169		Defective meter		3.00	1	3.00
	Consumer 69	17937783	1	Slow meter (theft)	6	5.00	1	5.00
	Consumer 70	942229	5821		5822.3	1.30	1	1.30
	Consumer 71	18507579	156		157.3	1.30	1	1.30
	Consumer 72	111760		Defective meter		3.00	1	3.00
	Consumer 73	7016535	63		65.7	2.70	1	2.70
	Total							**177.90**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
21/09/2012	Ghans Mandi Bharatpur city	Domestic	180.00	**35.89%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
21/09/2012	Consumer 1	8491747	160.00		161.70	1.70	1	1.70
	Consumer 2	8397736	7530.00		7532.50	2.50	1	2.50
	Consumer 3		27685.00	Slow meter (theft)	27685.30	5.00	1	5.00
	Consumer 4	24979	8572.00		8573.20	1.20	1	1.20
	Consumer 5	206986	7082.00		7083.50	1.50	1	1.50
	Consumer 6		5711.00		5712.90	1.90	1	1.90
	Consumer 7	377209	3392.00		3393.00	1.00	1	1.00
	Consumer 8	17842518	125.20		126.70	1.50	1	1.50
	Consumer 9			Home closed		0.00	1	0.00
	Consumer 10	8548423	902.00		903.40	1.40	1	1.40
	Consumer 11	8504710	899.30		900.70	1.40	1	1.40
	Consumer 12			Home closed		0.00	1	0.00
	Consumer 13			Home closed		0.00	1	0.00
	Consumer 14	17936521	223.10		224.80	1.70	1	1.70
	Consumer 15	17937480	244.20		245.60	1.40	1	1.40
	Consumer 16	17934935	111.20		112.50	1.30	1	1.30
	Consumer 17	17936516	362.20		364.60	2.40	1	2.40
	Consumer 18					0.00	1	0.00
	Consumer 19	8521755	2347.00		2348.90	1.90	1	1.90
	Consumer 20	8540143	1524.20		1525.80	1.60	1	1.60

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 21	779374	1082.10		1084.70	2.60	1	2.60
	Consumer 22	17936514	183.20		184.50	1.30	1	1.30
	Consumer 23	17936518	248.10		249.90	1.80	1	1.80
	Consumer 24	17937531	412.30		413.50	1.20	1	1.20
	Consumer 25	18507178	519.50		521.00	1.50	1	1.50
	Consumer 26			Home closed		0.00	1	0.00
	Consumer 27			Commercial connection (closed)		0.00	1	0.00
	Consumer 28	8393281	3737.70		3739.60	1.90	1	1.90
	Consumer 29	18072754		Defective meter		3.00	1	3.00
	Consumer 30	8731162		Defective meter		3.00	1	3.00
	Consumer 31	17939060	624.10		625.90	1.80	1	1.80
	Consumer 32	955774	5197.50		5198.90	1.40	1	1.40
	Consumer 33	8399455		Defective meter		3.00	1	3.00
	Consumer 34	17847656	1601.20		1602.90	1.70	1	1.70
	Consumer 35			Home closed		0.00	1	0.00
	Consumer 36	8526688	1278.60	Slow meter (theft)	1279.00	5.00	1	5.00
	Consumer 37	6932196	592.50	Slow meter (theft)	593.00	5.00	1	5.00
	Consumer 38	300644	2811.30		2812.80	1.50	1	1.50
	Consumer 39	401143	143.50		144.60	1.10		0.00
	Consumer 40	8397315		Defective meter		3.00	1	3.00
	Consumer 41	9494399	4987.90	Slow meter (theft)	4988.00	5.00	1	5.00
	Consumer 42	6928765	1483.40		1484.80	1.40	1	1.40
	Consumer 43	17847660	1698.20		1699.80	1.60	1	1.60
	Consumer 44	82454	7438.20		7440.00	1.80	1	1.80
	Consumer 45	8219209		Defective meter		3.00	1	3.00
	Consumer 46	18071918		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 47	7708668		Defective meter		3.00	1	3.00
	Consumer 48	17845109	753.60		755.60	2.00	1	2.00
	Consumer 49			Defective meter		3.00	1	3.00
	Consumer 50	6043641	3788.20		3789.90	1.70	1	1.70
	Consumer 51	8523382	1569.00		1570.20	1.20	1	1.20
	Consumer 52	387502	8787.30		8788.00	0.70	1	0.70
	Consumer 53	8218064		Defective meter		3.00	1	3.00
	Consumer 54	8219365		Defective meter		3.00	1	3.00
	Consumer 55	8397319	5693.80		5696.00	2.20	1	2.20
	Consumer 56	8218294		Defective meter		3.00	1	3.00
	Consumer 57	6042375	533.00		534.60	1.60	1	1.60
	Consumer 58	8397302		Defective meter		3.00	1	3.00
	Consumer 59	18071905	601.40		602.50	1.10	1	1.10
	Consumer 60	8396978		Defective meter		3.00	1	3.00
	Total							**115.40**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
26/09/2012	Ghans Mandi Bharatpur city	Domestic	197.50	**11.70%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
26/09/2012								
	Consumer 1	17932722	849.9		851	1.10	1	1.10
	Consumer 2	9612978		Defective meter		3.00	1	3.00
	Consumer 3	9713191		Defective meter		3.00	1	3.00
	Consumer 4	8399376		Defective meter		3.00	1	3.00
	Consumer 5	18071916	1111.2		1112.7	1.50	1	1.50
	Consumer 6	17936725	329.8		331	1.20	1	1.20
	Consumer 7	6928521	158.4		159.9	1.50	1	1.50
	Consumer 8	17936523	478.4		479.3	0.90	1	0.90
	Consumer 9	8423495		Defective meter		3.00	1	3.00
	Consumer 10	8397718	957.2		958.8	1.60	1	1.60
	Consumer 11	9730924	122.3		123.9	1.60	1	1.60
	Consumer 12		3746	Slow meter (theft)	3746	5.00	1	5.00
	Consumer 13	18071850	329.7		331.1	1.40	1	1.40
	Consumer 14	881	7682.5		7684.4	1.90	1	1.90
	Consumer 15	866111	9663.8		9665.7	1.90	1	1.90
	Consumer 16	18071842	222.2		223.6	1.40	1	1.40
	Consumer 17	8607779	3406.8		3408.2	1.40	1	1.40
	Consumer 18	17936519	492	Slow meter (theft)	492	5.00	1	5.00
	Consumer 19	17936513	120.1		121.7	1.60	1	1.60
	Consumer 20		8696.4		8698.1	1.70	1	1.70

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 21	18071708	492.1		493.6	1.50	1	1.50
	Consumer 22	18072899	491.8		493.4	1.60	1	1.60
	Consumer 23	17842790	1087		1088.7	1.70	1	1.70
	Consumer 24	8521488	4862.7		4864.5	1.80	1	1.80
	Consumer 25	8481741	1735.1		1736.7	1.60	1	1.60
	Consumer 26	8397304		Defective meter		3.00	1	3.00
	Consumer 27	463417	2779	Slow meter (theft)	2779	5.00	1	5.00
	Consumer 28		809	Slow meter (theft)	809	5.00	1	5.00
	Consumer 29	851675	4864.9		4866.3	1.40	1	1.40
	Consumer 30	126823	3185.5		3186.8	1.30	1	1.30
	Consumer 31	8607467	7371.3		7372.9	1.60	1	1.60
	Consumer 32	17843779	494.4		495.6	1.20	1	1.20
	Consumer 33	8607748	2515.3		2516.7	1.40	1	1.40
	Consumer 34	7708928		Defective meter		3.00	1	3.00
	Consumer 35		1140	Slow meter (theft)	1140	5.00	1	5.00
	Consumer 36	17843386	1036.5		1037.9	1.40	1	1.40
	Consumer 37	869818	3539.4		3541.2	1.80	1	1.80
	Consumer 38		7419.9		7421.3	1.40	1	1.40
	Consumer 39	9705397		Defective meter		3.00	1	3.00
	Consumer 40	7709009		Defective meter		3.00	1	3.00
	Consumer 41	18194982	1723.8		1725.5	1.70	1	1.70
	Consumer 42	7709980	11605.6		11606.8	1.20	1	1.20
	Consumer 43	8425336	7491.9		7493.5	1.60	1	1.60
	Consumer 44	8521298	6996.5		6998.5	2.00	1	2.00
	Consumer 45	8540243	6025.4		6026.7	1.30	1	1.30
	Consumer 46	7709243		Defective meter		3.00	1	3.00
	Consumer 47	7707711		Defective meter		3.00	1	3.00
	Consumer 48	17937529	2839.7		2841.3	1.60	1	1.60

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 49	7707094	111	Slow meter (theft)	111	5.00	1	5.00
	Consumer 50	9712913		Defective meter		3.00	1	3.00
	Consumer 51		10836	Slow meter (theft)	10836	5.00	1	5.00
	Consumer 52	8544666	6332.9		6334.7	1.80	1	1.80
	Consumer 53	9612859	1697.8		1699.5	1.70	1	1.70
	Consumer 54	7707810	5075.5		5076.9	1.40	1	1.40
	Consumer 55	789676	13566.7		13568.1	1.40	1	1.40
	Consumer 56	8208221	3299.3		3301.2	1.90	1	1.90
	Consumer 57	7707987		Defective meter		3.00	1	3.00
	Consumer 58	9463657	1575.4		1576.9	1.50	1	1.50
	Consumer 59	6022213	1207.8		1209.4	1.60	1	1.60
	Consumer 60	9601041		Defective meter		3.00	1	3.00
	Consumer 61	41139	833.6		835.6	2.00	1	2.00
	Consumer 62	7707657	3466.6		3467.4	0.80	1	0.80
	Consumer 63	5191315	6298.2		6299.4	1.20	1	1.20
	Consumer 64	428350		Defective meter		3.00	1	3.00
	Consumer 65	7708930		Defective meter		3.00	1	3.00
	Consumer 66	17934475	209.3		210.4	1.10	1	1.10
	Consumer 67	8549150	5337.2		5338.9	1.70	1	1.70
	Consumer 68	8397871		Defective meter		3.00	1	3.00
	Consumer 69	87302026		Defective meter		3.00	1	3.00
	Consumer 70	7707381		Defective meter		3.00	1	3.00
	Consumer 71	18072065	266.2		267.9	1.70	1	1.70
	Consumer 72	17848035	890.5		891.8	1.30	1	1.30
	Consumer 73	8542808	1526.8		1528.4	1.60	1	1.60
	Consumer 74	17841177	1000.2		1001.9	1.70	1	1.70
	Consumer 75	9612866		Defective meter		3.00	1	3.00
	Consumer 76	6044391	234.3		235.9	1.60	1	1.60

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 77	6928618	2100.6		2102.5	1.90	1	1.90
	Consumer 78	6041556	159.2		160.9	1.70	1	1.70
	Consumer 79	17846818		Defective meter		3.00	1	3.00
	Total							**174.40**

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
22/09/2012	Pai Bagh Bharatpur city	Domestic	243.00	**31.52**%	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
22/09/2012	Consumer 1	619331	6096.1		6097.5	1.40	1	1.40
	Consumer 2	8440899		Defective meter		3.00	1	3.00
	Consumer 3	9705399	5398.2		5399.3	1.10	1	1.10
	Consumer 4	616409		Defective meter		3.00	1	3.00
	Consumer 5			Meter not installed		3.00	1	3.00
	Consumer 6	17842101	235.5		236.9	1.40	1	1.40
	Consumer 7	17841681	1176.2		1177.8	1.60	1	1.60
	Consumer 8	9612476		Defective meter		3.00	1	3.00
	Consumer 9	8525409	8248.8		8250	1.20	1	1.20
	Consumer 10		30230.5		30232.1	1.60	1	1.60
	Consumer 11	887765	13892.2		13894	1.80	1	1.80
	Consumer 12	7707968		Defective meter		3.00	1	3.00
	Consumer 13	8609268	13992.6		13994.3	1.70	1	1.70
	Consumer 14	6453621	32223.9		32225.5	1.60	1	1.60
	Consumer 15	9713878		Defective meter		3.00	1	3.00
	Consumer 16	17840958	1274.3		1276	1.70	1	1.70
	Consumer 17	9491764	3310.1		3311.3	1.20	1	1.20
	Consumer 18	7708062		Defective meter		3.00	1	3.00
	Consumer 19	7707990	3106.6		3108	1.40	1	1.40
	Consumer 20	17843460	35		35.9	0.90	1	0.90
	Consumer 21	17936070	139.2		141	1.80	1	1.80

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 22	18194981		Defective meter		3.00	1	3.00
	Consumer 23	1793627	1739.3		1740.6	1.30	1	1.30
	Consumer 24	129944	15055		15056.5	1.50	1	1.50
	Consumer 25	6043633	1240.3		1242.1	1.80	1	1.80
	Consumer 26	17936932	197.9		199	1.10	1	1.10
	Consumer 27	7707591		Defective meter		3.00	1	3.00
	Consumer 28	8523383		Defective meter		3.00	1	3.00
	Consumer 29	9730136		Defective meter		3.00	1	3.00
	Consumer 30	9601030	500.4		502.2	1.80	1	1.80
	Consumer 31	7707138	10479.3		10481	1.70	1	1.70
	Consumer 32	8218070		Defective meter		3.00	1	3.00
	Consumer 33	802970	19856.5		19858.3	1.80	1	1.80
	Consumer 34	6041553	2098.2		2099.9	1.70	1	1.70
	Consumer 35	17837205	1548.3		1549.4	1.10	1	1.10
	Consumer 36	7707145	4219.3		4221	1.70	1	1.70
	Consumer 37	8502899		Defective meter		3.00	1	3.00
	Consumer 38	6040715	185.4		187	1.60	1	1.60
	Consumer 39		6241	Slow meter (theft)	6241	5.00	1	5.00
	Consumer 40	863831	9792.1		9793.5	1.40	1	1.40
	Consumer 41		2145	Slow meter (theft)	2145	5.00	1	5.00
	Consumer 42	17936929		Defective meter		3.00	1	3.00
	Consumer 43	17936926	146.3		148	1.70	1	1.70
	Consumer 44		482	Slow meter (theft)	482	5.00	1	5.00
	Consumer 45	9612726		Defective meter		3.00	1	3.00
	Consumer 46	24585	7974	Slow meter (theft)	7974	5.00	1	5.00
	Consumer 47	454154	2810		2811.7	1.70	1	1.70

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 48			Home Home closed		0.00	1	0.00
	Consumer 49	17838513	301.7		303	1.30	1	1.30
	Consumer 50	524357	869.6		871.1	1.50	1	1.50
	Consumer 51	522765	31301.2		31302.1	0.90	1	0.90
	Consumer 52	83027	29435		29436.5	1.50	1	1.50
	Consumer 53	8217607		Defective meter		3.00	1	3.00
	Consumer 54	8529119		Defective meter		3.00	1	3.00
	Consumer 55	136080	18952.3		18953.2	0.90	1	0.90
	Consumer 56	6044875	188		189.2	1.20	1	1.20
	Consumer 57	9730126		Defective meter		3.00	1	3.00
	Consumer 58	7707948		Defective meter		3.00	1	3.00
	Consumer 59	6041808	582.1		583.9	1.80	1	1.80
	Consumer 60	17842668	831.2		832.1	0.90	1	0.90
	Consumer 61	8521282	2676.8		2678	1.20	1	1.20
	Consumer 62	8610708	8249.4		8250	0.60	1	0.60
	Consumer 63	8544499	2238.1		2239.6	1.50	1	1.50
	Consumer 64	9601367	5046.2		5047	0.80	1	0.80
	Consumer 65	191928	1132.3		1133.9	1.60	1	1.60
	Consumer 66	8541428	2456.9		2458	1.10	1	1.10
	Consumer 67	9707028		Defective meter		3.00	1	3.00
	Consumer 68	8607710		Defective meter		3.00	1	3.00
	Consumer 69	7708986	625.9		627	1.10	1	1.10
	Consumer 70	9599886		Defective meter		3.00	1	3.00
	Consumer 71	18194980		Defective meter		3.00	1	3.00
	Consumer 72	17935453	1237.4		1239	1.60	1	1.60
	Consumer 73	8526027	2530		2531.1	1.10	1	1.10
	Consumer 74	8543923		Defective meter		3.00	1	3.00
	Consumer 75	8607464	5821.2		5822.9	1.70	1	1.70
	Consumer 76	8507449	659.2		660.6	1.40	1	1.40

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 77	17932788	482.1		483	0.90	1	0.90
	Consumer 78	8529530	3275.8		3276.9	1.10	1	1.10
	Consumer 79	8502143	5121.1		5122.7	1.60	1	1.60
	Consumer 80	6042382	2866.2		2868	1.80	1	1.80
	Consumer 81	8541205		Defective meter		3.00	1	3.00
	Total							**166.40**

Date	Location	Type	DT Meter no	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
24/09/2012	Pai Bagh Bharatpur city	Domestic		140.30	**20.38**%	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
24/09/2012	Consumer 1	8398522		Defective meter		3.00	1	3.00
	Consumer 2	944762	1620.2		1621	0.80	1	0.80
	Consumer 3	8548414		Defective meter		3.00	1	3.00
	Consumer 4	7831990	6876.4	Slow meter	6877	3.00	1	3.00
	Consumer 5	17839043	260		261.1	1.10	1	1.10
	Consumer 6	8549946	4167.6	Slow meter	4169.2	1.60	1	1.60
	Consumer 7	8548480	3150.3		3151.1	0.80	1	0.80
	Consumer 8	7834593		Defective meter		3.00	1	3.00
	Consumer 9	18508183	645.3		647	1.70	1	1.70
	Consumer 10	17935505	1674		1674.9	0.90	1	0.90
	Consumer 11	8397876		Defective meter		3.00	1	3.00
	Consumer 12	8606782		Defective meter		3.00	1	3.00
	Consumer 13	17935507	589.3		590.1	0.80	1	0.80
	Consumer 14	8502170	4117.2		4118.4	1.20	1	1.20
	Consumer 15	17845910	2162.7		2163.2	3.00	1	3.00
	Consumer 16	7834353		Defective meter		3.00	1	3.00
	Consumer 17	8543878	12215.2		12217	1.80	1	1.80
	Consumer 18	8545563	3430.4		3431.4	1.00	1	1.00
	Consumer 19	18507736	390.5	Slow meter	391	3.00	1	3.00
	Consumer 20	8392657		Defective meter		3.00	1	3.00
	Consumer 21	78322334		Defective meter		3.00	1	3.00
	Consumer 22	8415071	4462.2		4463	0.80	1	0.80
	Consumer 23	112559	10850.2		10851	0.80	1	0.80
	Consumer 24	17938680	643.2		645	1.80	1	1.80

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 25	17938540		Defective meter		3.00	1	3.00
	Consumer 26	8525550	7322.5		7325	2.50	1	2.50
	Consumer 27	860711	6892.6	Slow meter	6893	3.00	1	3.00
	Consumer 28	523724	199.9	Slow meter	200.1	3.00	1	3.00
	Consumer 29	949167	645.4		647.2	1.80	1	1.80
	Consumer 30	6928781	1580.4		1582.2	1.80	1	1.80
	Consumer 31	6928686	1592.8	Slow meter	1593	3.00	1	3.00
	Consumer 32	18509356	185.4		187	1.60	1	1.60
	Consumer 33	17932893	1132.3		1133	0.70	1	0.70
	Consumer 34	8500760	8085.3		8087	1.70	1	1.70
	Consumer 35	8540593	572.9		574	1.10	1	1.10
	Consumer 36			Home closed		0.00	1	0.00
	Consumer 37	127294	4682.4		4684	1.60	1	1.60
	Consumer 38	8526221	1457.3		1458	0.70	1	0.70
	Consumer 39	727909	7755.3		7756.5	1.20	1	1.20
	Consumer 40	104271	5000.5		5002	1.50	1	1.50
	Consumer 41			Home closed		0.00	1	0.00
	Consumer 42	622406	821.7		823	1.30	1	1.30
	Consumer 43	8507126	5925		5926.6	1.60	1	1.60
	Consumer 44	6928788	232.2		234	1.80	1	1.80
	Consumer 45	898832	1444.4		1446	1.60	1	1.60
	Consumer 46	8505761	515.8	Slow meter	516	3.00	1	3.00
	Consumer 47	9612450		Defective meter		3.00	1	3.00
	Consumer 48	8549140	1510.4		1512	1.60	1	1.60
	Consumer 49	8549196	2058.2		2059.4	1.20	1	1.20
	Consumer 50	8545566	2922.4		2923.9	1.50	1	1.50
	Consumer 51	8607778	725.3		726.7	1.40	1	1.40
	Consumer 52			Home closed		0.00	1	0.00
	Consumer 53	922418	2130.3		2131	0.70	1	0.70
	Consumer 54	17841677	1520.3		1521.2	0.90	1	0.90

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 55	8414403		Defective meter		3.00	1	3.00
	Consumer 56	6044917	2093.3		2095	1.70	1	1.70
	Consumer 57	18509444	492.9		494	1.10	1	1.10
	Consumer 58	8549126		Defective meter		3.00	1	3.00
	Consumer 59	7707036		Defective meter		3.00	1	3.00
	Consumer 60	7837792		Defective meter		3.00	1	3.00
	Consumer 61	8548412	899.3		900.3	1.00	1	1.00
	Total							**111.70**

* Average consumption for the consumers with defective meters considered as 3 units and for the consumers involved in theft of energy considered at 5 units

Commercial

Date	Location	Type	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
21/09/2012	Biheend Nagar Bharatpur city	Commercial	105	**29.52%**	63

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
21/09/2012						0.00		
	Consumer 1	6041556	159		160.5	1.50	1	1.50
	Consumer 2	17846818		Defective meter		3.00	1	3.00
	Consumer 3	17932366	1204		1204.5	0.50	1	0.50
	Consumer 4	18071237		Defective meter		3.00	1	3.00
	Consumer 5	9730614	375		376.8	1.80	1	1.80
	Consumer 6	17932655		Defective meter		3.00	1	3.00
	Consumer 7	8610923	13865		13867.4	2.40	1	2.40
	Consumer 8		2885	Slow meter (theft)	2885	5.00	1	5.00
	Consumer 9	8425320		Defective meter		3.00	1	3.00
	Consumer 10	18194976	676		678.3	2.30	1	2.30
	Consumer 11	18194984	882.2		884.3	2.10	1	2.10
	Consumer 12	7707877	1663.2		1663.4	0.20	1	0.20
	Consumer 13	18071697	874.8		875.6	0.80	1	0.80
	Consumer 14	619393		Defective meter		3.00	1	3.00
	Consumer 15	18194975		Defective meter		3.00	1	3.00
	Consumer 16	9706184		Defective meter		3.00	1	3.00
	Consumer 17	868326	21136.4		21136.9	0.50	1	0.50
	Consumer 18	7708130	728	Slow meter (theft)	728	5.00	1	5.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 19	8606724	2258		2259.5	1.50	1	1.50
	Consumer 20	7708665		Defective meter		3.00	1	3.00
	Consumer 21	8219376		Defective meter		3.00	1	3.00
	Consumer 22	8548464	4069.9		4070.3	0.40	1	0.40
	Consumer 23	7706155		Defective meter		3.00	1	3.00
	Consumer 24	6041806	498		499.3	1.30	1	1.30
	Consumer 25	428298	3902.8		3903.1	0.30	1	0.30
	Consumer 26	17932730	37		38.2	1.20	1	1.20
	Consumer 27	7707696	7438.2		7439.8	1.60	1	1.60
	Consumer 28	6043646	443.2		444	0.80	1	0.80
	Consumer 29	8543181		Defective meter		3.00	1	3.00
	Consumer 30	7708687		Defective meter		3.00	1	3.00
	Consumer 31	17846908	107.4		108.4	1.00	1	1.00
	Consumer 32	6039917	260.6		260.9	0.30	1	0.30
	Consumer 33		2493	Slow meter (theft)	2493	5.00	1	5.00
	Consumer 34	17939057	264.7		266	1.30	1	1.30
	Consumer 35	17937203	205.3		206.5	1.20	1	1.20
	Total							**74.00**

Date	Location	Type	DT Meter no	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
19/09/2012	Biheend Nagar Bharatpur city	Commercial		60	**10.00%**	25

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
19/09/2012	Consumer 1	7708071	1123		1124.6	1.60	1	1.60
	Consumer 2	812496		Defective meter		3.00	1	3.00
	Consumer 3	8397081		Defective meter		3.00	1	3.00
	Consumer 4	7708122	9340.2		9343	2.80	1	2.80
	Consumer 5	5120404	940.3		941	0.70	1	0.70
	Consumer 6	8217605	1253	Slow meter (theft)	1253	5.00	1	5.00
	Consumer 7	9612491		Defective meter		3.00	1	3.00
	Consumer 8		134667		134687	20.00	1	20.00
	Consumer 9	6021165	1586.4		1587	0.60	1	0.60
	Consumer 10	17843752	1076.3		1077.7	1.40	1	1.40
	Consumer 11	7707991		Defective meter		3.00	1	3.00
	Consumer 12	9612738	313.2		313.9	0.70	1	0.70
	Consumer 13	96010446		Defective meter		3.00	1	3.00
	Consumer 14	8525036	6063.2		6064	0.80	1	0.80
	Consumer 15	9713859	974.3		975	0.70	1	0.70
	Consumer 16	6043638	2876.6		2877	0.40	1	0.40
	Consumer 17	17932725	757.2		758	0.80	1	0.80
	Consumer 18	6040187	3669.2		3670	0.80	1	0.80
	Consumer 19	9612737	4576.6		4577.8	1.20	1	1.20
	Consumer 20	377573	32.5		34	1.50	1	1.50
	Total							**54.00**

Date	Location	Type	DT Meter no	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
21/09/2012	Biheend Nagar Bharatpur city	Commercial		105.00	**20.57%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
21/09/2012								
	Consumer 1	6041556	159		160.5	1.50	1	1.50
	Consumer 2	17846818		Defective meter		3.00	1	3.00
	Consumer 3	17932366	1204		1205.5	1.50	1	1.50
	Consumer 4	18071237		Defective meter		3.00	1	3.00
	Consumer 5	9730614	375		376.8	1.80	1	1.80
	Consumer 6	17932655		Defective meter		3.00	1	3.00
	Consumer 7	8610923	13865		13867.4	2.40	1	2.40
	Consumer 8		2885	Slow meter (theft)	2885	5.00	1	5.00
	Consumer 9	8425320		Defective meter		3.00	1	3.00
	Consumer 10	18194976	676		678.3	2.30	1	2.30
	Consumer 11	18194984	882.2		884.3	2.10	1	2.10
	Consumer 12	7707877	1663.2		1664.4	1.20	1	1.20
	Consumer 13	18071697	874.8		876.6	1.80	1	1.80
	Consumer 14	619393		Defective meter		3.00	1	3.00
	Consumer 15	18194975		Defective meter		3.00	1	3.00
	Consumer 16	9706184		Defective meter		3.00	1	3.00
	Consumer 17	868326	21136.4		21137.9	1.50	1	1.50
	Consumer 18	7708130	728	Slow meter (theft)	728	5.00	1	5.00
	Consumer 19	8606724	2258		2259.5	1.50	1	1.50
	Consumer 20	7708665		Defective meter		3.00	1	3.00

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 21	8219376		Defective meter		3.00	1	3.00
	Consumer 22	8548464	4069.9		4071.3	1.40	1	1.40
	Consumer 23	7706155		Defective meter		3.00	1	3.00
	Consumer 24	6041806	498		499.3	1.30	1	1.30
	Consumer 25	428298	3902.8		3904.1	1.30	1	1.30
	Consumer 26	17932730	37		38.7	1.70	1	1.70
	Consumer 27	7707696	7438.2		7439.8	1.60	1	1.60
	Consumer 28	6043646	443.2		445	1.80	1	1.80
	Consumer 29	8543181		Defective meter		3.00	1	3.00
	Consumer 30	7708687		Defective meter		3.00	1	3.00
	Consumer 31	17846908	107.4		108.9	1.50	1	1.50
	Consumer 32	6039917	260.6		261.9	1.30	1	1.30
	Consumer 33		2493	Slow meter (theft)	2493	5.00	1	5.00
	Consumer 34	17939057	264.7		266	1.30	1	1.30
	Consumer 35	17937203	205.3		206.9	1.60	1	1.60
	Total							**83.40**

Date	Location	Type	DT Meter no	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
22/09/2012	Biheend Nagar Bharatpur city	Commercial		60.00	**15.00%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
22/09/2012	Consumer 1	7708071	1123		1124.6	1.60	1	1.60
	Consumer 2	812496		Defective meter		3.00	1	3.00
	Consumer 3	8397081		Defective meter		3.00	1	3.00
	Consumer 4	7708122	9340.2		9343	2.80	1	2.80
	Consumer 5	5120404	940.3		942	1.70	1	1.70
	Consumer 6	8217605	1253	Slow meter (theft)	1253	5.00	1	5.00
	Consumer 7	9612491		Defective meter		3.00	1	3.00
	Consumer 8		134667		134677	10.00	1	10.00
	Consumer 9	6021165	1586.4		1588	1.60	1	1.60
	Consumer 10	17843752	1076.3		1077.7	1.40	1	1.40
	Consumer 11	7707991		Defective meter		3.00	1	3.00
	Consumer 12	9612738	313.2		314.9	1.70	1	1.70
	Consumer 13	96010446		Defective meter		2.00	1	2.00
	Consumer 14	8525036	6063.2		6065	1.80	1	1.80
	Consumer 15	9713859	974.3		976	1.70	1	1.70
	Consumer 16	6043638	2876.6		2878	1.40	1	1.40
	Consumer 17	17932725	757.2		759	1.80	1	1.80
	Consumer 18	6040187	3669.2		3671	1.80	1	1.80
	Consumer 19	9612737	4576.6		4577.8	1.20	1	1.20
	Consumer 20	377573	32.5		34	1.50	1	1.50
	Total							**51.00**

Date	Location	Type	DT Meter no	Consumption (kWh)	Energy loss (%)	Capacity of DT (kVA)
22/09/2012	Bharatpur city	Commercial		63.00	**24.29%**	100

Date	Consumer	Meter No.	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
22/09/2012	Consumer 1	6022403	152.3		154	1.70	1	1.70
	Consumer 2	941287	429.4		431	1.60	1	1.60
	Consumer 3		370	Slow meter (theft)	370	5.00	1	5.00
	Consumer 4	18507569	232.1		233.5	1.40	1	1.40
	Consumer 5	7707985		Defective meter		3.00	1	3.00
	Consumer 6	8541426	868.3		870	1.70	1	1.70
	Consumer 7	6022365	325.7		327	1.30	1	1.30
	Consumer 8	868335	16635.9		16637.4	1.50	1	1.50
	Consumer 9	299023		Defective meter		3.00	1	3.00
	Consumer 10	960120	18698		18699.5	1.50	1	1.50
	Consumer 11	7709379		Defective meter		3.00	1	3.00
	Consumer 12	9707003		Defective meter		3.00	1	3.00
	Consumer 13	7709856	4267.3		4269	1.70	1	1.70
	Consumer 14	8427058	1429.3		1431	1.70	1	1.70
	Consumer 15	8423419		Defective meter		3.00	1	3.00
	Consumer 16	8548415		Defective meter		3.00	1	3.00
	Consumer 17	8546369	3098.3		3099.9	1.60	1	1.60
	Consumer 18	7709930	5230.3		5232	1.70	1	1.70
	Consumer 19	6022059	2594		2595.3	1.30	1	1.30
	Consumer 20	9705323		Defective meter		3.00	1	3.00
	Consumer 21	7707707		Defective meter		3.00	1	3.00
	Total							**47.70**

Industrial

Consumer	Meter No.	1st read	2nd read	M.F.	Consumption (for 15 minutes)
Consumer 1	44119	23700	23702.3	30	69.00
Consumer 2	52465	221900	221908	1.5	12.00
Consumer 3	10409846	59050	59056.2	1	6.20
Consumer 4	4823	300701	300710.1	2	18.20
Consumer 5	8347796	38713	38713.8	40	32.00
Consumer 6	258155	522653	522654	2	2.00
Consumer 7	42228	43853	43853.9	20	18.00
Consumer 8	4431	400185	400188	1.5	4.50
Consumer 9	10437	85793	85793.7	20	14.00
Consumer 10	4713	159137	159137.7	2	1.40

3.2 LT survey – Nagaur

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
22.9.2012	5495	49440.3	49442.6	2.3	40	92	100	15.87%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
22.9.2012	18114956	Consumer 1	74.90		75.60	0.70	1.00	0.70
	18115061	Consumer 2	60.00		60.40	0.40	1.00	0.40
	685180	Consumer 3	111.40		112.00	0.60	1.00	0.60
	685100	Consumer 4	71.80		72.90	1.10	1.00	1.10
	684923	Consumer 5	82.30		83.00	0.70	1.00	0.70
	Not visible	Consumer 6	0.00	Defective meter	0.00	0.00	1.00	0.00
	794001	Consumer 7	1205.20		1206.40	1.20	1.00	1.20
	692011	Consumer 8	92.50		92.90	0.40	1.00	0.40
	825990	Consumer 9	151.20		151.60	0.40	1.00	0.40
	1169221	Consumer 10	100.10		100.90	0.80	1.00	0.80
	1169240	Consumer 11	74.00		74.90	0.90	1.00	0.90
	674224	Consumer 12	64.30		64.60	0.30	1.00	0.30
	825100	Consumer 13	1300.00		1301.00	1.00	1.00	1.00
	825923	Consumer 14	302.50		303.30	0.80	1.00	0.80
	910425	Consumer 15	52.00	Provisional billing	52.40	0.40	1.00	0.40
	11190023	Consumer 16	181.20	Provisional billing	181.70	0.50	1.00	0.50
	1118420	Consumer 17	201.20		202.00	0.80	1.00	0.80
	723912	Consumer 18	79.20		79.90	0.70	1.00	0.70
	723212	Consumer 19	821.40		821.90	0.50	1.00	0.50
	884615	Consumer 20	555.00	Provisional billing	556.40	1.40	1.00	1.40
	665259	Consumer 21	110.00		110.60	0.60	1.00	0.60

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	665744	Consumer 22	95.60		96.30	0.70	1.00	0.70
	884112	Consumer 23	120.30		120.90	0.60	1.00	0.60
	615559	Consumer 24	113.90		114.20	0.30	1.00	0.30
	789226	Consumer 25	1844.70		1846.00	1.30	1.00	1.30
	889276	Consumer 26	117.70	Provisional billing	118.90	1.20	1.00	1.20
	112248	Consumer 27	71.50		71.90	0.40	1.00	0.40
	578818	Consumer 28	59.80		60.30	0.50	1.00	0.50
	405386	Consumer 29	320.00		320.70	0.70	1.00	0.70
	405516	Consumer 30	156.10		156.60	0.50	1.00	0.50
	821258	Consumer 31	119.00		119.80	0.80	1.00	0.80
	834955	Consumer 32	430.20		431.80	1.60	1.00	1.60
	11794050	Consumer 33	701.10	Provisional billing	701.60	0.50	1.00	0.50
	11792592	Consumer 34	600.10	Provisional billing	600.50	0.40	1.00	0.40
	450556	Consumer 35	78.80		80.40	1.60	1.00	1.60
	810896	Consumer 36	302.80		303.10	0.30	1.00	0.30
	810855	Consumer 37	370.60		370.70	0.10	1.00	0.10
	723990	Consumer 38	125.70		126.00	0.30	1.00	0.30
	769287	Consumer 39	91.90		92.80	0.90	1.00	0.90
	Not visible	Consumer 40	0.00	Defective meter	0.00	0.00	1.00	0.00
	9127789	Consumer 41	401.20		403.00	1.80	1.00	1.80
	9127114	Consumer 42	1250.00		1251.10	1.10	1.00	1.10
	684170	Consumer 43	84.90		85.60	0.70	1.00	0.70
	2049884	Consumer 44	472.20		472.60	0.40	1.00	0.40
	5830727	Consumer 45	1475.10		1475.90	0.80	1.00	0.80
	900428	Consumer 46	145.90		147.30	1.40	1.00	1.40
	900748	Consumer 47	172.00		172.80	0.80	1.00	0.80
	759021	Consumer 48	251.10		252.00	0.90	1.00	0.90
	522179	Consumer 49	210.00		210.70	0.70	1.00	0.70

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	648200	Consumer 50	37.00		38.10	1.10	1.00	1.10
	648421	Consumer 51	57.20		57.90	0.70	1.00	0.70
	6605221	Consumer 52	170.50		171.00	0.50	1.00	0.50
	6625012	Consumer 53	302.90		303.00	0.10	1.00	0.10
	7009951	Consumer 54	3112.80		3113.40	0.60	1.00	0.60
	4792011	Consumer 55	92.20		92.60	0.40	1.00	0.40
	5921000	Consumer 56	293.40		298.10	4.70	1.00	4.70
	3219974	Consumer 57	79.90		80.60	0.70	1.00	0.70
	3219077	Consumer 58	300.40		301.00	0.60	1.00	0.60
	8991124	Consumer 59	388.10		389.00	0.90	1.00	0.90
	899722	Consumer 60	149.90		150.30	0.40	1.00	0.40
	1170592	Consumer 61	71.10		71.40	0.30	1.00	0.30
	4332714	Consumer 62	155.60		157.00	1.40	1.00	1.40
	4334149	Consumer 63	660.50		661.00	0.50	1.00	0.50
	1117081	Consumer 64	233.20		234.00	0.80	1.00	0.80
	1124992	Consumer 65	24.30		24.80	0.50	1.00	0.50
	Not visible	Consumer 66	0.00	Defective meter	0.00	0.00	1.00	0.00
	6554616	Consumer 67	944.10		944.40	0.30	1.00	0.30
	4349190	Consumer 68	181.10		181.50	0.40	1.00	0.40
	743224	Consumer 69	189.00		189.50	0.50	1.00	0.50
	802447	Consumer 70	2001.40		2002.00	0.60	1.00	0.60
	2460080	Consumer 71	402.40		402.90	0.50	1.00	0.50
	2461009	Consumer 72	44.70		50.00	5.30	1.00	5.30
	5562089	Consumer 73	312.40		312.90	0.50	1.00	0.50
	5562095	Consumer 74	219.10		219.20	0.10	1.00	0.10
	5561024	Consumer 75	186.50		187.00	0.50	1.00	0.50
	5561174	Consumer 76	302.50	Provisional billing	303.10	0.60	1.00	0.60
	5569241	Consumer 77	191.10	Provisional billing	192.00	0.90	1.00	0.90
	5567006	Consumer 78	77.00	Provisional billing	77.30	0.30	1.00	0.30

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	574209	Consumer 79	71.40	Provisional billing	71.90	0.50	1.00	0.50
	574218	Consumer 80	476.40	Provisional billing	476.80	0.40	1.00	0.40
	574220	Consumer 81	136.00		136.40	0.40	1.00	0.40
	574500	Consumer 82	64.70		65.00	0.30	1.00	0.30
	577611	Consumer 83	612.20		612.90	0.70	1.00	0.70
	577701	Consumer 84	72.90		73.30	0.40	1.00	0.40
	577982	Consumer 85	421.10		421.90	0.80	1.00	0.80
	6457077	Consumer 86	114.10		114.50	0.40	1.00	0.40
	6459911	Consumer 87	245.40		246.00	0.60	1.00	0.60
	6450924	Consumer 88	398.10		398.80	0.70	1.00	0.70
	6479644	Consumer 89	67.40		67.70	0.30	1.00	0.30
	647005	Consumer 90	100.50		100.80	0.30	1.00	0.30
	6484759	Consumer 91	351.10		352.00	0.90	1.00	0.90
	11899711	Consumer 92	330.40		330.80	0.40	1.00	0.40
	11892004	Consumer 93	629.80		630.30	0.50	1.00	0.50
	Not visible	Consumer 94	0.00	Defective meter	0.00	0.00	1.00	0.00
	4452107	Consumer 95	724.10		724.20	0.10	1.00	0.10
	4453071	Consumer 96	179.20		179.90	0.70	1.00	0.70
	4452094	Consumer 97	181.50		182.00	0.50	1.00	0.50
	Not visible	Consumer 98	0.00	Defective meter	0.00	0.00	1.00	0.00
	44572191	Consumer 99	744.20		744.40	0.20	1.00	0.20
	44579200	Consumer 100	421.10		421.30	0.20	1.00	0.20
	464556	Consumer 101	152.00		152.50	0.50	1.00	0.50
	464004	Consumer 102	182.10		182.50	0.40	1.00	0.40
	6654926	Consumer 103	90.00		90.30	0.30	1.00	0.30
	6659828	Consumer 104	1000.50		1001.00	0.50	1.00	0.50
	6650814	Consumer 105	180.00		180.60	0.60	1.00	0.60
	6652219	Consumer 106	292.30		292.90	0.60	1.00	0.60
	744692	Consumer 107	77.10		77.50	0.40	1.00	0.40
	743829	Consumer 108	200.90		201.00	0.10	1.00	0.10

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	6669987	Consumer 109	277.00		277.70	0.70	1.00	0.70
	666140	Consumer 110	449.20		449.60	0.40	1.00	0.40
	743800	Consumer 111	52.10		52.40	0.30	1.00	0.30
	6321179	Consumer 112	55.00		55.40	0.40	1.00	0.40
	4230078	Consumer 113	210.00		210.30	0.30	1.00	0.30
	42300090	Consumer 114	201.10		201.30	0.20	1.00	0.20
	5240221	Consumer 115	102.40		103.00	0.60	1.00	0.60
	529472	Consumer 116	88.00	Provisional billing	88.70	0.70	1.00	0.70
	529472	Consumer 117	52.10	Provisional billing	52.40	0.30	1.00	0.30
	374210	Consumer 118	540.20	Provisional billing	540.60	0.40	1.00	0.40
	374427	Consumer 119	321.00		321.20	0.20	1.00	0.20
	Total		**37917.30**		**37994.70**	**77.40**		**77.40**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
25.9.2012	1154	48723.0	48725.1	2.1	40	84	100	25.00%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
25.9.2012	325207	Consumer 1	70.10		70.70	0.60	1.00	0.60
	325119	Consumer 2	95.50		100.00	4.50	1.00	4.50
	325188	Consumer 3	119.70		120.00	0.30	1.00	0.30
	3217711	Consumer 4	89.00	Provisional billing	89.40	0.40	1.00	0.40
	3219192	Consumer 5	52.10	Provisional billing	52.30	0.20	1.00	0.20
	3440240	Consumer 6	712.60	Provisional billing	713.00	0.40	1.00	0.40
	3251006	Consumer 7	40.00	Provisional billing	40.80	0.80	1.00	0.80
	325215	Consumer 8	61.70		62.30	0.60	1.00	0.60
	6484062	Consumer 9	122.10		122.90	0.80	1.00	0.80
	6481921	Consumer 10	1621.20		1623.00	1.80	1.00	1.80
	6568481	Consumer 11	1720.70		1721.00	0.30	1.00	0.30
	6567948	Consumer 12	127.10		127.70	0.60	1.00	0.60
	4902248	Consumer 13	201.90	Provisional billing	202.00	0.10	1.00	0.10
	6467299	Consumer 14	192.20	Provisional billing	192.60	0.40	1.00	0.40
	45677218	Consumer 15	799.10		799.80	0.70	1.00	0.70
	45640012	Consumer 16	145.00		145.60	0.60	1.00	0.60
	18117149	Consumer 17	177.00		177.50	0.50	1.00	0.50
	33791105	Consumer 18	57.10		57.50	0.40	1.00	0.40
	3791051	Consumer 19	171.10		171.40	0.30	1.00	0.30
	3791152	Consumer 20	81.10		82.00	0.90	1.00	0.90
	6495500	Consumer 21	88.10		88.50	0.40	1.00	0.40
	7491170	Consumer 22	299.80		300.40	0.60	1.00	0.60
	6492479	Consumer 23	911.10		911.50	0.40	1.00	0.40
	4450215	Consumer 24	182.10		182.20	0.10	1.00	0.10

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	4452214	Consumer 25	171.50		172.00	0.50	1.00	0.50
	4451400	Consumer 26	166.10		166.90	0.80	1.00	0.80
	6482001	Consumer 27	171.20		171.70	0.50	1.00	0.50
	6481171	Consumer 28	44.10		44.50	0.40	1.00	0.40
	6461521	Consumer 29	51.20		51.80	0.60	1.00	0.60
	4907666	Consumer 30	81.40		81.80	0.40	1.00	0.40
	48818521	Consumer 31	91.70		92.00	0.30	1.00	0.30
	48874210	Consumer 32	375.50		376.00	0.50	1.00	0.50
	48804500	Consumer 33	992.40		993.20	0.80	1.00	0.80
	48840622	Consumer 34	102.50		103.10	0.60	1.00	0.60
	Not visible	Consumer 35	0.00	Closed	0.00	0.00	1.00	0.00
	556006	Consumer 36	126.40		126.80	0.40	1.00	0.40
	5563314	Consumer 37	207.40		207.70	0.30	1.00	0.30
	55621216	Consumer 38	44.40		44.90	0.50	1.00	0.50
	4507149	Consumer 39	763.30		763.90	0.60	1.00	0.60
	449962	Consumer 40	1260.10		1261.00	0.90	1.00	0.90
	449900	Consumer 41	44.80		45.20	0.40	1.00	0.40
	449123	Consumer 42	70.70		71.00	0.30	1.00	0.30
	4322334	Consumer 43	85.20		86.00	0.80	1.00	0.80
	4329921	Consumer 44	99.10		99.70	0.60	1.00	0.60
	55601415	Consumer 45	109.80		110.40	0.60	1.00	0.60
	56102172	Consumer 46	1720.10		1720.90	0.80	1.00	0.80
	5563445	Consumer 47	181.10		181.60	0.50	1.00	0.50
	5774412	Consumer 48	154.50		155.00	0.50	1.00	0.50
	5563121	Consumer 49	312.20		313.00	0.80	1.00	0.80
	331240	Consumer 50	2101.10		2102.00	0.90	1.00	0.90
	3314450	Consumer 51	77.90		78.10	0.20	1.00	0.20
	3329891	Consumer 52	320.00		320.50	0.50	1.00	0.50
	3321001	Consumer 53	233.40		233.90	0.50	1.00	0.50
	3329988	Consumer 54	119.40		120.00	0.60	1.00	0.60

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	6492432	Consumer 55	884.10		885.10	1.00	1.00	1.00
	6493211	Consumer 56	242.90		243.40	0.50	1.00	0.50
	6492214	Consumer 57	177.70		178.00	0.30	1.00	0.30
	1114922	Consumer 58	87.40		88.10	0.70	1.00	0.70
	1115027	Consumer 59	45.50		46.20	0.70	1.00	0.70
	455321	Consumer 60	45.40		46.50	1.10	1.00	1.10
	455991	Consumer 61	67.20		68.00	0.80	1.00	0.80
	4901241	Consumer 62	221.10		222.00	0.90	1.00	0.90
	4909911	Consumer 63	119.00		120.00	1.00	1.00	1.00
	4900077	Consumer 64	249.90		250.60	0.70	1.00	0.70
	45521011	Consumer 65	79.00		79.80	0.80	1.00	0.80
	55010121	Consumer 66	77.10		77.50	0.40	1.00	0.40
	4662178	Consumer 67	220.70		221.00	0.30	1.00	0.30
	466711	Consumer 68	210.90		211.70	0.80	1.00	0.80
	88133321	Consumer 69	82.40		86.00	3.60	1.00	3.60
	8814921	Consumer 70	44.10		44.30	0.20	1.00	0.20
	81823310	Consumer 71	166.70		167.00	0.30	1.00	0.30
	Not visible	Consumer 72	0.00	Closed	0.00	0.00	1.00	0.00
	8189219	Consumer 73	61.30		61.70	0.40	1.00	0.40
	8184442	Consumer 74	110.80		112.10	1.30	1.00	1.30
	8816512	Consumer 75	106.20		107.00	0.80	1.00	0.80
	4900770	Consumer 76	907.10		907.60	0.50	1.00	0.50
	4881451	Consumer 77	717.40		717.70	0.30	1.00	0.30
	8441591	Consumer 78	84.20		84.40	0.20	1.00	0.20
	342778	Consumer 79	970.10		970.50	0.40	1.00	0.40
	342000	Consumer 80	107.20	Provisional billing	107.50	0.30	1.00	0.30
	4657411	Consumer 81	517.40	Provisional billing	517.60	0.20	1.00	0.20
	7174337	Consumer 82	84.20		85.00	0.80	1.00	0.80
	7174247	Consumer 83	211.40	Provisional billing	211.70	0.30	1.00	0.30
	7170022	Consumer 84	25.90	Provisional billing	26.00	0.10	1.00	0.10

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	3235559	Consumer 85	71.10	Provisional billing	71.40	0.30	1.00	0.30
	445023	Consumer 86	140.90	Provisional billing	141.50	0.60	1.00	0.60
	44623211	Consumer 87	214.90		216.20	1.30	1.00	1.30
	4452312	Consumer 88	291.70		292.00	0.30	1.00	0.30
	7769074	Consumer 89	1889.00		1889.90	0.90	1.00	0.90
	777992	Consumer 90	32.20		32.60	0.40	1.00	0.40
	723442	Consumer 91	94.20		94.50	0.30	1.00	0.30
	43429900	Consumer 92	71.50		71.80	0.30	1.00	0.30
	432911	Consumer 93	66.80		67.00	0.20	1.00	0.20
	444572	Consumer 94	65.90		66.60	0.70	1.00	0.70
	5150211	Consumer 95	75.20		75.90	0.70	1.00	0.70
	Not visible	Consumer 96	0.00	Closed	0.00	0.00	1.00	0.00
	5431972	Consumer 97	998.70		999.30	0.60	1.00	0.60
	6420074	Consumer 98	668.30		668.70	0.40	1.00	0.40
	6774420	Consumer 99	78.70		79.00	0.30	1.00	0.30
	6446427	Consumer 100	673.90		674.60	0.70	1.00	0.70
	642970	Consumer 101	898.70		899.60	0.90	1.00	0.90
	5742001	Consumer 102	113.40		113.80	0.40	1.00	0.40
	572554	Consumer 103	566.70		567.10	0.40	1.00	0.40
	323552	Consumer 104	44.50		44.50	0.00	1.00	0.00
	4928766	Consumer 105	98.90		99.70	0.80	1.00	0.80
	Total		**32495.40**		**32558.40**	**63.00**		**63.00**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
26.9.2012	4948	43287.3	43288.8	1.5	40	60	100	16.17%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
26.9.2012	356152	Consumer 1	99.70		100.10	0.40	1.00	0.40
	210007	Consumer 2	89.00	Provisional billing	89.70	0.70	1.00	0.70
	979680	Consumer 3	945.60		945.90	0.30	1.00	0.30
	655528	Consumer 4	45.90		46.20	0.30	1.00	0.30
	998509	Consumer 5	867.20	Provisional billing	867.70	0.50	1.00	0.50
	900635	Consumer 6	134.20		134.90	0.70	1.00	0.70
	220490	Consumer 7	116.50		117.10	0.60	1.00	0.60
	158204	Consumer 8	93.40		93.90	0.50	1.00	0.50
	850507	Consumer 9	90.00		90.80	0.80	1.00	0.80
	347668	Consumer 10	70.90		71.40	0.50	1.00	0.50
	671017	Consumer 11	67.50		68.00	0.50	1.00	0.50
	144564	Consumer 12	207.80		208.20	0.40	1.00	0.40
	7700099	Consumer 13	436.70	Provisional billing	437.00	0.30	1.00	0.30
	143700	Consumer 14	323.10		323.70	0.60	1.00	0.60
	945829	Consumer 15	55.00		55.40	0.40	1.00	0.40
	870562	Consumer 16	744.00		744.90	0.90	1.00	0.90
	841375	Consumer 17	197.00		197.50	0.50	1.00	0.50
	160650	Consumer 18	158.70		159.00	0.30	1.00	0.30
	348032	Consumer 19	180.10	Provisional billing	180.80	0.70	1.00	0.70
	878627	Consumer 20	766.40		766.70	0.30	1.00	0.30
	29389	Consumer 21	492.10		492.50	0.40	1.00	0.40
	333753	Consumer 22	443.70		444.10	0.40	1.00	0.40
	318822	Consumer 23	956.70		957.20	0.50	1.00	0.50
	990036	Consumer 24	343.30		343.70	0.40	1.00	0.40
	804660	Consumer 25	177.00		177.50	0.50	1.00	0.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	974345	Consumer 26	83.20		83.40	0.20	1.00	0.20
	358999	Consumer 27	80.90		81.20	0.30	1.00	0.30
	507588	Consumer 28	69.90		70.10	0.20	1.00	0.20
	540851	Consumer 29	688.90		689.40	0.50	1.00	0.50
	405679	Consumer 30	91.10		91.30	0.20	1.00	0.20
	199203	Consumer 31	93.40		93.70	0.30	1.00	0.30
	197921	Consumer 32	57.00		57.50	0.50	1.00	0.50
	489349	Consumer 33	74.30		74.90	0.60	1.00	0.60
	176197	Consumer 34	204.90		205.50	0.60	1.00	0.60
	10280	Consumer 35	100.30		100.70	0.40	1.00	0.40
	8166362	Consumer 36	869.70		869.90	0.20	1.00	0.20
	5624361	Consumer 37	933.40		934.00	0.60	1.00	0.60
	2329660	Consumer 38	623.30		623.60	0.30	1.00	0.30
	315210	Consumer 39	458.40		458.80	0.40	1.00	0.40
	2150113	Consumer 40	76.80		77.10	0.30	1.00	0.30
	Not visible	Consumer 41	0.00	Closed	0.00	0.00	1.00	0.00
	326829	Consumer 42	433.20		433.80	0.60	1.00	0.60
	Not visible	Consumer 43	0.00	Closed	0.00	0.00	1.00	0.00
	298140	Consumer 44	98.50		99.30	0.80	1.00	0.80
	4994305	Consumer 45	76.50		76.80	0.30	1.00	0.30
	518365	Consumer 46	876.50		876.90	0.40	1.00	0.40
	740248	Consumer 47	388.90		389.60	0.70	1.00	0.70
	270421	Consumer 48	326.70		327.10	0.40	1.00	0.40
	4157489	Consumer 49	110.60		110.90	0.30	1.00	0.30
	5418510	Consumer 50	320.90		321.40	0.50	1.00	0.50
	34735204	Consumer 51	744.30		744.90	0.60	1.00	0.60
	88620110	Consumer 52	349.80		350.10	0.30	1.00	0.30
	964339	Consumer 53	67.90		68.60	0.70	1.00	0.70
	296835	Consumer 54	54.40		54.70	0.30	1.00	0.30
	249040	Consumer 55	65.00		65.20	0.20	1.00	0.20

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	837935	Consumer 56	750.50		750.70	0.20	1.00	0.20
	740803	Consumer 57	337.20		337.70	0.50	1.00	0.50
	110798	Consumer 58	61.10		61.50	0.40	1.00	0.40
	345006	Consumer 59	769.90		770.30	0.40	1.00	0.40
	438576	Consumer 60	219.70		220.00	0.30	1.00	0.30
	628537	Consumer 61	200.60		201.00	0.40	1.00	0.40
	493335	Consumer 62	289.00		289.60	0.60	1.00	0.60
	638704	Consumer 63	879.60		879.90	0.30	1.00	0.30
	283115	Consumer 64	1161.70		1162.20	0.50	1.00	0.50
	579752	Consumer 65	848.90		849.30	0.40	1.00	0.40
	246693	Consumer 66	940.60		941.00	0.40	1.00	0.40
	831518	Consumer 67	518.90		519.00	0.10	1.00	0.10
	554928	Consumer 68	597.30		597.70	0.40	1.00	0.40
	663785	Consumer 69	581.30		581.50	0.20	1.00	0.20
	148258	Consumer 70	281.10		281.70	0.60	1.00	0.60
	753669	Consumer 71	145.40		145.90	0.50	1.00	0.50
	589432	Consumer 72	112.00		119.40	7.40	1.00	7.40
	568473	Consumer 73	162.80		163.20	0.40	1.00	0.40
	829799	Consumer 74	27.80		28.40	0.60	1.00	0.60
	316879	Consumer 75	496.70		497.10	0.40	1.00	0.40
	23488181	Consumer 76	310.80		311.30	0.50	1.00	0.50
	3113513	Consumer 77	93.30		93.90	0.60	1.00	0.60
	1539221	Consumer 78	579.20		579.70	0.50	1.00	0.50
	Not visible	Consumer 79	0.00	Defective meter	0.00	0.00	1.00	0.00
	9985581	Consumer 80	74.60		74.80	0.20	1.00	0.20
	6503491	Consumer 81	53.70		54.00	0.30	1.00	0.30
	2057789	Consumer 82	83.60		83.90	0.30	1.00	0.30
	4387563	Consumer 83	922.50		923.10	0.60	1.00	0.60
	894493	Consumer 84	728.50	Provisional billing	728.90	0.40	1.00	0.40
	718115	Consumer 85	464.60		465.10	0.50	1.00	0.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	511362	Consumer 86	398.00		398.60	0.60	1.00	0.60
	510731	Consumer 87	127.60		127.90	0.30	1.00	0.30
	38735222	Consumer 88	109.00		109.70	0.70	1.00	0.70
	1759532	Consumer 89	37.60		38.10	0.50	1.00	0.50
	Not visible	Consumer 90	0.00	Closed	0.00	0.00	1.00	0.00
	522916	Consumer 91	58.70		59.40	0.70	1.00	0.70
	221882	Consumer 92	836.40		836.90	0.50	1.00	0.50
	714779	Consumer 93	102.30		102.70	0.40	1.00	0.40
	269218	Consumer 94	101.00		101.70	0.70	1.00	0.70
	530436	Consumer 95	111.90		112.10	0.20	1.00	0.20
	2288895	Consumer 96	60.60		60.90	0.30	1.00	0.30
	451866	Consumer 97	238.10		238.80	0.70	1.00	0.70
	753582	Consumer 98	271.10		271.50	0.40	1.00	0.40
	623674	Consumer 99	301.30		301.80	0.50	1.00	0.50
	96996464	Consumer 100	99.10		99.60	0.50	1.00	0.50
	7688700	Consumer 101	341.10		341.40	0.30	1.00	0.30
	Total		**32406.90**		**32457.20**	**50.30**		**50.30**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
27.9.2012	4338	896.20	897.9	1.7	40	68	100	19.85%

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
1	689201	Consumer 1	745.50		745.80	0.30	1.00	0.30
2	2710042	Consumer 2	98.70		99.10	0.40	1.00	0.40
3		Consumer 3	0.00	Closed	0.00	0.00	1.00	0.00
4	333255	Consumer 4	134.20		134.70	0.50	1.00	0.50
5	879300	Consumer 5	452.30		452.60	0.30	1.00	0.30
6	955766	Consumer 6	657.40	Provisional billing	657.90	0.50	1.00	0.50
7	356475	Consumer 7	122.20		122.90	0.70	1.00	0.70
8	787815	Consumer 8	978.50		978.80	0.30	1.00	0.30
9	251863	Consumer 9	365.90		366.30	0.40	1.00	0.40
10		Consumer 10	0.00	Closed	0.00	0.00	1.00	0.00
11	4131547	Consumer 11	114.30		115.50	1.20	1.00	1.20
12	654513	Consumer 12	153.00		153.60	0.60	1.00	0.60
13	8745001	Consumer 13	325.60		325.90	0.30	1.00	0.30
14	279615	Consumer 14	214.90		215.50	0.60	1.00	0.60
15	189913	Consumer 15	237.60		238.20	0.60	1.00	0.60
16	840522	Consumer 16	244.60		244.90	0.30	1.00	0.30
17	368521	Consumer 17	79.90		80.70	0.80	1.00	0.80
18	611285	Consumer 18	174.50		174.90	0.40	1.00	0.40
19	325844	Consumer 19	879.90		880.30	0.40	1.00	0.40
20	360718	Consumer 20	55.80		56.20	0.40	1.00	0.40
21	264301	Consumer 21	58.10		59.10	1.00	1.00	1.00
22	660791	Consumer 22	81.40		81.90	0.50	1.00	0.50
23	1266681	Consumer 23	84.40		85.00	0.60	1.00	0.60
24	539015	Consumer 24	92.50		92.90	0.40	1.00	0.40
25	943392	Consumer 25	58.80		59.00	0.20	1.00	0.20

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
26	22592283	Consumer 26	390.90		391.40	0.50	1.00	0.50
27	2901132	Consumer 27	481.10		481.60	0.50	1.00	0.50
28	62714659	Consumer 28	956.60		957.10	0.50	1.00	0.50
29	49111236	Consumer 29	90.00		90.50	0.50	1.00	0.50
30	13314271	Consumer 30	58.20		58.80	0.60	1.00	0.60
31	1140867	Consumer 31	483.80		484.20	0.40	1.00	0.40
32	35412272	Consumer 32	518.60		519.00	0.40	1.00	0.40
33	741948	Consumer 33	191.80		192.20	0.40	1.00	0.40
34	7812693	Consumer 34	497.00		497.70	0.70	1.00	0.70
35	104806	Consumer 35	375.80		376.50	0.70	1.00	0.70
36	2470888	Consumer 36	391.20		391.80	0.60	1.00	0.60
37	1368889	Consumer 37	411.00		411.80	0.80	1.00	0.80
38	439421	Consumer 38	421.80		422.20	0.40	1.00	0.40
39	4164301	Consumer 39	597.80		598.30	0.50	1.00	0.50
40	4045170	Consumer 40	533.10		533.80	0.70	1.00	0.70
41	444824	Consumer 41	472.10		472.50	0.40	1.00	0.40
42	1839400	Consumer 42	170.30		170.90	0.60	1.00	0.60
43	3850792	Consumer 43	126.20		126.60	0.40	1.00	0.40
44	7676371	Consumer 44	1693.50		1694.50	1.00	1.00	1.00
45	1534804	Consumer 45	75.50		75.90	0.40	1.00	0.40
46	8748215	Consumer 46	73.90		74.40	0.50	1.00	0.50
47	5058487	Consumer 47	89.40		89.80	0.40	1.00	0.40
48	329078	Consumer 48	461.20		461.90	0.70	1.00	0.70
49	3170409	Consumer 49	174.50		175.10	0.60	1.00	0.60
50	210095	Consumer 50	893.30		894.00	0.70	1.00	0.70
51	4232455	Consumer 51	45.70	Provisional billing	46.30	0.60	1.00	0.60
52	600884	Consumer 52	78.40		78.80	0.40	1.00	0.40
53	8110400	Consumer 53	934.50		934.70	0.20	1.00	0.20
54	369984	Consumer 54	522.80		523.00	0.20	1.00	0.20
55	9027033	Consumer 55	640.90		641.30	0.40	1.00	0.40

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
56	418983	Consumer 56	264.90		265.40	0.50	1.00	0.50
57	7653410	Consumer 57	626.80		627.20	0.40	1.00	0.40
58	862204	Consumer 58	238.90		239.60	0.70	1.00	0.70
59	748101	Consumer 59	731.00		731.30	0.30	1.00	0.30
60	547646	Consumer 60	983.70		984.00	0.30	1.00	0.30
61	2211720	Consumer 61	803.40		804.00	0.60	1.00	0.60
62	4753886	Consumer 62	703.70		704.10	0.40	1.00	0.40
63	427083	Consumer 63	785.60		785.90	0.30	1.00	0.30
64	29089	Consumer 64	438.90		439.40	0.50	1.00	0.50
65	516934	Consumer 65	179.50		179.90	0.40	1.00	0.40
66	5267717	Consumer 66	158.60		159.10	0.50	1.00	0.50
67	21812111	Consumer 67	326.70		327.20	0.50	1.00	0.50
68	7111236	Consumer 68	608.90		609.30	0.40	1.00	0.40
69	5401067	Consumer 69	367.50		367.90	0.40	1.00	0.40
70	870087	Consumer 70	487.00		487.40	0.40	1.00	0.40
71	3216288	Consumer 71	198.70		199.20	0.50	1.00	0.50
72	5268797	Consumer 72	488.70		489.50	0.80	1.00	0.80
73	677091	Consumer 73	183.50		184.10	0.60	1.00	0.60
74	1740767	Consumer 74	287.60		288.00	0.40	1.00	0.40
75	5029260	Consumer 75	234.80		235.20	0.40	1.00	0.40
76	5482319	Consumer 76	209.70		210.00	0.30	1.00	0.30
77	7627062	Consumer 77	287.90		288.20	0.30	1.00	0.30
78	Not visible	Consumer 78	0.00	Closed	0.00	0.00	1.00	0.00
79	3974449	Consumer 79	218.70		219.30	0.60	1.00	0.60
80	1028934	Consumer 80	547.90		548.70	0.80	1.00	0.80
81	5777647	Consumer 81	769.00		769.80	0.80	1.00	0.80
82	1590820	Consumer 82	82.40		83.00	0.60	1.00	0.60
83	1864711	Consumer 83	476.60		477.00	0.40	1.00	0.40
84	447567	Consumer 84	387.60		388.10	0.50	1.00	0.50
85	1647249	Consumer 85	390.20		390.60	0.40	1.00	0.40

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
86	1287422	Consumer 86	176.80		177.40	0.60	1.00	0.60
87	6096488	Consumer 87	712.80		713.40	0.60	1.00	0.60
88	3292813	Consumer 88	482.10		482.70	0.60	1.00	0.60
89	480981	Consumer 89	155.00		155.80	0.80	1.00	0.80
90	4921681	Consumer 90	193.50		193.80	0.30	1.00	0.30
91	2653453	Consumer 91	73.40		74.00	0.60	1.00	0.60
92	7968614	Consumer 92	74.90		75.50	0.60	1.00	0.60
93	57748946	Consumer 93	82.30		82.90	0.60	1.00	0.60
94	239954	Consumer 94	88.90		89.70	0.80	1.00	0.80
95	921208	Consumer 95	79.20		79.60	0.40	1.00	0.40
96	710027	Consumer 96	489.00		489.60	0.60	1.00	0.60
97	100856	Consumer 97	384.60		384.90	0.30	1.00	0.30
98	944727	Consumer 98	710.10		710.60	0.50	1.00	0.50
99	338639	Consumer 99	99.30		99.80	0.50	1.00	0.50
100	325726	Consumer 100	98.30		98.90	0.60	1.00	0.60
101	8008940	Consumer 101	399.10		399.60	0.50	1.00	0.50
102	227881	Consumer 102	383.50		383.90	0.40	1.00	0.40
103	3439240	Consumer 103	923.10		923.80	0.70	1.00	0.70
104	4675541	Consumer 104	2100.20		2100.90	0.70	1.00	0.70
105	670577	Consumer 105	67.30		67.70	0.40	1.00	0.40
106	8930250	Consumer 106	81.90		82.50	0.60	1.00	0.60
107	6115304	Consumer 107	732.40		732.80	0.40	1.00	0.40
108	595581	Consumer 108	219.40		219.80	0.40	1.00	0.40
109	2516638	Consumer 109	201.60		202.20	0.60	1.00	0.60
	Total		**40738.00**		**40792.50**	**54.50**		**54.50**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
27.9.2012	1768	40150.10	40151.90	1.80	40.00	72.00	100.00	24.58%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
27.9.2012	7961529	Consumer 1	85.70		89.30	3.60	1.00	3.60
	8266925	Consumer 2	78.90		79.60	0.70	1.00	0.70
	1052892	Consumer 3	878.50		879.10	0.60	1.00	0.60
	1100980	Consumer 4	346.70		347.50	0.80	1.00	0.80
	575968	Consumer 5	253.70	Defective meter	253.70	0.00	1.00	0.00
	454111	Consumer 6	768.40		769.10	0.70	1.00	0.70
	441006	Consumer 7	118.90		119.70	0.80	1.00	0.80
	342787	Consumer 8	123.20		123.80	0.60	1.00	0.60
	5517238	Consumer 9	341.20		341.60	0.40	1.00	0.40
	8262511	Consumer 10	93.80		94.30	0.50	1.00	0.50
	3214375	Consumer 11	91.10		91.60	0.50	1.00	0.50
	598703	Consumer 12	910.30		911.00	0.70	1.00	0.70
	7483998	Consumer 13	78.30		79.70	1.40	1.00	1.40
	Not visible	Consumer 14	0.00	Closed	0.00	0.00	1.00	0.00
	6718656	Consumer 15	363.70		364.30	0.60	1.00	0.60
	2427251	Consumer 16	763.70		763.90	0.20	1.00	0.20
	1116198	Consumer 17	273.60		274.20	0.60	1.00	0.60
	92808515	Consumer 18	102.30		103.00	0.70	1.00	0.70
	504631	Consumer 19	844.70		845.50	0.80	1.00	0.80
	753486	Consumer 20	49.80		50.40	0.60	1.00	0.60
	2905780	Consumer 21	100.20		100.80	0.60	1.00	0.60
	269670	Consumer 22	739.40	Provisional billing	739.90	0.50	1.00	0.50
	648619	Consumer 23	251.50		252.10	0.60	1.00	0.60
	52931326	Consumer 24	239.90		240.40	0.50	1.00	0.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	53143134	Consumer 25	421.50		422.20	0.70	1.00	0.70
	7211124	Consumer 26	87.30		87.70	0.40	1.00	0.40
	12332182	Consumer 27	901.20		902.10	0.90	1.00	0.90
	4151651	Consumer 28	2194.40		2195.10	0.70	1.00	0.70
	7605602	Consumer 29	64.90		65.50	0.60	1.00	0.60
	7084596	Consumer 30	98.90		99.90	1.00	1.00	1.00
	521411	Consumer 31	217.70		218.60	0.90	1.00	0.90
	1157868	Consumer 32	462.80		463.00	0.20	1.00	0.20
	3018014	Consumer 33	979.30		979.60	0.30	1.00	0.30
	37431126	Consumer 34	512.70		513.30	0.60	1.00	0.60
	1314006	Consumer 35	87.90		88.70	0.80	1.00	0.80
	221675	Consumer 36	356.70		357.40	0.70	1.00	0.70
	662819	Consumer 37	98.00		98.50	0.50	1.00	0.50
	936211	Consumer 38	432.70		433.10	0.40	1.00	0.40
	Not visible	Consumer 39	0.00	Defective meter	0.00	0.00	1.00	0.00
	2739800	Consumer 40	892.10		892.90	0.80	1.00	0.80
	548845	Consumer 41	88.00		88.70	0.70	1.00	0.70
	379750	Consumer 42	74.40		74.70	0.30	1.00	0.30
	256332	Consumer 43	655.90		656.50	0.60	1.00	0.60
	3233000	Consumer 44	219.80		220.30	0.50	1.00	0.50
	467010	Consumer 45	980.40		981.10	0.70	1.00	0.70
	3730773	Consumer 46	67.80		68.30	0.50	1.00	0.50
	5653922	Consumer 47	34.50		34.90	0.40	1.00	0.40
	38889506	Consumer 48	325.40		326.00	0.60	1.00	0.60
	4247661	Consumer 49	439.00		439.30	0.30	1.00	0.30
	4311131	Consumer 50	431.80		432.00	0.20	1.00	0.20
	11037906	Consumer 51	94.20		94.30	0.10	1.00	0.10
	5802681	Consumer 52	328.70		329.50	0.80	1.00	0.80
	4034666	Consumer 53	215.60		215.90	0.30	1.00	0.30
	3947010	Consumer 54	213.40		213.70	0.30	1.00	0.30

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	11813275	Consumer 55	291.10		291.70	0.60	1.00	0.60
	6883856	Consumer 56	326.70		327.00	0.30	1.00	0.30
	503905	Consumer 57	562.30		562.90	0.60	1.00	0.60
	724155	Consumer 58	140.60		141.10	0.50	1.00	0.50
	5116039	Consumer 59	217.80		218.40	0.60	1.00	0.60
	1090024	Consumer 60	327.60		328.00	0.40	1.00	0.40
	12731285	Consumer 61	409.80		410.00	0.20	1.00	0.20
	246421	Consumer 62	417.60		418.10	0.50	1.00	0.50
	1489861	Consumer 63	65.10		65.70	0.60	1.00	0.60
	94171663	Consumer 64	730.70		731.20	0.50	1.00	0.50
	563579	Consumer 65	708.20		709.00	0.80	1.00	0.80
	131683	Consumer 66	418.50		419.20	0.70	1.00	0.70
	1278821	Consumer 67	34.90		35.70	0.80	1.00	0.80
	157739	Consumer 68	712.30		713.10	0.80	1.00	0.80
	2523719	Consumer 69	72.90		73.50	0.60	1.00	0.60
	13400911	Consumer 70	59.80		60.60	0.80	1.00	0.80
	5297744	Consumer 71	92.30		94.00	1.70	1.00	1.70
	170000	Consumer 72	438.90		439.40	0.50	1.00	0.50
	1888401	Consumer 73	737.10		737.60	0.50	1.00	0.50
	309074	Consumer 74	495.80		496.50	0.70	1.00	0.70
	113630	Consumer 75	576.10		576.60	0.50	1.00	0.50
	267838	Consumer 76	639.00		639.30	0.30	1.00	0.30
	124132	Consumer 77	907.50		907.90	0.40	1.00	0.40
	171694	Consumer 78	98.70		99.00	0.30	1.00	0.30
	12635322	Consumer 79	512.80		513.10	0.30	1.00	0.30
	7362957	Consumer 80	33.30		33.70	0.40	1.00	0.40
	2859297	Consumer 81	45.20		45.70	0.50	1.00	0.50
	5999104	Consumer 82	684.90		685.30	0.40	1.00	0.40
	3091358	Consumer 83	411.90		412.10	0.20	1.00	0.20
	7400670	Consumer 84	783.30		783.50	0.20	1.00	0.20

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	5161658	Consumer 85	592.00	Provisional billing	592.50	0.50	1.00	0.50
	132361	Consumer 86	4301.10		4301.40	0.30	1.00	0.30
	177451	Consumer 87	638.70		639.40	0.70	1.00	0.70
	1081526	Consumer 88	69.80		70.80	1.00	1.00	1.00
	1383215	Consumer 89	34.40		35.00	0.60	1.00	0.60
	622642	Consumer 90	958.80		959.50	0.70	1.00	0.70
	538063	Consumer 91	174.50		174.80	0.30	1.00	0.30
	1620851	Consumer 92	645.70		646.10	0.40	1.00	0.40
	8637630	Consumer 93	254.00		254.40	0.40	1.00	0.40
	72251121	Consumer 94	97.90		98.30	0.40	1.00	0.40
	Total		**39594.10**		**39648.40**	**54.30**		**54.30**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
28.9.2012	2015	45511.10	45512.80	1.7	40	68	100	25%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
28.9.2012	234472	Consumer 1	872.30		872.70	0.40	1.00	0.40
	333770	Consumer 2	222.80		223.20	0.40	1.00	0.40
	525190	Consumer 3	289.00		289.90	0.90	1.00	0.90
	3880287	Consumer 4	87.10		88.00	0.90	1.00	0.90
	724448	Consumer 5	908.80		909.50	0.70	1.00	0.70
	214755	Consumer 6	45.90		46.50	0.60	1.00	0.60
	140032	Consumer 7	98.10		98.40	0.30	1.00	0.30
	6779991	Consumer 8	30.90		31.10	0.20	1.00	0.20
	3031164	Consumer 9	229.40		229.90	0.50	1.00	0.50
	1100424	Consumer 10	120.70		121.00	0.30	1.00	0.30
	421902	Consumer 11	311.90		312.10	0.20	1.00	0.20
	604388	Consumer 12	213.30		213.90	0.60	1.00	0.60
	2187345	Consumer 13	377.20		377.70	0.50	1.00	0.50
	96920	Consumer 14	225.00		226.00	1.00	1.00	1.00
	710029	Consumer 15	283.70		283.90	0.20	1.00	0.20
	352922	Consumer 16	190.10	Provisional billing	190.40	0.30	1.00	0.30
	212259	Consumer 17	883.70	Provisional billing	884.10	0.40	1.00	0.40
	344912	Consumer 18	634.10	Provisional billing	635.40	1.30	1.00	1.30
	2172070	Consumer 19	93.30		93.80	0.50	1.00	0.50
	430965	Consumer 20	71.20		71.90	0.70	1.00	0.70
	701537	Consumer 21	49.80		49.90	0.10	1.00	0.10
	198651	Consumer 22	89.30		89.90	0.60	1.00	0.60
	1033313	Consumer 23	69.00		70.10	1.10	1.00	1.10
	429682	Consumer 24	68.60	Provisional billing	69.00	0.40	1.00	0.40
	118052	Consumer 25	508.20	Provisional billing	508.70	0.50	1.00	0.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	850223	Consumer 26	739.90		740.70	0.80	1.00	0.80
	1089318	Consumer 27	278.00		278.70	0.70	1.00	0.70
	1642105	Consumer 28	126.90		127.10	0.20	1.00	0.20
	959665	Consumer 29	139.80		140.00	0.20	1.00	0.20
	147436	Consumer 30	239.80		240.20	0.40	1.00	0.40
	902469	Consumer 31	340.40		341.00	0.60	1.00	0.60
	369667	Consumer 32	879.50		879.90	0.40	1.00	0.40
	1499761	Consumer 33	391.70		392.30	0.60	1.00	0.60
	6339012	Consumer 34	38.70		39.00	0.30	1.00	0.30
	708611	Consumer 35	199.30		199.80	0.50	1.00	0.50
	6956942	Consumer 36	102.00		103.10	1.10	1.00	1.10
	1681408	Consumer 37	203.30		203.70	0.40	1.00	0.40
	523776	Consumer 38	484.40		484.90	0.50	1.00	0.50
	890901	Consumer 39	733.40		734.00	0.60	1.00	0.60
	333838	Consumer 40	384.50		384.90	0.40	1.00	0.40
	1321789	Consumer 41	311.00		311.90	0.90	1.00	0.90
	3867876	Consumer 42	48.70		49.40	0.70	1.00	0.70
	4351998	Consumer 43	50.80		51.00	0.20	1.00	0.20
	742487	Consumer 44	492.20		493.10	0.90	1.00	0.90
	153841	Consumer 45	583.70		584.50	0.80	1.00	0.80
	5262817	Consumer 46	982.30		982.90	0.60	1.00	0.60
	110566	Consumer 47	559.80		560.60	0.80	1.00	0.80
	178719	Consumer 48	666.90		667.20	0.30	1.00	0.30
	Not visible	Consumer 49	0.00	Defective meter	0.00	0.00	1.00	0.00
	354958	Consumer 50	57.90		58.50	0.60	1.00	0.60
	176944	Consumer 51	384.60		385.00	0.40	1.00	0.40
	5348837	Consumer 52	652.20		652.40	0.20	1.00	0.20
	4199347	Consumer 53	119.90		120.00	0.10	1.00	0.10
	12686741	Consumer 54	2944.80		2945.60	0.80	1.00	0.80
	29367262	Consumer 55	77.00		77.80	0.80	1.00	0.80

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	4328160	Consumer 56	826.40		826.80	0.40	1.00	0.40
	Not visible	Consumer 57	0.00	Defective meter	0.00	0.00	1.00	0.00
	6321630	Consumer 58	68.80		69.30	0.50	1.00	0.50
	9861500	Consumer 59	947.80		948.00	0.20	1.00	0.20
	662541	Consumer 60	49.80		50.80	1.00	1.00	1.00
	590887	Consumer 61	477.00		477.40	0.40	1.00	0.40
	17455956	Consumer 62	381.10		381.80	0.70	1.00	0.70
	11560068	Consumer 63	8237.80		8238.20	0.40	1.00	0.40
	9464328	Consumer 64	511.00		511.90	0.90	1.00	0.90
	9650993	Consumer 65	46.70		47.50	0.80	1.00	0.80
	421908	Consumer 66	659.00		659.90	0.90	1.00	0.90
	9624199	Consumer 67	250.90		251.10	0.20	1.00	0.20
	144524	Consumer 68	452.80		453.40	0.60	1.00	0.60
	756921	Consumer 69	764.50		765.20	0.70	1.00	0.70
	999933	Consumer 70	279.60		279.90	0.30	1.00	0.30
	4348765	Consumer 71	348.60		349.20	0.60	1.00	0.60
	12624852	Consumer 72	289.60		289.80	0.20	1.00	0.20
	105238	Consumer 73	119.00		120.00	1.00	1.00	1.00
	7569214	Consumer 74	536.00		536.70	0.70	1.00	0.70
	987488	Consumer 75	534.80		535.20	0.40	1.00	0.40
	151189	Consumer 76	628.90		629.70	0.80	1.00	0.80
	601377	Consumer 77	66.80		67.40	0.60	1.00	0.60
	112848	Consumer 78	482.30		482.70	0.40	1.00	0.40
	965490	Consumer 79	894.60		895.00	0.40	1.00	0.40
	206880	Consumer 80	2258.00		2258.30	0.30	1.00	0.30
	577930	Consumer 81	114.00		114.60	0.60	1.00	0.60
	314252	Consumer 82	396.80		397.40	0.60	1.00	0.60
	279066	Consumer 83	549.20		549.90	0.70	1.00	0.70
	997177	Consumer 84	491.20		491.70	0.50	1.00	0.50
	555049	Consumer 85	834.00		834.40	0.40	1.00	0.40

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	1148367	Consumer 86	694.20		694.90	0.70	1.00	0.70
	891176	Consumer 87	674.50		675.40	0.90	1.00	0.90
	769890	Consumer 88	91.20		91.80	0.60	1.00	0.60
	299151	Consumer 89	385.70		386.00	0.30	1.00	0.30
	541890	Consumer 90	612.90		613.10	0.20	1.00	0.20
	135399	Consumer 91	83.60		84.00	0.40	1.00	0.40
	3060600	Consumer 92	224.30		225.00	0.70	1.00	0.70
	1328601	Consumer 93	296.80		297.40	0.60	1.00	0.60
	25058256	Consumer 94	50.60		51.00	0.40	1.00	0.40
	9868399	Consumer 95	694.40		695.10	0.70	1.00	0.70
	Total		**46492.00**		**46543.10**	**51.10**		**51.10**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
1.10.2012	1768	96715.90	96717.4	1.5	40	60	100	8%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
1.10.2012	275045	Consumer 1	387.90		388.60	0.70	1.00	0.70
	837430	Consumer 2	119.30		119.90	0.60	1.00	0.60
	784381	Consumer 3	173.90		174.30	0.40	1.00	0.40
	941632	Consumer 4	99.00		99.50	0.50	1.00	0.50
	Not visible	Consumer 5	0.00	Closed	0.00	0.00	1.00	0.00
	3702334	Consumer 6	784.90		785.20	0.30	1.00	0.30
	196024	Consumer 7	348.10		348.50	0.40	1.00	0.40
	442125	Consumer 8	994.70		995.10	0.40	1.00	0.40
	556736	Consumer 9	404.90		405.20	0.30	1.00	0.30
	222236	Consumer 10	3389.20		3390.70	1.50	1.00	1.50
	797147	Consumer 11	47128.70		47129.80	1.10	1.00	1.10
	191791	Consumer 12	486.60		487.00	0.40	1.00	0.40
	388638	Consumer 13	122.90		123.10	0.20	1.00	0.20
	308245	Consumer 14	3886.40		3886.80	0.40	1.00	0.40
	307713	Consumer 15	844.00		845.50	1.50	1.00	1.50
	223270	Consumer 16	775.30		775.60	0.30	1.00	0.30
	223729	Consumer 17	284.60	Provisional billing	285.90	1.30	1.00	1.30
	224290	Consumer 18	242.10	Provisional billing	242.50	0.40	1.00	0.40
	210811	Consumer 19	475.60		476.30	0.70	1.00	0.70
	165792	Consumer 20	218.80		219.00	0.20	1.00	0.20
	503623	Consumer 21	669.60		669.90	0.30	1.00	0.30
	342239	Consumer 22	112.00		112.40	0.40	1.00	0.40
	709645	Consumer 23	131.80		132.10	0.30	1.00	0.30
	130058	Consumer 24	944.00		944.60	0.60	1.00	0.60

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	104866	Consumer 25	754.90		755.20	0.30	1.00	0.30
	240928	Consumer 26	39.40		39.80	0.40	1.00	0.40
	534827	Consumer 27	903.80		904.20	0.40	1.00	0.40
	887528	Consumer 28	237.40		237.80	0.40	1.00	0.40
	824990	Consumer 29	229.50		229.90	0.40	1.00	0.40
	114123	Consumer 30	549.10		549.90	0.80	1.00	0.80
	491456	Consumer 31	77.40		77.80	0.40	1.00	0.40
	1127889	Consumer 32	844.70		845.10	0.40	1.00	0.40
	148301	Consumer 33	3973.40		3974.00	0.60	1.00	0.60
	329876	Consumer 34	928.60		929.10	0.50	1.00	0.50
	479543	Consumer 35	489.20		489.80	0.60	1.00	0.60
	328724	Consumer 36	897.40		897.70	0.30	1.00	0.30
	244660	Consumer 37	338.10		338.40	0.30	1.00	0.30
	677472	Consumer 38	85.70		86.20	0.50	1.00	0.50
	192057	Consumer 39	309.80		310.20	0.40	1.00	0.40
	183631	Consumer 40	387.10		387.70	0.60	1.00	0.60
	774782	Consumer 41	492.20		492.80	0.60	1.00	0.60
	871730	Consumer 42	4861.10		4861.60	0.50	1.00	0.50
	338583	Consumer 43	5933.70		5933.90	0.20	1.00	0.20
	Not visible	Consumer 44	0.00	Closed	0.00	0.00	1.00	0.00
	137385	Consumer 45	297.60		297.90	0.30	1.00	0.30
	281586	Consumer 46	339.80		340.30	0.50	1.00	0.50
	295107	Consumer 47	123.90		124.40	0.50	1.00	0.50
	233018	Consumer 48	68.30		68.90	0.60	1.00	0.60
	100699	Consumer 49	37.90		38.20	0.30	1.00	0.30
	152453	Consumer 50	37.10		37.50	0.40	1.00	0.40
	Not visible	Consumer 51	0.00	Closed	0.00	0.00	1.00	0.00
	162370	Consumer 52	462.30		462.80	0.50	1.00	0.50
	261783	Consumer 53	991.20		991.90	0.70	1.00	0.70
	114340	Consumer 54	3754.50		3754.90	0.40	1.00	0.40

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	949798	Consumer 55	78.30		79.00	0.70	1.00	0.70
	497076	Consumer 56	981.20		981.70	0.50	1.00	0.50
	210215	Consumer 57	66.80		67.20	0.40	1.00	0.40
	236993	Consumer 58	469.40		469.80	0.40	1.00	0.40
	615254	Consumer 59	628.90		629.40	0.50	1.00	0.50
	142010	Consumer 60	712.40		712.90	0.50	1.00	0.50
	199233	Consumer 61	434.70		435.00	0.30	1.00	0.30
	161111	Consumer 62	711.20		711.60	0.40	1.00	0.40
	140311	Consumer 63	80.90		81.30	0.40	1.00	0.40
	247248	Consumer 64	493.30		493.90	0.60	1.00	0.60
	318810	Consumer 65	823.80		824.20	0.40	1.00	0.40
	902452	Consumer 66	597.30		597.80	0.50	1.00	0.50
	118224	Consumer 67	6109.50		6109.70	0.20	1.00	0.20
	202556	Consumer 68	73.30		74.00	0.70	1.00	0.70
	564772	Consumer 69	218.80		219.50	0.70	1.00	0.70
	257851	Consumer 70	238.10		238.50	0.40	1.00	0.40
	141006	Consumer 71	503.40		503.90	0.50	1.00	0.50
	2587567	Consumer 72	448.20		448.60	0.40	1.00	0.40
	824901	Consumer 73	769.40		769.60	0.20	1.00	0.20
	275045	Consumer 74	481.30		481.80	0.50	1.00	0.50
	837432	Consumer 75	409.80		410.50	0.70	1.00	0.70
	131591	Consumer 76	281.00		281.80	0.80	1.00	0.80
	941634	Consumer 77	2183.60		2184.30	0.70	1.00	0.70
	1145600	Consumer 78	844.50		845.20	0.70	1.00	0.70
	491079	Consumer 79	477.30		477.90	0.60	1.00	0.60
	112890	Consumer 80	46.20		46.90	0.70	1.00	0.70
	148333	Consumer 81	612.80		613.80	1.00	1.00	1.00
	3702201	Consumer 82	563.00		563.80	0.80	1.00	0.80
	196024	Consumer 83	972.80		973.10	0.30	1.00	0.30
	442120	Consumer 84	5712.90		5713.40	0.50	1.00	0.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	556730	Consumer 85	592.70		593.10	0.40	1.00	0.40
	223344	Consumer 86	338.10		338.80	0.70	1.00	0.70
	797124	Consumer 87	260.00		260.80	0.80	1.00	0.80
	191766	Consumer 88	2136.40		2137.00	0.60	1.00	0.60
	335576	Consumer 89	298.90		299.70	0.80	1.00	0.80
	322000	Consumer 90	472.30		472.90	0.60	1.00	0.60
	308245	Consumer 91	762.10		762.70	0.60	1.00	0.60
	307713	Consumer 92	47.80		48.30	0.50	1.00	0.50
	223271	Consumer 93	398.20		398.80	0.60	1.00	0.60
	210811	Consumer 94	751.20		751.70	0.50	1.00	0.50
	224290	Consumer 95	879.50		880.10	0.60	1.00	0.60
	165790	Consumer 96	664.50		665.40	0.90	1.00	0.90
	479014	Consumer 97	709.30		709.80	0.50	1.00	0.50
	503624	Consumer 98	471.20		471.60	0.40	1.00	0.40
	342239	Consumer 99	486.30		486.70	0.40	1.00	0.40
	70921	Consumer 100	958.40		958.80	0.40	1.00	0.40
	130058	Consumer 101	285.90		286.10	0.20	1.00	0.20
	104863	Consumer 102	218.90		219.40	0.50	1.00	0.50
	204093	Consumer 103	99.40		99.80	0.40	1.00	0.40
	534831	Consumer 104	79.80		80.70	0.90	1.00	0.90
	887522	Consumer 105	372.60		373.10	0.50	1.00	0.50
	328724	Consumer 106	67.40		67.70	0.30	1.00	0.30
	100010	Consumer 107	219.40		219.50	0.10	1.00	0.10
	288737	Consumer 108	342.30		342.80	0.50	1.00	0.50
	436100	Consumer 109	659.80		660.50	0.70	1.00	0.70
	Total		**131065.90**		**131121.30**	**55.40**		**55.40**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
3.10.2012	961279	98460.40	98462.7	2.3	40	92	100	25%

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
1	880081	Consumer 1	74.90		75.80	0.90	1.00	0.90
2	982795	Consumer 2	372.40		372.90	0.50	1.00	0.50
3	941123	Consumer 3	985.00		986.10	1.10	1.00	1.10
4	123345	Consumer 4	327.60		328.20	0.60	1.00	0.60
5	234456	Consumer 5	393.70		394.70	1.00	1.00	1.00
6	897510	Consumer 6	794.70		795.80	1.10	1.00	1.10
7	2358300	Consumer 7	894.60		894.90	0.30	1.00	0.30
8	9988766	Consumer 8	453.70		454.20	0.50	1.00	0.50
9	550044	Consumer 9	6632.40		6633.00	0.60	1.00	0.60
10	121415	Consumer 10	83.50		84.10	0.60	1.00	0.60
11	161718	Consumer 11	852.90		853.60	0.70	1.00	0.70
12	202123	Consumer 12	672.30		673.50	1.20	1.00	1.20
13	313233	Consumer 13	845.70		847.40	1.70	1.00	1.70
14	454647	Consumer 14	231.70		232.30	0.60	1.00	0.60
15	585960	Consumer 15	143.20		143.50	0.30	1.00	0.30
16	626364	Consumer 16	100.40		100.80	0.40	1.00	0.40
17	656667	Consumer 17	126.50		126.80	0.30	1.00	0.30
18	787472	Consumer 18	758.40		759.00	0.60	1.00	0.60
19	888990	Consumer 19	558.80		573.20	14.40	1.00	14.40
20	999900	Consumer 20	487.90		488.70	0.80	1.00	0.80
21	101293	Consumer 21	984.30		986.50	2.20	1.00	2.20
22	209456	Consumer 22	789.40		789.90	0.50	1.00	0.50
23	298374	Consumer 23	7435.60		7436.20	0.60	1.00	0.60
24	650192	Consumer 24	329.80		330.60	0.80	1.00	0.80
25	837465	Consumer 25	3125.60		3126.00	0.40	1.00	0.40

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
26	8900100	Consumer 26	98.00		98.30	0.30	1.00	0.30
27	200300	Consumer 27	76.60		76.90	0.30	1.00	0.30
28	456780	Consumer 28	654.80		655.40	0.60	1.00	0.60
29	501468	Consumer 29	451.20		451.80	0.60	1.00	0.60
30	601293	Consumer 30	8947.70		8948.20	0.50	1.00	0.50
31	4890112	Consumer 31	632.40		632.80	0.40	1.00	0.40
32	667712	Consumer 32	983.20		983.90	0.70	1.00	0.70
33	330099	Consumer 33	669.80		670.80	1.00	1.00	1.00
34	495867	Consumer 34	672.10		672.80	0.70	1.00	0.70
35	983254	Consumer 35	436.60		436.90	0.30	1.00	0.30
36	331098	Consumer 36	212.10		212.80	0.70	1.00	0.70
37	829010	Consumer 37	536.70		537.30	0.60	1.00	0.60
38	662030	Consumer 38	642.20		642.60	0.40	1.00	0.40
39	141719	Consumer 39	877.20		879.60	2.40	1.00	2.40
40	246801	Consumer 40	573.30		573.80	0.50	1.00	0.50
41	131516	Consumer 41	325.60		325.60	0.00	1.00	0.00
42	242729	Consumer 42	712.30		713.30	1.00	1.00	1.00
43	353739	Consumer 43	894.30		895.70	1.40	1.00	1.40
44	900011	Consumer 44	890.60		891.20	0.60	1.00	0.60
45	600001	Consumer 45	543.80		544.60	0.80	1.00	0.80
46	792001	Consumer 46	411.20		411.90	0.70	1.00	0.70
47	543469	Consumer 47	98.70		98.90	0.20	1.00	0.20
48	674730	Consumer 48	658.80		659.40	0.60	1.00	0.60
49	909123	Consumer 49	768.90		769.90	1.00	1.00	1.00
50	436576	Consumer 50	435.40		435.70	0.30	1.00	0.30
51	789010	Consumer 51	725.70		725.90	0.20	1.00	0.20
52	464780	Consumer 52	2146.50		2146.90	0.40	1.00	0.40
53	102030	Consumer 53	9798.50		9799.40	0.90	1.00	0.90
54	908070	Consumer 54	87.90		88.40	0.50	1.00	0.50
55	650192	Consumer 55	332.40		332.70	0.30	1.00	0.30

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
56	435363	Consumer 56	215.60		215.80	0.20	1.00	0.20
57	565760	Consumer 57	254.30		254.90	0.60	1.00	0.60
58	636576	Consumer 58	546.70		547.20	0.50	1.00	0.50
59	898280	Consumer 59	453.30		454.70	1.40	1.00	1.40
60	109012	Consumer 60	376.70		376.80	0.10	1.00	0.10
61	100123	Consumer 61	465.50		465.80	0.30	1.00	0.30
62	Not visible	Consumer 62	0.00	Closed	0.00	0.00	1.00	0.00
63	708910	Consumer 63	897.70		898.10	0.40	1.00	0.40
64	6783450	Consumer 64	224.30		224.90	0.60	1.00	0.60
65	2671900	Consumer 65	657.40		657.90	0.50	1.00	0.50
66	446789	Consumer 66	55.70		56.00	0.30	1.00	0.30
67	103366	Consumer 67	58.70		59.50	0.80	1.00	0.80
68	899012	Consumer 68	498.70		499.30	0.60	1.00	0.60
69	267980	Consumer 69	532.70		532.90	0.20	1.00	0.20
70	135791	Consumer 70	687.40		687.90	0.50	1.00	0.50
71	246802	Consumer 71	488.70		488.90	0.20	1.00	0.20
72	975310	Consumer 72	621.30		622.90	1.60	1.00	1.60
73	864208	Consumer 73	908.00		908.80	0.80	1.00	0.80
74	393031	Consumer 74	798.00		798.50	0.50	1.00	0.50
75	890123	Consumer 75	686.40		686.80	0.40	1.00	0.40
76	147036	Consumer 76	487.60		487.90	0.30	1.00	0.30
77	369258	Consumer 77	365.40		365.80	0.40	1.00	0.40
78	581470	Consumer 78	354.60		355.20	0.60	1.00	0.60
79	703690	Consumer 79	421.20		421.60	0.40	1.00	0.40
80	925814	Consumer 80	876.60		876.90	0.30	1.00	0.30
81	258147	Consumer 81	8324.40		8325.30	0.90	1.00	0.90
82	470258	Consumer 82	909.60		909.90	0.30	1.00	0.30
83	692581	Consumer 83	698.70		699.10	0.40	1.00	0.40
84	814703	Consumer 84	247.60		248.00	0.40	1.00	0.40
85	185296	Consumer 85	217.70		218.10	0.40	1.00	0.40

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
86	482604	Consumer 86	178.60		178.80	0.20	1.00	0.20
87	826048	Consumer 87	327.60		328.50	0.90	1.00	0.90
88	937159	Consumer 88	387.60		388.10	0.50	1.00	0.50
89	135937	Consumer 89	87.90		88.80	0.90	1.00	0.90
90	987068	Consumer 90	476.80		477.00	0.20	1.00	0.20
	Total		**87538.50**		**87607.70**	**69.20**		**69.20**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
3.10.2012	4814	88331.90	88333.5	1.6	40	64	100	20%

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
1	420313	Consumer 1	879.60		879.90	0.30	1.00	0.30
2	421220	Consumer 2	456.80		457.60	0.80	1.00	0.80
3	1422334	Consumer 3	762.30		762.50	0.20	1.00	0.20
4	Not visible	Consumer 4	0.00	Closed	0.00	0.00	1.00	0.00
5	7423184	Consumer 5	534.50		534.90	0.40	1.00	0.40
6	5424156	Consumer 6	980.70		981.00	0.30	1.00	0.30
7	4250144	Consumer 7	4765.30		4766.80	1.50	1.00	1.50
8	2251592	Consumer 8	121.90		122.70	0.80	1.00	0.80
9	4261661	Consumer 9	321.60		321.80	0.20	1.00	0.20
10	4271348	Consumer 10	675.60		676.30	0.70	1.00	0.70
11	2481789	Consumer 11	850.90		852.40	1.50	1.00	1.50
12	5428128	Consumer 12	395.10		395.90	0.80	1.00	0.80
13	6429121	Consumer 13	857.00		857.70	0.70	1.00	0.70
14	7430131	Consumer 14	4328.70		4329.60	0.90	1.00	0.90
15	94312299	Consumer 15	642.10		642.80	0.70	1.00	0.70
16	432279	Consumer 16	956.90		957.60	0.70	1.00	0.70
17	3433523	Consumer 17	425.60		426.20	0.60	1.00	0.60
18	2434663	Consumer 18	641.20		641.90	0.70	1.00	0.70
19	4354235	Consumer 19	442.30		442.80	0.50	1.00	0.50
20	4364830	Consumer 20	978.80		979.30	0.50	1.00	0.50
21	4371711	Consumer 21	560.00		560.60	0.60	1.00	0.60
22	4381814	Consumer 22	8983.30		8984.00	0.70	1.00	0.70
23	399171	Consumer 23	424.60		425.10	0.50	1.00	0.50
24	4391952	Consumer 24	86.70		87.50	0.80	1.00	0.80

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
25	440196	Consumer 25	459.90		461.30	1.40	1.00	1.40
26	4441121	Consumer 26	631.10		631.60	0.50	1.00	0.50
27	4431445	Consumer 27	321.10		321.60	0.50	1.00	0.50
28	448171	Consumer 28	8974.40		8974.80	0.40	1.00	0.40
29	4501531	Consumer 29	609.80		609.90	0.10	1.00	0.10
30	2452156	Consumer 30	428.80		429.50	0.70	1.00	0.70
31	1510111	Consumer 31	869.50		869.90	0.40	1.00	0.40
32	5121710	Consumer 32	534.20		534.60	0.40	1.00	0.40
33	45131811	Consumer 33	895.30		895.80	0.50	1.00	0.50
34	5142910	Consumer 34	894.50		894.90	0.40	1.00	0.40
35	6515516	Consumer 35	864.40		864.90	0.50	1.00	0.50
36	9171510	Consumer 36	908.80		909.40	0.60	1.00	0.60
37	81811	Consumer 37	313.40		314.00	0.60	1.00	0.60
38	5181491	Consumer 38	55.40		55.80	0.40	1.00	0.40
39	6191110	Consumer 39	84.30		84.70	0.40	1.00	0.40
40	6741012	Consumer 40	678.50		678.80	0.30	1.00	0.30
41	6520121	Consumer 41	34.50		34.90	0.40	1.00	0.40
42	7520191	Consumer 42	975.40		976.10	0.70	1.00	0.70
43	35478309	Consumer 43	687.20		687.80	0.60	1.00	0.60
44	7903758	Consumer 44	476.50		476.90	0.40	1.00	0.40
45	78347092	Consumer 45	378.50		379.20	0.70	1.00	0.70
46	54774	Consumer 46	97.50		98.40	0.90	1.00	0.90
47	87827792	Consumer 47	314.60		314.90	0.30	1.00	0.30
48	91245	Consumer 48	894.40		894.80	0.40	1.00	0.40
49	46725	Consumer 49	907.70		908.10	0.40	1.00	0.40
50	446789	Consumer 50	793.60		794.20	0.60	1.00	0.60
51	468935	Consumer 51	857.60		857.90	0.30	1.00	0.30
52	3227761	Consumer 52	236.50		236.80	0.30	1.00	0.30
53	212278	Consumer 53	388.70		389.30	0.60	1.00	0.60
54	11624	Consumer 54	223.10		223.90	0.80	1.00	0.80

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
55	890467	Consumer 55	231.40		231.70	0.30	1.00	0.30
56	256731	Consumer 56	547.60		547.80	0.20	1.00	0.20
57	8094768	Consumer 57	802.30		802.70	0.40	1.00	0.40
58	47689	Consumer 58	610.90		611.40	0.50	1.00	0.50
59	56327	Consumer 59	386.70		387.30	0.60	1.00	0.60
60	78569	Consumer 60	764.50		765.10	0.60	1.00	0.60
61	9052718	Consumer 61	3218.90		3219.40	0.50	1.00	0.50
62	4788036	Consumer 62	66.40		66.90	0.50	1.00	0.50
63	9974652	Consumer 63	894.40		894.80	0.40	1.00	0.40
64	337628	Consumer 64	893.20		893.70	0.50	1.00	0.50
65	212678	Consumer 65	97.00		97.80	0.80	1.00	0.80
66	87346	Consumer 66	3886.90		3887.30	0.40	1.00	0.40
67	2364190	Consumer 67	873.30		873.80	0.50	1.00	0.50
68	89467	Consumer 68	69.80		70.20	0.40	1.00	0.40
69	337619	Consumer 69	39.90		40.30	0.40	1.00	0.40
70	Not visible	Consumer 70	0.00	Closed	0.00	0.00	1.00	0.00
71	337651	Consumer 71	619.70		619.90	0.20	1.00	0.20
72	136743	Consumer 72	3228.80		3229.60	0.80	1.00	0.80
73	209389	Consumer 73	6599.70		6600.40	0.70	1.00	0.70
74	983328	Consumer 74	569.30		569.90	0.60	1.00	0.60
75	475119	Consumer 75	59.80		60.40	0.60	1.00	0.60
76	4866216	Consumer 76	905.40		905.80	0.40	1.00	0.40
77	8933641	Consumer 77	2879.50		2880.20	0.70	1.00	0.70
78	78945	Consumer 78	489.90		490.20	0.30	1.00	0.30
79	9878329	Consumer 79	7684.40		7684.90	0.50	1.00	0.50
80	5783216	Consumer 80	974.50		975.20	0.70	1.00	0.70
81	5877724	Consumer 81	390.20		390.50	0.30	1.00	0.30
82	680003	Consumer 82	213.80		214.50	0.70	1.00	0.70
83	311178	Consumer 83	232.80		233.50	0.70	1.00	0.70
84	2177832	Consumer 84	893.40		894.30	0.90	1.00	0.90

Sr. No.	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
85	554812	Consumer 85	98.00		98.70	0.70	1.00	0.70
86	66583	Consumer 86	4657.70		4658.10	0.40	1.00	0.40
87	789335	Consumer 87	428.10		428.80	0.70	1.00	0.70
88	217321	Consumer 88	488.50		488.90	0.40	1.00	0.40
89	378410	Consumer 89	7832.10		7832.10	0.00	1.00	0.00
90	987456	Consumer 90	698.70		699.40	0.70	1.00	0.70
91	47821456	Consumer 91	549.20		549.80	0.60	1.00	0.60
92	8872226	Consumer 92	487.70		488.10	0.40	1.00	0.40
93	2999123	Consumer 93	320.20		320.60	0.40	1.00	0.40
94	47321875	Consumer 94	903.20		903.90	0.70	1.00	0.70
	Total		**110448.50**		**110499.50**	**51.00**		**51.00**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
4.10.2012	RJD05495	1020.70	1027.40	6.7	40	268	100	11%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
4.10.2012	3491966	Consumer 1	43415.40		43418.20	2.80	1.00	2.80
	3468163	Consumer 2	1065.00		1069.00	4.00	1.00	4.00
	6636482	Consumer 3	1995.40		2002.30	6.90	1.00	6.90
	6764736	Consumer 4	23.40		26.80	3.40	1.00	3.40
	5864488	Consumer 5	17728.00		17725.00	-3.00	1.00	-3.00
	5810774	Consumer 6	9306.00		9312.00	6.00	1.00	6.00
	677976	Consumer 7	8398.00		8402.00	4.00	1.00	4.00
	677977	Consumer 8	3363.00		3367.00	4.00	1.00	4.00
	18283213	Consumer 9	318.00		325.00	7.00	1.00	7.00
	9197957	Consumer 10	0.00	Defective meter	0.00	0.00	1.00	0.00
	128305	Consumer 11	2389.80		2396.50	6.70	1.00	6.70
	9683579	Consumer 12	471.00		475.00	4.00	1.00	4.00
	17890150	Consumer 13	4517.00		4525.00	8.00	1.00	8.00
	9197977	Consumer 14	8802.00		8807.00	5.00	1.00	5.00
	709919	Consumer 15	5136.60		5139.40	2.80	1.00	2.80
	Not visible	Consumer 16	0.00	Closed	0.00	0.00	1.00	0.00
	764578	Consumer 17	883.00		885.00	2.00	1.00	2.00
	705823	Consumer 18	3509.80		3514.50	4.70	1.00	4.70
	481691	Consumer 19	50385.00		50389.00	4.00	1.00	4.00
	3468715	Consumer 20	9176.80		9179.80	3.00	1.00	3.00
	3874103	Consumer 21	7711.60		7714.80	3.20	1.00	3.20
	707177	Consumer 22	3890.40		3895.40	5.00	1.00	5.00
	677980	Consumer 23	523.70		526.40	2.70	1.00	2.70
	7362128	Consumer 24	20.60		23.40	2.80	1.00	2.80

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	968358	Consumer 25	3199.00		3205.00	6.00	1.00	6.00
	483243	Consumer 26	3294.00		3296.00	2.00	1.00	2.00
	9778798	Consumer 27	1390.00		1395.00	5.00	1.00	5.00
	7338109	Consumer 28	38.50		42.60	4.10	1.00	4.10
	5154582	Consumer 29	9950.00		9954.00	4.00	1.00	4.00
	9421384	Consumer 30	0.00	Defective meter	0.00	0.00	1.00	0.00
	5812762	Consumer 31	7897.00		7903.00	6.00	1.00	6.00
	2458702	Consumer 32	13033.50		13038.20	4.70	1.00	4.70
	2797580	Consumer 33	16859.90		16861.40	1.50	1.00	1.50
	850634	Consumer 34	3403.80		3406.40	2.60	1.00	2.60
	5863117	Consumer 35	8030.00		8035.00	5.00	1.00	5.00
	668649	Consumer 36	914.30		918.40	4.10	1.00	4.10
	17888609	Consumer 37	532.00		536.00	4.00	1.00	4.00
	locked	Consumer 38	0.00	Closed	0.00	0.00	1.00	0.00
	775183	Consumer 39	2980.90		2983.40	2.50	1.00	2.50
	17038294	Consumer 40	1847.20		1852.40	5.20	1.00	5.20
	128939	Consumer 41	13523.40		13528.40	5.00	1.00	5.00
	3084997	Consumer 42	7656.80		7659.40	2.60	1.00	2.60
	5295924	Consumer 43	2300.00		2305.00	5.00	1.00	5.00
	589866	Consumer 44	8716.00		8719.00	3.00	1.00	3.00
	589288	Consumer 45	291.40		294.50	3.10	1.00	3.10
	locked	Consumer 46	0.00	Closed	0.00	0.00	1.00	0.00
	5947853	Consumer 47	0.00	Defective meter	0.00	0.00	1.00	0.00
	18255469	Consumer 48	278.70		283.40	4.70	1.00	4.70
	7362420	Consumer 49	27.60		29.40	1.80	1.00	1.80
	2121-00474	Consumer 50	18543.90		18548.40	4.50	1.00	4.50
	1829534	Consumer 51	19030.70		19035.00	4.30	1.00	4.30
	9199850	Consumer 52	6753.00		6757.00	4.00	1.00	4.00
	4915306	Consumer 53	18539.40		18541.80	2.40	1.00	2.40
	5297570	Consumer 54	118314.20		118322.50	8.30	1.00	8.30

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	677984	Consumer 55	6870.00		6873.00	3.00	1.00	3.00
	415504	Consumer 56	9777.00		9781.40	4.40	1.00	4.40
	1827789	Consumer 57	13813.40		13820.50	7.10	1.00	7.10
	8459114	Consumer 58	3932.40		3933.80	1.40	1.00	1.40
	locked	Consumer 59	0.00	locked	0.00	0.00	1.00	0.00
	9416373	Consumer 60	0.00	Defective meter	0.00	0.00	1.00	0.00
	9779201	Consumer 61	1711.30		1714.40	3.10	1.00	3.10
	4916405	Consumer 62	8160.00		8163.00	3.00	1.00	3.00
	584133	Consumer 63	3320.50		3323.40	2.90	1.00	2.90
	5864482	Consumer 64	6125.00		6128.00	3.00	1.00	3.00
	590309	Consumer 65	2521.20		2524.00	2.80	1.00	2.80
	6755895	Consumer 66	145.80		152.40	6.60	1.00	6.60
	1054803	Consumer 67	15703.40		15708.20	4.80	1.00	4.80
	9779905	Consumer 68	232.00		235.00	3.00	1.00	3.00
	Total		**542686.70**		**542926.20**	**239.50**		**239.50**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
5.10.2012	RJD05627	1284.30	1291.2	6.9	40	276	100	18%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
5.10.2012	17890005	Consumer 1	950.20		953.70	3.50	1.00	3.50
	7325823	Consumer 2	48.00		51.00	3.00	1.00	3.00
	91050714	Consumer 3	13339.00		13342.00	3.00	1.00	3.00
	7337019	Consumer 4	19.00		23.00	4.00	1.00	4.00
	585895	Consumer 5	1789.00		1792.00	3.00	1.00	3.00
	6636836	Consumer 6	1072.00		1075.00	3.00	1.00	3.00
	18281373	Consumer 7	330.00		333.00	3.00	1.00	3.00
	588213	Consumer 8	2112.00		2115.00	3.00	1.00	3.00
	7337020	Consumer 9	68.00		73.00	5.00	1.00	5.00
	327764	Consumer 10	1210.00		1215.00	5.00	1.00	5.00
	8480888	Consumer 11	9202.00		9205.00	3.00	1.00	3.00
	537515	Consumer 12	3082.00		3085.00	3.00	1.00	3.00
	677982	Consumer 13	3852.00		3856.00	4.00	1.00	4.00
	5814512	Consumer 14	9944.00		9948.00	4.00	1.00	4.00
	713012	Consumer 15	0.00	Defective meter	0.00	0.00	1.00	0.00
	1313284	Consumer 16	694.00		699.00	5.00	1.00	5.00
	160218	Consumer 17	1682.00		1688.00	6.00	1.00	6.00
	7320261	Consumer 18	320.00		326.00	6.00	1.00	6.00
	587218	Consumer 19	1730.00		1736.00	6.00	1.00	6.00
	8280179	Consumer 20	635.00		640.00	5.00	1.00	5.00
	181886	Consumer 21	18020.00		18024.00	4.00	1.00	4.00
	2798516	Consumer 22	8539.00		8543.00	4.00	1.00	4.00
	482004	Consumer 23	1782.00		1785.00	3.00	1.00	3.00
	176705	Consumer 24	4186.00		4192.00	6.00	1.00	6.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	589873	Consumer 25	2485.00		2488.00	3.00	1.00	3.00
	1789235	Consumer 26	2779.00		2783.00	4.00	1.00	4.00
	590302	Consumer 27	3097.00		3100.00	3.00	1.00	3.00
	6754903	Consumer 28	12.00		14.00	2.00	1.00	2.00
	888179	Consumer 29	9470.00		9471.40	1.40	1.00	1.40
	881071	Consumer 30	1879.00		1885.00	6.00	1.00	6.00
	668523	Consumer 31	37.00		37.00	0.00	1.00	0.00
	160215	Consumer 32	7813.50		7818.40	4.90	1.00	4.90
	67613	Consumer 33	1012.00		1017.00	5.00	1.00	5.00
	5743432	Consumer 34	1590.00		1594.00	4.00	1.00	4.00
	1827480	Consumer 35	2302.00		2305.00	3.00	1.00	3.00
	6689198	Consumer 36	680.00		684.30	4.30	1.00	4.30
	9810800	Consumer 37	2373.00		2379.00	6.00	1.00	6.00
	9682546	Consumer 38	2880.00		2884.00	4.00	1.00	4.00
	589279	Consumer 39	4126.00		4127.00	1.00	1.00	1.00
	2152589	Consumer 40	9249.00		9253.00	4.00	1.00	4.00
	7326589	Consumer 41	9862.00		9866.00	4.00	1.00	4.00
	7326584	Consumer 42	44.00		47.40	3.40	1.00	3.40
	858697	Consumer 43	1999.50		2003.40	3.90	1.00	3.90
	17892562	Consumer 44	591.80		593.70	1.90	1.00	1.90
	9686694	Consumer 45	0.00	Defective meter	0.00	0.00	1.00	0.00
	58125681	Consumer 46	1289.00		1292.00	3.00	1.00	3.00
	618267	Consumer 47	0.00	Defective meter	0.00	0.00	1.00	0.00
	9682077	Consumer 48	2198.00		2201.00	3.00	1.00	3.00
	748313	Consumer 49	1203.00		1206.00	3.00	1.00	3.00
	5812570	Consumer 50	4372.00		4376.00	4.00	1.00	4.00
	438354	Consumer 51	2997.00		2999.40	2.40	1.00	2.40
	318428	Consumer 52	7621.00		7626.00	5.00	1.00	5.00
	18255792	Consumer 53	11747.30		11749.80	2.50	1.00	2.50
	9686197	Consumer 54	0.00	Defective meter	0.00	0.00	1.00	0.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	1325148	Consumer 55	6458.00		6462.50	4.50	1.00	4.50
	7357014	Consumer 56	94.00		102.40	8.40	1.00	8.40
	617801	Consumer 57	6322.00		6328.00	6.00	1.00	6.00
	168671	Consumer 58	5312.00		5316.00	4.00	1.00	4.00
	274884	Consumer 59	1884.00		1887.00	3.00	1.00	3.00
	7337188	Consumer 60	41.00		43.00	2.00	1.00	2.00
	96813153	Consumer 61	1350.00		1358.00	8.00	1.00	8.00
	BM1006576	Consumer 62	18805.00		18808.00	3.00	1.00	3.00
	Total		**220580.30**		**220805.40**	**225.10**		**225.10**

Date	Meter No.	1st read	2nd read	Difference	MF	Consumption	DT Capacity (kVA)	Losses
8.10.2012	RJD05627	1286	1291.2	5.2	40	208	100	10.53%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
8.10.2012	18257154		1691.00		1697.00	6.00	1.00	6.00
	5568981		1738.00		1742.00	4.00	1.00	4.00
	5568789		2688.00		2694.00	6.00	1.00	6.00
	6688212		682.50		686.60	4.10	1.00	4.10
	5568969		3898.40		3902.30	3.90	1.00	3.90
	17890170		431.20		438.10	6.90	1.00	6.90
	415670		3682.00		3687.00	5.00	1.00	5.00
	5568979		2356.00		2362.00	6.00	1.00	6.00
	5568989		1287.00		1292.00	5.00	1.00	5.00
	5578928		1832.60		1836.40	3.80	1.00	3.80
	9684343		2206.40		2209.50	3.10	1.00	3.10
	9812342		2712.00		2718.00	6.00	1.00	6.00
	8838231		5491.00		5498.00	7.00	1.00	7.00
	18279188		159.00		165.00	6.00	1.00	6.00
	414552		0.00	Defective meter	0.00	0.00	1.00	0.00
	906286		11066.00		11068.00	2.00	1.00	2.00
	5743009		16248.00		16252.00	4.00	1.00	4.00
	9190783		4144.20		4148.60	4.40	1.00	4.40
	275075		2813.00		2816.00	3.00	1.00	3.00
	18256851		148.30		152.00	3.70	1.00	3.70
	17893491		818.00		821.00	3.00	1.00	3.00
	715396		1786.80		1790.70	3.90	1.00	3.90
	6685161		753.00		756.00	3.00	1.00	3.00
	675229		1432.00		1435.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	BM00567		6782.00		6785.00	3.00	1.00	3.00
	705821		1303.60		1308.80	5.20	1.00	5.20
	706126		48.00		52.00	4.00	1.00	4.00
	8458262		1792.00		1795.00	3.00	1.00	3.00
	2283138		61512.00		61528.00	16.00	1.00	16.00
	7325049		356.30		358.30	2.00	1.00	2.00
	8881269		15889.00		15892.00	3.00	1.00	3.00
	18279776		256.00		258.00	2.00	1.00	2.00
	18255815		803.00		805.00	2.00	1.00	2.00
	716311		1637.40		1639.60	2.20	1.00	2.20
	6766910		67.00		71.00	4.00	1.00	4.00
	6962912		188.00		189.00	1.00	1.00	1.00
	6952967		798.00		798.00	0.00	1.00	0.00
	18252817		1322.00		1325.00	3.00	1.00	3.00
	18252819		1726.00		1728.00	2.00	1.00	2.00
	58185687		652.00		655.00	3.00	1.00	3.00
	58128672		1088.00		1092.00	4.00	1.00	4.00
	58125756		971.60		973.50	1.90	1.00	1.90
	2152591		870.00		873.00	3.00	1.00	3.00
	745364		2792.00		2796.00	4.00	1.00	4.00
	5812571		1382.00		1391.00	9.00	1.00	9.00
	318429		1509.00		1515.00	6.00	1.00	6.00
	Total		**173809.30**		**173995.40**	**186.10**		**186.10**

3.3 LT survey – Churu

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
22.9.2012	RJD05482	1073.4	1080.6	7.2	100	40	288	15.07%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
22.9.2012	504601	Consumer 1	2038.60		2042.50	3.90	1.00	3.90
	1057874	Consumer 2	3247.30		3253.50	6.20	1.00	6.20
	584132	Consumer 3	978.20		981.80	3.60	1.00	3.60
	5810752	Consumer 4	0.00	Defective meter	0.00	0.00	1.00	0.00
	2458692	Consumer 5	8528.40		8531.50	3.10	1.00	3.10
	1346259	Consumer 6	34306.90		34309.20	2.30	1.00	2.30
	1054342	Consumer 7	21676.20		21678.80	2.60	1.00	2.60
	775697	Consumer 8	2523.50		2528.50	5.00	1.00	5.00
	5810759	Consumer 9	3628.50		3632.40	3.90	1.00	3.90
	8066468	Consumer 10	0.00	Defective meter	0.00	0.00	1.00	0.00
	3469134	Consumer 11	5250.70		5254.50	3.80	1.00	3.80
	6689475	Consumer 12	8187.00		8191.00	4.00	1.00	4.00
	5810777	Consumer 13	2111.00		2114.00	3.00	1.00	3.00
	5810767	Consumer 14	3227.00		3232.00	5.00	1.00	5.00
	582691	Consumer 15	0.00	Defective meter	0.00	0.00	1.00	0.00
	5744839	Consumer 16	11008.00		11011.00	3.00	1.00	3.00
	Locked	Consumer 17	0.00	Locked	0.00	0.00	1.00	0.00
	Locked	Consumer 18	0.00	Locked	0.00	0.00	1.00	0.00
	166107	Consumer 19	0.00	Meter Gate Locked	0.00	0.00	1.00	0.00
	5810780	Consumer 20	7509.00		7514.00	5.00	1.00	5.00
	1006865	Consumer 21	9496.40		9499.50	3.10	1.00	3.10
	5744614	Consumer 22	5095.50		5098.30	2.80	1.00	2.80
	5863629	Consumer 23	0.00	Defective meter	0.00	0.00	1.00	0.00
	5568758	Consumer 24	5568.00		5572.00	4.00	1.00	4.00
	9684063	Consumer 25	2808.00		2811.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	Locked	Consumer 26		Locked	0.00	0.00	1.00	0.00
	706075	Consumer 27	2189.00		2195.70	6.70	1.00	6.70
	9686122	Consumer 28	0.00	Defective meter	0.00	0.00	1.00	0.00
	5810764	Consumer 29	4453.40		4458.20	4.80	1.00	4.80
	1007409	Consumer 30	5466.90		5469.40	2.50	1.00	2.50
	7267509	Consumer 31	796.50		799.40	2.90	1.00	2.90
	6685334	Consumer 32	2924.30		2928.60	4.30	1.00	4.30
	705840	Consumer 33	109.40		113.50	4.10	1.00	4.10
	59680	Consumer 34	11517.40		11521.60	4.20	1.00	4.20
	1005154	Consumer 35	5563.60		5568.40	4.80	1.00	4.80
	5810768	Consumer 36	10402.40		10406.30	3.90	1.00	3.90
	513005	Consumer 37	13279.50		13283.60	4.10	1.00	4.10
	168804	Consumer 38	0.00	Defective meter	0.00	0.00	1.00	0.00
	677579	Consumer 39	8335.60		8338.40	2.80	1.00	2.80
	58107651	Consumer 40	6830.40		6838.40	8.00	1.00	8.00
	2797938	Consumer 41	4803.70		4806.40	2.70	1.00	2.70
	Locked	Consumer 42	0.00	Locked	0.00	0.00	1.00	0.00
	5810766	Consumer 43	5889.20		5892.30	3.10	1.00	3.10
	18254850	Consumer 44	4868.00		4872.00	4.00	1.00	4.00
	5948742	Consumer 45	5361.30		5364.40	3.10	1.00	3.10
	5185070	Consumer 46	6179.00		6182.00	3.00	1.00	3.00
	5154437	Consumer 47	51.00		53.00	2.00	1.00	2.00
	Locked	Consumer 48	0.00	Locked	0.00	0.00	1.00	0.00
	9183835	Consumer 49	0.00	Defective meter	0.00	0.00	1.00	0.00
	101-191 STP	Consumer 50	85798.50		85801.30	2.80	1.00	2.80
	5154106	Consumer 51	7195.30		7198.40	3.10	1.00	3.10
	1057256	Consumer 52	15644.40		15648.20	3.80	1.00	3.80
	Locked	Consumer 53	0.00	Locked	0.00	0.00	1.00	0.00
	5710908	Consumer 54	12141.40		12145.60	4.20	1.00	4.20
	132969	Consumer 55	11406.90		11408.80	1.90	1.00	1.90
	5154112	Consumer 56	5410.30		5413.40	3.10	1.00	3.10

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	5154398	Consumer 57	630.40		633.20	2.80	1.00	2.80
	17893321	Consumer 58	8739.00		8742.00	3.00	1.00	3.00
	640940	Consumer 59	29676.80		29679.40	2.60	1.00	2.60
	7269741	Consumer 60	7269.80		7273.40	3.60	1.00	3.60
	160751	Consumer 61	1607.10		1609.40	2.30	1.00	2.30
	566295	Consumer 62	8740.90		8743.40	2.50	1.00	2.50
	1829979	Consumer 63	392.20		396.40	4.20	1.00	4.20
	842148	Consumer 64	8005.40		8009.60	4.20	1.00	4.20
	5871805	Consumer 65	5531.00		5534.00	3.00	1.00	3.00
	9682538	Consumer 66	991.00		995.00	4.00	1.00	4.00
	LUM1007739	Consumer 67	21969.40		21973.50	4.10	1.00	4.10
	1007968	Consumer 68	20025.90		20028.40	2.50	1.00	2.50
	5870604	Consumer 69	3186.80		3189.40	2.60	1.00	2.60
	775553	Consumer 70	2252.40		2256.80	4.40	1.00	4.40
	60882	Consumer 71	14584.20		14588.40	4.20	1.00	4.20
	5710915	Consumer 72	6600.00		6603.00	3.00	1.00	3.00
	3133158	Consumer 73	17040.40		17042.50	2.10	1.00	2.10
	10045049	Consumer 74	8630.80		8633.40	2.60	1.00	2.60
	1006568	Consumer 75	10527.50		10529.40	1.90	1.00	1.90
	9716712	Consumer 76	57107.40		57109.20	1.80	1.00	1.80
	9713476	Consumer 77	16717.40		16720.40	3.00	1.00	3.00
	909558	Consumer 78	14970.50		14973.40	2.90	1.00	2.90
	5948710	Consumer 79	10303.00		10306.00	3.00	1.00	3.00
	5871816	Consumer 80	7056.30		7059.40	3.10	1.00	3.10
	604651	Consumer 81	11988.00		11992.00	4.00	1.00	4.00
	5949192	Consumer 82	11287.00		11290.00	3.00	1.00	3.00
	775539	Consumer 83	3354.00		3358.00	4.00	1.00	4.00
	5813622	Consumer 84	0.00	Defective meter	0.00	0.00	1.00	0.00
	284789	Consumer 85	2229.40		2232.40	3.00	1.00	3.00
	Total		**685219.60**		**685464.20**	**244.60**		**244.60**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
25.9.2012	RJD05583	3896.00	3904.00	8.00	100.00	40	320.00	16.44%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
25.9.2012	718210	Consumer 1	2411.50		2412.20	0.70	1.00	0.70
	677064	Consumer 2	3689.40		3690.20	0.80	1.00	0.80
	717870	Consumer 3	5362.80		5363.40	0.60	1.00	0.60
	675459	Consumer 4	0.00	Defective meter	0.00	0.00	1.00	0.00
	6764188	Consumer 5	79.40		83.50	4.10	1.00	4.10
	5079519	Consumer 6	4584.60		4589.30	4.70	1.00	4.70
	Locked	Consumer 7	0.00	Locked	0.00	0.00	1.00	0.00
	9780519	Consumer 8	998.60		1003.40	4.80	1.00	4.80
	781226	Consumer 9	845.00		848.00	3.00	1.00	3.00
	9778868	Consumer 10	725.00		728.00	3.00	1.00	3.00
	17890928	Consumer 11	1094.60		1098.40	3.80	1.00	3.80
	6768797	Consumer 12	205.00		208.00	3.00	1.00	3.00
	587217	Consumer 13	3656.40		3658.80	2.40	1.00	2.40
	740661	Consumer 14	579.10		583.40	4.30	1.00	4.30
	483533	Consumer 15	1317.10		1319.80	2.70	1.00	2.70
	5743182	Consumer 16	2075.50		2078.40	2.90	1.00	2.90
	5862638	Consumer 17	8798.10		8802.50	4.40	1.00	4.40
	968821	Consumer 18	2578.30		2581.40	3.10	1.00	3.10
	5713656	Consumer 19	3543.90		3548.40	4.50	1.00	4.50
	5949344	Consumer 20	2283.30		2286.40	3.10	1.00	3.10
	712056	Consumer 21	2558.30		2563.40	5.10	1.00	5.10
	5742835	Consumer 22	5862.60		5866.40	3.80	1.00	3.80
	707536	Consumer 23	0.00	Defective meter	0.00	0.00	1.00	0.00
	764043	Consumer 24	1850.50		1856.40	5.90	1.00	5.90
	358618	Consumer 25	1886.30		1889.40	3.10	1.00	3.10

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	781173	Consumer 26	1591.80		1596.40	4.60	1.00	4.60
	618010	Consumer 27	2303.30		2306.40	3.10	1.00	3.10
	9198910	Consumer 28	3205.90		3208.40	2.50	1.00	2.50
	6689762	Consumer 29	2832.10		2836.50	4.40	1.00	4.40
	9778828	Consumer 30	1312.80		1316.40	3.60	1.00	3.60
	TN-1667	Consumer 31	10368.50		10372.40	3.90	1.00	3.90
	357354	Consumer 32	9318.10		9321.40	3.30	1.00	3.30
	6685592	Consumer 33	595.20		598.40	3.20	1.00	3.20
	717070	Consumer 34	2119.90		2123.40	3.50	1.00	3.50
	1825272	Consumer 35	7333.80		7336.40	2.60	1.00	2.60
	5743280	Consumer 36	6176.40		6179.80	3.40	1.00	3.40
	9625415	Consumer 37	7729.00		7733.00	4.00	1.00	4.00
	5863365	Consumer 38	5325.60		5329.40	3.80	1.00	3.80
	17035812	Consumer 39	218.00		223.00	5.00	1.00	5.00
	9198909	Consumer 40	0.00	Defective meter	0.00	0.00	1.00	0.00
	358620	Consumer 41	2202.20		2208.40	6.20	1.00	6.20
	7266997	Consumer 42	1394.90		1398.40	3.50	1.00	3.50
	3065506	Consumer 43	4792.00		4798.00	6.00	1.00	6.00
	6756263	Consumer 44	738.30		742.80	4.50	1.00	4.50
	858153	Consumer 45	2431.80		2436.90	5.10	1.00	5.10
	482016	Consumer 46	8353.70		8356.40	2.70	1.00	2.70
	676076	Consumer 47	1340.80		1343.40	2.60	1.00	2.60
	158685	Consumer 48	4699.80		4705.40	5.60	1.00	5.60
	18255004	Consumer 49	963.20		968.90	5.70	1.00	5.70
	CML9217070	Consumer 50	1670.80		1675.40	4.60	1.00	4.60
	8341783	Consumer 51	7795.80		7799.20	3.40	1.00	3.40
	8346783	Consumer 52	1793.70		1796.40	2.70	1.00	2.70
	9217070	Consumer 53	1472.60		1476.60	4.00	1.00	4.00
	705626	Consumer 54	9512.70		9516.40	3.70	1.00	3.70
	17893324	Consumer 55	1562.80		1566.40	3.60	1.00	3.60
	9803988	Consumer 56	2772.60		2778.20	5.60	1.00	5.60

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	9671729	Consumer 57	1274.50		1278.80	4.30	1.00	4.30
	7546323	Consumer 58	1572.60		1577.50	4.90	1.00	4.90
	675460	Consumer 59	1089.60		1093.30	3.70	1.00	3.70
	18252425	Consumer 60	494.20		498.80	4.60	1.00	4.60
	285589	Consumer 61	1649.80		1653.40	3.60	1.00	3.60
	18255684	Consumer 62	663.70		669.60	5.90	1.00	5.90
	17038593	Consumer 63	984.80		989.40	4.60	1.00	4.60
	6637330	Consumer 64	196.40		201.60	5.20	1.00	5.20
	858696	Consumer 65	2016.20		2019.50	3.30	1.00	3.30
	9217070	Consumer 66	1795.80		1798.70	2.90	1.00	2.90
	618002	Consumer 67	1970.20		1975.30	5.10	1.00	5.10
	17890171	Consumer 68	1143.30		1147.30	4.00	1.00	4.00
	9771797	Consumer 69	1543.30		1545.70	2.40	1.00	2.40
	709227	Consumer 70	4167.80		4172.50	4.70	1.00	4.70
	6754973	Consumer 71	1473.20		1476.50	3.30	1.00	3.30
	768724	Consumer 72	3234.60		3238.60	4.00	1.00	4.00
	7326264	Consumer 73	8230.80		8234.70	3.90	1.00	3.90
	857416	Consumer 74	1055.70		1058.50	2.80	1.00	2.80
	Total		**205469.90**		**205737.30**	**267.40**		**267.40**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
26.9.2012	RJD05472	1589.80	1592.20	2.40	100.00	40	96.00	10.21%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
26.9.2012	3133115	Consumer 1	3906.90		3910.60	3.70	1.00	3.70
	9778337	Consumer 2	1312.40		1318.80	6.40	1.00	6.40
	18281430	Consumer 3	301.20		307.50	6.30	1.00	6.30
	8066240	Consumer 4	1248.00		1251.00	3.00	1.00	3.00
	674225	Consumer 5	1823.40		1826.50	3.10	1.00	3.10
	3065478	Consumer 6	6183.20		6187.40	4.20	1.00	4.20
	5947711	Consumer 7	1922.60		1928.40	5.80	1.00	5.80
	6636144	Consumer 8	133.00		138.00	5.00	1.00	5.00
	5744603	Consumer 9	6137.90		6143.20	5.30	1.00	5.30
	7337783	Consumer 10	19.00		23.00	4.00	1.00	4.00
	4986229	Consumer 11	7128.80		7132.40	3.60	1.00	3.60
	4922787	Consumer 12	12654.80		12658.40	3.60	1.00	3.60
	3084260	Consumer 13	7476.80		7479.30	2.50	1.00	2.50
	4922931	Consumer 14	15880.30		15885.90	5.60	1.00	5.60
	934900	Consumer 15	24881.30		24883.40	2.10	1.00	2.10
	Locked	Consumer 16	0.00	Locked	0.00	0.00	1.00	0.00
	5949243	Consumer 17	4122.00		4125.00	3.00	1.00	3.00
	3469750	Consumer 18	4643.50		4648.20	4.70	1.00	4.70
	504583	Consumer 19	5227.00		5230.40	3.40	1.00	3.40
	Locked	Consumer 20	0.00	Locked	0.00	0.00	1.00	0.00
	Locked	Consumer 21	0.00	Locked	0.00	0.00	1.00	0.00
	3084118	Consumer 22	2864.80		2871.70	6.90	1.00	6.90
	9197962	Consumer 23	2190.00		2194.00	4.00	1.00	4.00
	Total		**110056.90**		**110143.10**	**86.20**		**86.20**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
27.9.2012	RJD05517	5490.00	5496.40	6.40	100.00	40	256.00	16.72%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
27.9.2012	764751	Consumer 1	1060.50		1063.20	2.70	1.00	2.70
	10154415	Consumer 2	10213.00		10215.00	2.00	1.00	2.00
	10474312	Consumer 3	7436.00		7439.00	3.00	1.00	3.00
	5238063	Consumer 4	14227.40		14230.40	3.00	1.00	3.00
	5338071	Consumer 5	1847.60		1849.80	2.20	1.00	2.20
	5438910	Consumer 6	0.00	Defective meter	0.00	0.00	1.00	0.00
	5811049	Consumer 7	9792.70		9796.30	3.60	1.00	3.60
	10154418	Consumer 8	3857.40		3861.20	3.80	1.00	3.80
	5948712	Consumer 9	6407.00		6409.00	2.00	1.00	2.00
	1788899	Consumer 10	820.80		824.70	3.90	1.00	3.90
	58133317	Consumer 11	7976.60		7979.80	3.20	1.00	3.20
	677538	Consumer 12	1504.20		1508.30	4.10	1.00	4.10
	5569887	Consumer 13	1924.60		1928.30	3.70	1.00	3.70
	6764152	Consumer 14	201.80		207.30	5.50	1.00	5.50
	17267499	Consumer 15	1906.00		1909.00	3.00	1.00	3.00
	17893084	Consumer 16	1673.80		1678.40	4.60	1.00	4.60
	58133981	Consumer 17	1438.50		1440.60	2.10	1.00	2.10
	781172	Consumer 18	1415.00		1419.00	4.00	1.00	4.00
	17893327	Consumer 19	822.70		828.80	6.10	1.00	6.10
	7326589	Consumer 20	155.00		159.00	4.00	1.00	4.00
	9684144	Consumer 21	2039.00		2045.00	6.00	1.00	6.00
	5814330	Consumer 22	10872.00		10876.00	4.00	1.00	4.00
	5813188	Consumer 23	0.00	Defective meter	0.00	0.00	1.00	0.00
	7211985	Consumer 24	570.40		575.30	4.90	1.00	4.90

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	484346	Consumer 25	2848.00		2853.00	5.00	1.00	5.00
	483400	Consumer 26	4834.00		4838.00	4.00	1.00	4.00
	5949880	Consumer 27	5240.80		5245.30	4.50	1.00	4.50
	5813388	Consumer 28	7840.30		7845.50	5.20	1.00	5.20
	7326406	Consumer 29	159.80		163.60	3.80	1.00	3.80
	7321471	Consumer 30	301.00		304.00	3.00	1.00	3.00
	5813332	Consumer 31	1354.60		1358.50	3.90	1.00	3.90
	6768796	Consumer 32	125.70		128.40	2.70	1.00	2.70
	7170367	Consumer 33	582.60		588.40	5.80	1.00	5.80
	5813127	Consumer 34	7243.30		7248.40	5.10	1.00	5.10
	205046	Consumer 35	1874.70		1878.40	3.70	1.00	3.70
	586150	Consumer 36	7052.90		7058.30	5.40	1.00	5.40
	7362349	Consumer 37	143.40		148.30	4.90	1.00	4.90
	781371	Consumer 38	1806.80		1809.30	2.50	1.00	2.50
	6685096	Consumer 39	1922.00		1927.00	5.00	1.00	5.00
	5813132	Consumer 40	1319.50		1324.30	4.80	1.00	4.80
	503721	Consumer 41	7129.00		7134.00	5.00	1.00	5.00
	5747625	Consumer 42	4762.60		4766.80	4.20	1.00	4.20
	5843777	Consumer 43	6843.20		6845.40	2.20	1.00	2.20
	1055659	Consumer 44	11641.20		11648.50	7.30	1.00	7.30
	5947875	Consumer 45	3758.00		3762.00	4.00	1.00	4.00
	180065	Consumer 46	7108.20		7110.40	2.20	1.00	2.20
	17889168	Consumer 47	786.40		789.50	3.10	1.00	3.10
	6688748	Consumer 48	1054.00		1058.00	4.00	1.00	4.00
	5838249	Consumer 49	9208.40		9210.50	2.10	1.00	2.10
	5001468	Consumer 50	14867.40		14870.50	3.10	1.00	3.10
	541131	Consumer 51	9838.80		9842.50	3.70	1.00	3.70
	Locked	Consumer 52	0.00		0.00	0.00	1.00	0.00
	3436613	Consumer 53	14678.00		14681.50	3.50	1.00	3.50
	Locked	Consumer 54	0.00	Locked	0.00	0.00	1.00	0.00
	17889167	Consumer 55	2073.40		2073.40	0.00	1.00	0.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	1053371	Consumer 56	12780.80		12783.40	2.60	1.00	2.60
	9198903	Consumer 57	0.00	Defective meter	0.00	0.00	1.00	0.00
	675885	Consumer 58	2459.00		2462.00	3.00	1.00	3.00
	6689807	Consumer 59	826.90		828.40	1.50	1.00	1.50
	618151	Consumer 60	3332.00		3338.00	6.00	1.00	6.00
	618345	Consumer 61	1213.00		1218.00	5.00	1.00	5.00
	Total		**247171.70**		**247384.90**	**213.20**		**213.20**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
28.9.2012	RJD05461	2661.50	2672.40	10.90	100.00	40	436.00	20.69%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
28.9.2012	604461	Consumer 1	36832.00		36835.00	3.00	1.00	3.00
	5813378	Consumer 2	3384.20		3386.20	2.00	1.00	2.00
	617794	Consumer 3	0.00	Defective meter	0.00	0.00	1.00	0.00
	617799	Consumer 4	1675.00		1679.40	4.40	1.00	4.40
	5010288	Consumer 5	0.00	Defective meter	0.00	0.00	1.00	0.00
	17893083	Consumer 6	1007.80		1011.20	3.40	1.00	3.40
	5744815	Consumer 7	3927.50		3932.50	5.00	1.00	5.00
	5008186	Consumer 8	0.00	Defective meter	0.00	0.00	1.00	0.00
	5744818	Consumer 9	2571.20		2574.60	3.40	1.00	3.40
	5813181	Consumer 10	2853.10		2859.40	6.30	1.00	6.30
	5866358	Consumer 11	3452.00		3458.00	6.00	1.00	6.00
	6636168	Consumer 12	2459.40		2463.60	4.20	1.00	4.20
	6764149	Consumer 13	70.80		78.40	7.60	1.00	7.60
	7269848	Consumer 14	37.80		39.20	1.40	1.00	1.40
	128386	Consumer 15	9204.80		9209.20	4.40	1.00	4.40
	3871416	Consumer 16	14832.40		14832.40	0.00	1.00	0.00
	707981	Consumer 17	9204.80		9209.20	4.40	1.00	4.40
	674594	Consumer 18	5090.70		5093.40	2.70	1.00	2.70
	6636143	Consumer 19	771.80		779.40	7.60	1.00	7.60
	509465	Consumer 20	5431.60		5433.40	1.80	1.00	1.80
	688199	Consumer 21	3759.40		3763.20	3.80	1.00	3.80
	9803600	Consumer 22	0.00	Defective meter	0.00	0.00	1.00	0.00
	5813161	Consumer 23	2853.40		2855.40	2.00	1.00	2.00
	430632	Consumer 24	3000.70		3005.40	4.70	1.00	4.70

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	9419364	Consumer 25	0.00	Defective meter	0.00	0.00	1.00	0.00
	6636166	Consumer 26	486.50		488.20	1.70	1.00	1.70
	6636899	Consumer 27	1026.40		1029.80	3.40	1.00	3.40
	6688988	Consumer 28	1052.50		1054.20	1.70	1.00	1.70
	133937	Consumer 29	1638.00		1643.00	5.00	1.00	5.00
	7326422	Consumer 30	100.50		104.20	3.70	1.00	3.70
	675880	Consumer 31	4042.10		4048.20	6.10	1.00	6.10
	709904	Consumer 32	2236.40		2240.20	3.80	1.00	3.80
	676321	Consumer 33	5965.00		5968.00	3.00	1.00	3.00
	707988	Consumer 34	1054.40		1058.20	3.80	1.00	3.80
	8457219	Consumer 35	3643.00		3648.00	5.00	1.00	5.00
	5008181	Consumer 36	3598.00		3602.00	4.00	1.00	4.00
	5813187	Consumer 37	3056.00		3059.00	3.00	1.00	3.00
	483158	Consumer 38	5535.00		5538.00	3.00	1.00	3.00
	326959	Consumer 39	8768.20		8770.40	2.20	1.00	2.20
	160923	Consumer 40	5870.50		5873.40	2.90	1.00	2.90
	3877248	Consumer 41	2609.80		2613.20	3.40	1.00	3.40
	50102831	Consumer 42	5697.00		5699.00	2.00	1.00	2.00
	s-111/7ps	Consumer 43	0.00	Defective meter	0.00	0.00	1.00	0.00
	588270	Consumer 44	4299.00		4304.00	5.00	1.00	5.00
	9778867	Consumer 45	2520.00		2526.00	6.00	1.00	6.00
	Locked	Consumer 46	0.00	Locked	0.00	0.00	1.00	0.00
	426139	Consumer 47	4871.40		4873.40	2.00	1.00	2.00
	5813174	Consumer 48	6068.00		6073.00	5.00	1.00	5.00
	5010289	Consumer 49	8104.50		8108.20	3.70	1.00	3.70
	5010287	Consumer 50	8104.50		8108.20	3.70	1.00	3.70
	675463	Consumer 51	1830.40		1834.50	4.10	1.00	4.10
	1789075	Consumer 52	998.00		1003.00	5.00	1.00	5.00
	167124	Consumer 53	5126.00		5129.00	3.00	1.00	3.00
	7362991	Consumer 54	38.50		41.20	2.70	1.00	2.70
	712052	Consumer 55	3359.00		3362.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	5813162	Consumer 56	6858.40		6859.80	1.40	1.00	1.40
	5863389	Consumer 57	2379.80		2382.40	2.60	1.00	2.60
	6754900	Consumer 58	209.00		211.00	2.00	1.00	2.00
	7266791	Consumer 59	990.00		995.00	5.00	1.00	5.00
	6755849	Consumer 60	29.80		31.40	1.60	1.00	1.60
	1H-610459	Consumer 61	3506.20		3509.40	3.20	1.00	3.20
	18279725	Consumer 62	316.00		320.00	4.00	1.00	4.00
	5712077	Consumer 63	9054.00		9058.00	4.00	1.00	4.00
	1005979	Consumer 64	8941.60		8943.40	1.80	1.00	1.80
	9778860	Consumer 65	2879.00		2882.00	3.00	1.00	3.00
	584134	Consumer 66	5400.50		5404.20	3.70	1.00	3.70
	5743937	Consumer 67	5121.00		5124.00	3.00	1.00	3.00
	9197965	Consumer 68	11132.70		11134.00	1.30	1.00	1.30
	9686111	Consumer 69	0.00	Defective meter	0.00	0.00	1.00	0.00
	483802	Consumer 70	8987.50		8989.40	1.90	1.00	1.90
	Locked	Consumer 71	0.00	Locked	0.00	0.00	1.00	0.00
	18282448	Consumer 72	76.00		79.00	3.00	1.00	3.00
	675883	Consumer 73	2665.00		2668.00	3.00	1.00	3.00
	5867465	Consumer 74	2852.50		2856.20	3.70	1.00	3.70
	349105	Consumer 75	1915.80		1919.40	3.60	1.00	3.60
	585921	Consumer 76	5691.00		5693.00	2.00	1.00	2.00
	483106	Consumer 77	2288.00		2292.00	4.00	1.00	4.00
	9625391	Consumer 78	962.00		968.00	6.00	1.00	6.00
	5814334	Consumer 79	8264.00		8268.00	4.00	1.00	4.00
	3084263	Consumer 80	21714.00		21718.00	4.00	1.00	4.00
	5814327	Consumer 81	12388.00		12391.00	3.00	1.00	3.00
	5814327	Consumer 82	12388.00		12391.00	3.00	1.00	3.00
	58133731	Consumer 83	6951.00		6954.00	3.00	1.00	3.00
	5814331	Consumer 84	1186.00		1188.00	2.00	1.00	2.00
	58133921	Consumer 85	2297.00		2301.00	4.00	1.00	4.00
	817010	Consumer 86	8142.00		8146.00	4.00	1.00	4.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	661810	Consumer 87	2030.00		2033.00	3.00	1.00	3.00
	780096	Consumer 88	2969.50		2971.40	1.90	1.00	1.90
	5813380	Consumer 89	2729.00		2731.00	2.00	1.00	2.00
	Locked	Consumer 90	0.00	Locked	0.00	0.00	1.00	0.00
	5813166	Consumer 91	4586.00		4589.00	3.00	1.00	3.00
	5813399	Consumer 92	9952.00		9956.00	4.00	1.00	4.00
	17890113	Consumer 93	846.00		848.00	2.00	1.00	2.00
	5813394	Consumer 94	5300.00		5305.00	5.00	1.00	5.00
	2796509	Consumer 95	6179.30		6182.40	3.10	1.00	3.10
	6636313	Consumer 96	1704.00		1708.00	4.00	1.00	4.00
	5813183	Consumer 97	2459.40		2462.40	3.00	1.00	3.00
	5010362	Consumer 98	1589.00		1591.00	2.00	1.00	2.00
	9199946	Consumer 99	0.00	Defective meter	0.00	0.00	1.00	0.00
	Locked	Consumer 100	0.00	Locked	0.00	0.00	1.00	0.00
	8131154	Consumer 101	4812.00		4814.00	2.00	1.00	2.00
	17889169	Consumer 102	1594.00		1596.00	2.00	1.00	2.00
	7326585	Consumer 103	106.40		107.40	1.00	1.00	1.00
	5863109	Consumer 104	1489.00		1492.00	3.00	1.00	3.00
	18254788	Consumer 105	0.00	Defective meter	0.00	0.00	1.00	0.00
	5368177	Consumer 106	8538.00		8542.00	4.00	1.00	4.00
	9803619	Consumer 107	0.00	Defective meter	0.00	0.00	1.00	0.00
	5863613	Consumer 108	9868.00		9872.00	4.00	1.00	4.00
	17890917	Consumer 109	1094.00		1098.00	4.00	1.00	4.00
	709269	Consumer 110	6640.00		6642.00	2.00	1.00	2.00
	18255190	Consumer 111	2420.00		2422.00	2.00	1.00	2.00
	5568169	Consumer 112	4768.00		4769.00	1.00	1.00	1.00
	4991911	Consumer 113	2453.00		2458.00	5.00	1.00	5.00
	5742818	Consumer 114	3425.00		3428.00	3.00	1.00	3.00
	5568175	Consumer 115	9766.00		9769.00	3.00	1.00	3.00
	6685331	Consumer 116	733.00		734.00	1.00	1.00	1.00
	5008306	Consumer 117	2632.00		2635.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	5744062	Consumer 118	2345.00		2348.00	3.00	1.00	3.00
	Total		**472732.40**		**473078.20**	**345.80**		**345.80**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
1.10.2012	RJD05480	1885.50	1895.40	9.90	100	40	396.00	13.99%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
1.10.2012	5009520	Consumer 1	3051.00		3053.00	2.00	1.00	2.00
	17889336	Consumer 2	138.00		143.00	5.00	1.00	5.00
	7325046	Consumer 3	51.00		53.00	2.00	1.00	2.00
	5154022	Consumer 4	1427.00		1430.00	3.00	1.00	3.00
	3133220	Consumer 5	2775.30		2778.30	3.00	1.00	3.00
	3147761	Consumer 6	37981.00		37985.00	4.00	1.00	4.00
	7269489	Consumer 7	1501.00		1504.00	3.00	1.00	3.00
	6689707	Consumer 8	1114.00		1118.00	4.00	1.00	4.00
	674396	Consumer 9	1462.80		1469.20	6.40	1.00	6.40
	768073	Consumer 10	1902.00		1906.00	4.00	1.00	4.00
	6689271	Consumer 11	128.00		131.00	3.00	1.00	3.00
	17038011	Consumer 12	548.00		552.00	4.00	1.00	4.00
	9778794	Consumer 13	13941.00		13945.00	4.00	1.00	4.00
	18279783	Consumer 14	306.00		311.00	5.00	1.00	5.00
	6754286	Consumer 15	47.00		53.00	6.00	1.00	6.00
	42757	Consumer 16	0.00	Defective meter	0.00	0.00	1.00	0.00
	JDE04246	Consumer 17	0.00	Defective meter	0.00	0.00	1.00	0.00
	850640	Consumer 18	663.00		668.00	5.00	1.00	5.00
	5009459	Consumer 19	8339.00		8345.00	6.00	1.00	6.00
	7336016	Consumer 20	8.00		8.00	0.00	1.00	0.00
	764752	Consumer 21	1534.00		1538.00	4.00	1.00	4.00
	6755369	Consumer 22	5.00		8.00	3.00	1.00	3.00
	5949876	Consumer 23	336.00		339.00	3.00	1.00	3.00
	706076	Consumer 24	2477.00		2482.00	5.00	1.00	5.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	4992365	Consumer 25	2485.00		2489.00	4.00	1.00	4.00
	274879	Consumer 26	0.00	Defective meter	0.00	0.00	1.00	0.00
	9675390	Consumer 27	835.00		842.00	7.00	1.00	7.00
	709733	Consumer 28	2394.00		2399.00	5.00	1.00	5.00
	6764831	Consumer 29	8.00		8.00	0.00	1.00	0.00
	9778784	Consumer 30	3590.00		3598.00	8.00	1.00	8.00
	5011130	Consumer 31	2298.00		2302.00	4.00	1.00	4.00
	781337	Consumer 32	70.00		75.00	5.00	1.00	5.00
	17038013	Consumer 33	2733.00		2738.00	5.00	1.00	5.00
	1313057	Consumer 34	1357.40		1362.00	4.60	1.00	4.60
	4923922	Consumer 35	2612.80		2616.50	3.70	1.00	3.70
	5814156	Consumer 36	2336.80		2343.40	6.60	1.00	6.60
	674599	Consumer 37	1024.00		1028.00	4.00	1.00	4.00
	780994	Consumer 38	2567.00		2572.00	5.00	1.00	5.00
	481256	Consumer 39	2662.00		2664.00	2.00	1.00	2.00
	5743734	Consumer 40	10591.00		10598.00	7.00	1.00	7.00
	5864411	Consumer 41	14663.00		14668.00	5.00	1.00	5.00
	7362419	Consumer 42	10.00		10.00	0.00	1.00	0.00
	711169	Consumer 43	1078.00		1082.00	4.00	1.00	4.00
	671806	Consumer 44	9894.20		9898.40	4.20	1.00	4.20
	483329	Consumer 45	6722.00		6728.00	6.00	1.00	6.00
	6639345	Consumer 46	605.00		608.00	3.00	1.00	3.00
	7P8/B-43	Consumer 47	1628.00		1632.00	4.00	1.00	4.00
	618001	Consumer 48	2693.00		2699.00	6.00	1.00	6.00
	483683	Consumer 49	2027.20		2029.40	2.20	1.00	2.20
	Locked	Consumer 50	0.00	Locked	0.00	0.00	1.00	0.00
	6636879	Consumer 51	1744.00		1748.00	4.00	1.00	4.00
	17037309	Consumer 52	363.00		368.00	5.00	1.00	5.00
	764579	Consumer 53	890.00		896.00	6.00	1.00	6.00
	588048	Consumer 54	3112.00		3117.00	5.00	1.00	5.00
	274888	Consumer 55	2061.00		2064.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	671805	Consumer 56	4338.00		4340.00	2.00	1.00	2.00
	6685229	Consumer 57	1168.00		1172.00	4.00	1.00	4.00
	9686779	Consumer 58	0.00	Defective meter	0.00	0.00	1.00	0.00
	5009514	Consumer 59	0.00	Defective meter	0.00	0.00	1.00	0.00
	5005167	Consumer 60	3472.00		3478.00	6.00	1.00	6.00
	9683893	Consumer 61	1152.00		1155.00	3.00	1.00	3.00
	483534	Consumer 62	1115.00		1118.00	3.00	1.00	3.00
	5867467	Consumer 63	0.00	Defective meter	0.00	0.00	1.00	0.00
	18283375	Consumer 64	3.00		3.00	0.00	1.00	0.00
	5949097	Consumer 65	4446.00		4448.00	2.00	1.00	2.00
	5012528	Consumer 66	0.00	Defective meter	0.00	0.00	1.00	0.00
	9198805	Consumer 67	0.00	Defective meter	0.00	0.00	1.00	0.00
	707299	Consumer 68	3158.00		3162.00	4.00	1.00	4.00
	764756	Consumer 69	2318.00		2321.00	3.00	1.00	3.00
	5012527	Consumer 70	5350.00		5354.00	4.00	1.00	4.00
	9778443	Consumer 71	2721.00		2725.00	4.00	1.00	4.00
	711990	Consumer 72	1954.00		1958.00	4.00	1.00	4.00
	18283359	Consumer 73	287.00		292.00	5.00	1.00	5.00
	6754517	Consumer 74	3.00		3.00	0.00	1.00	0.00
	6756965	Consumer 75	215.00		218.00	3.00	1.00	3.00
	285587	Consumer 76	5465.00		5468.00	3.00	1.00	3.00
	9682078	Consumer 77	1450.00		1452.00	2.00	1.00	2.00
	2272213	Consumer 78	2271.90		2274.20	2.30	1.00	2.30
	227252	Consumer 79	1656.00		1658.00	2.00	1.00	2.00
	4991707	Consumer 80	8196.00		8198.00	2.00	1.00	2.00
	711179	Consumer 81	3590.00		3592.00	2.00	1.00	2.00
	7268006	Consumer 82	1465.00		1468.00	3.00	1.00	3.00
	482437	Consumer 83	1824.00		1828.00	4.00	1.00	4.00
	7268003	Consumer 84	4913.00		4915.00	2.00	1.00	2.00
	17890336	Consumer 85	1730.00		1732.00	2.00	1.00	2.00
	17888849	Consumer 86	737.00		739.00	2.00	1.00	2.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	4990069	Consumer 87	104.90		109.40	4.50	1.00	4.50
	9776800	Consumer 88	1762.00		1764.00	2.00	1.00	2.00
	9625900	Consumer 89	2466.00		2468.00	2.00	1.00	2.00
	733741	Consumer 90	2.00	Theft	2.00	5.00	1.00	5.00
	7338883	Consumer 91	6.00	Theft	6.00	5.00	1.00	5.00
	5009571	Consumer 92	0.00	Defective meter	0.00	0.00	1.00	0.00
	715864	Consumer 93	1478.00		1479.00	1.00	1.00	1.00
	414107	Consumer 94	3542.00		3544.00	2.00	1.00	2.00
	775875	Consumer 95	0.00	Defective meter	0.00	0.00	1.00	0.00
	9778788	Consumer 96	1053.00		1058.00	5.00	1.00	5.00
	7326510	Consumer 97	193.00		196.00	3.00	1.00	3.00
	18256248	Consumer 98	225.00		229.00	4.00	1.00	4.00
	7266793	Consumer 99	5743.00		5748.00	5.00	1.00	5.00
	17890165	Consumer 100	1878.00		1879.40	1.40	1.00	1.40
	415081	Consumer 101	1026.00		1028.00	2.00	1.00	2.00
	705050	Consumer 102	5315.00		5318.00	3.00	1.00	3.00
	3066069	Consumer 103	2890.00		2894.00	4.00	1.00	4.00
	6639345	Consumer 104	605.00		608.00	3.00	1.00	3.00
	3077233	Consumer 105	0.00	Defective meter	0.00	0.00	1.00	0.00
	358566	Consumer 106	8018.70		8021.40	2.70	1.00	2.70
	Total		**266095.00**		**266425.60**	**340.60**		**340.60**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
4.10.2012	RJD05495	1020.90	1027.40	6.50	100.00	40	260.00	16.35%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
4.10.2012	3491966	Consumer 1	43415.40		43418.20	2.80	1	2.80
	3468163	Consumer 2	1065.00		1069.00	4.00	1	4.00
	6636482	Consumer 3	1995.40		1998.30	2.90	1	2.90
	6764736	Consumer 4	23.40		24.80	1.40	1	1.40
	5864488	Consumer 5	17728.00		17731.00	3.00	1	3.00
	5810774	Consumer 6	9306.00		9309.00	3.00	1	3.00
	677976	Consumer 7	8398.00		8402.00	4.00	1	4.00
	677977	Consumer 8	3363.00		3367.00	4.00	1	4.00
	18283213	Consumer 9	318.00		321.00	3.00	1	3.00
	9197957	Consumer 10	0.00	Defective meter	0.00	0.00	1	0.00
	128305	Consumer 11	2389.80		2392.50	2.70	1	2.70
	9683579	Consumer 12	471.00		475.00	4.00	1	4.00
	17890150	Consumer 13	4517.00		4522.00	5.00	1	5.00
	9197977	Consumer 14	8802.00		8804.00	2.00	1	2.00
	709919	Consumer 15	5136.60		5139.40	2.80	1	2.80
	Locked	Consumer 16	0.00	Locked	0.00	0.00	1	0.00
	764578	Consumer 17	883.00		885.00	2.00	1	2.00
	705823	Consumer 18	3509.80		3514.50	4.70	1	4.70
	481691	Consumer 19	50385.00		50389.00	4.00	1	4.00
	3468715	Consumer 20	9176.80		9179.80	3.00	1	3.00
	3874103	Consumer 21	7711.60		7714.80	3.20	1	3.20
	707177	Consumer 22	3890.40		3895.40	5.00	1	5.00
	677980	Consumer 23	523.70		526.40	2.70	1	2.70
	7362128	Consumer 24	20.60		23.40	2.80	1	2.80
	968358	Consumer 25	3199.00		3205.00	6.00	1	6.00
	483243	Consumer 26	3294.00		3296.00	2.00	1	2.00
	9778798	Consumer 27	1390.00		1395.00	5.00	1	5.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	7338109	Consumer 28	38.50		42.60	4.10	1	4.10
	5154582	Consumer 29	9950.00		9954.00	4.00	1	4.00
	9421384	Consumer 30	0.00	Defective meter	0.00	0.00	1	0.00
	5812762	Consumer 31	7897.00		7903.00	6.00	1	6.00
	2458702	Consumer 32	13033.50		13038.20	4.70	1	4.70
	2797580	Consumer 33	16859.90		16861.40	1.50	1	1.50
	850634	Consumer 34	3403.80		3406.40	2.60	1	2.60
	5863117	Consumer 35	8030.00		8035.00	5.00	1	5.00
	668649	Consumer 36	914.30		918.40	4.10	1	4.10
	17888609	Consumer 37	532.00		536.00	4.00	1	4.00
	Locked	Consumer 38	0.00	Locked	0.00	0.00	1	0.00
	775183	Consumer 39	2980.90		2983.40	2.50	1	2.50
	17038294	Consumer 40	1847.20		1852.40	5.20	1	5.20
	128939	Consumer 41	13523.40		13528.40	5.00	1	5.00
	3084997	Consumer 42	7656.80		7659.40	2.60	1	2.60
	5295924	Consumer 43	2300.00		2305.00	5.00	1	5.00
	589866	Consumer 44	8716.00		8719.00	3.00	1	3.00
	589288	Consumer 45	291.40		294.50	3.10	1	3.10
	Locked	Consumer 46	0.00	Locked	0.00	0.00	1	0.00
	5947853	Consumer 47	0.00	Defective meter	0.00	0.00	1	0.00
	18255469	Consumer 48	278.70		283.40	4.70	1	4.70
	7362420	Consumer 49	27.60		29.40	1.80	1	1.80
	2121-00474	Consumer 50	18543.90		18548.40	4.50	1	4.50
	1829534	Consumer 51	19030.70		19035.00	4.30	1	4.30
	9199850	Consumer 52	6753.00		6757.00	4.00	1	4.00
	4915306	Consumer 53	18539.40		18541.80	2.40	1	2.40
	5297570	Consumer 54	118314.20		118322.50	8.30	1	8.30
	677984	Consumer 55	6870.00		6873.00	3.00	1	3.00
	415504	Consumer 56	9777.00		9781.40	4.40	1	4.40
	1827789	Consumer 57	13813.40		13818.50	5.10	1	5.10
	8459114	Consumer 58	3932.40		3933.80	1.40	1	1.40

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	Locked	Consumer 59	0.00	Locked	0.00	0.00	1	0.00
	9416373	Consumer 60	0.00	Defective meter	0.00	0.00	1	0.00
	9779201	Consumer 61	1711.30		1714.40	3.10	1	3.10
	4916405	Consumer 62	8160.00		8163.00	3.00	1	3.00
	584133	Consumer 63	3320.50		3323.40	2.90	1	2.90
	5864482	Consumer 64	6125.00		6128.00	3.00	1	3.00
	590309	Consumer 65	2521.20		2524.00	2.80	1	2.80
	6755895	Consumer 66	145.80		149.40	3.60	1	3.60
	1054803	Consumer 67	15703.40		15708.20	4.80	1	4.80
	9779905	Consumer 68	232.00		235.00	3.00	1	3.00
	Total		**542686.70**		**542904.20**	**217.50**		**217.50**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
5.10.2012	RJD05627	1288.10	1294.20	6.10	100.00	40	244.00	13.07%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
5.10.2012	17890005	Consumer 1	950.20		953.70	3.50	1.00	3.50
	7325823	Consumer 2	48.00		51.00	3.00	1.00	3.00
	91050714	Consumer 3	13339.00		13342.00	3.00	1.00	3.00
	7337019	Consumer 4	19.00		20.00	1.00	1.00	1.00
	585895	Consumer 5	1789.00		1792.00	3.00	1.00	3.00
	6636836	Consumer 6	1072.00		1075.00	3.00	1.00	3.00
	18281373	Consumer 7	330.00		333.00	3.00	1.00	3.00
	588213	Consumer 8	2112.00		2115.00	3.00	1.00	3.00
	7337020	Consumer 9	68.00		73.00	5.00	1.00	5.00
	327764	Consumer 10	1210.00		1212.00	2.00	1.00	2.00
	8480888	Consumer 11	9202.00		9205.00	3.00	1.00	3.00
	537515	Consumer 12	3082.00		3085.00	3.00	1.00	3.00
	677982	Consumer 13	3852.00		3856.00	4.00	1.00	4.00
	5814512	Consumer 14	9944.00		9948.00	4.00	1.00	4.00
	713012	Consumer 15	0.00	Defective meter	0.00	0.00	1.00	0.00
	1313284	Consumer 16	694.00		697.00	3.00	1.00	3.00
	160218	Consumer 17	1682.00		1688.00	6.00	1.00	6.00
	7320261	Consumer 18	320.00		326.00	6.00	1.00	6.00
	587218	Consumer 19	1730.00		1733.00	3.00	1.00	3.00
	8280179	Consumer 20	635.00		637.00	2.00	1.00	2.00
	181886	Consumer 21	18020.00		18024.00	4.00	1.00	4.00
	2798516	Consumer 22	8539.00		8543.00	4.00	1.00	4.00
	482004	Consumer 23	1782.00		1785.00	3.00	1.00	3.00
	176705	Consumer 24	4186.00		4192.00	6.00	1.00	6.00
	589873	Consumer 25	2485.00		2488.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	1789235	Consumer 26	2779.00		2783.00	4.00	1.00	4.00
	590302	Consumer 27	3097.00		3102.00	5.00	1.00	5.00
	6754903	Consumer 28	12.00		14.00	2.00	1.00	2.00
	888179	Consumer 29	9470.00		9470.40	0.40	1.00	0.40
	881071	Consumer 30	1879.00		1885.00	6.00	1.00	6.00
	668523	Consumer 31	37.00		37.00	3.00	1.00	3.00
	160215	Consumer 32	7813.50		7815.40	1.90	1.00	1.90
	67613	Consumer 33	1012.00		1017.00	5.00	1.00	5.00
	5743432	Consumer 34	1590.00		1594.00	4.00	1.00	4.00
	1827480	Consumer 35	2302.00		2305.00	3.00	1.00	3.00
	6689198	Consumer 36	680.00		684.30	4.30	1.00	4.30
	9810800	Consumer 37	2373.00		2375.00	2.00	1.00	2.00
	9682546	Consumer 38	2880.00		2884.00	4.00	1.00	4.00
	589279	Consumer 39	4126.00		4127.00	1.00	1.00	1.00
	2152589	Consumer 40	9249.00		9253.00	4.00	1.00	4.00
	7326589	Consumer 41	9862.00		9866.00	4.00	1.00	4.00
	7326584	Consumer 42	44.00		47.40	3.40	1.00	3.40
	858697	Consumer 43	1999.50		2003.40	3.90	1.00	3.90
	17892562	Consumer 44	591.80		596.70	4.90	1.00	4.90
	9686694	Consumer 45	0.00	Defective meter	0.00	0.00	1.00	0.00
	58125681	Consumer 46	1289.00		1292.00	3.00	1.00	3.00
	618267	Consumer 47	0.00	Defective meter	0.00	0.00	1.00	0.00
	9682077	Consumer 48	2198.00		2201.00	3.00	1.00	3.00
	748313	Consumer 49	1203.00		1206.00	3.00	1.00	3.00
	5812570	Consumer 50	4372.00		4373.00	1.00	1.00	1.00
	438354	Consumer 51	2997.00		3003.40	6.40	1.00	6.40
	318428	Consumer 52	7621.00		7626.00	5.00	1.00	5.00
	18255792	Consumer 53	11747.30		11749.80	2.50	1.00	2.50
	9686197	Consumer 54	0.00	Defective meter	0.00	0.00	1.00	0.00
	1325148	Consumer 55	6458.00		6462.50	4.50	1.00	4.50
	7357014	Consumer 56	94.00		102.40	8.40	1.00	8.40

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	617801	Consumer 57	6322.00		6328.00	6.00	1.00	6.00
	168671	Consumer 58	5312.00		5316.00	4.00	1.00	4.00
	274884	Consumer 59	1884.00		1887.00	3.00	1.00	3.00
	7337188	Consumer 60	41.00		43.00	2.00	1.00	2.00
	96813153	Consumer 61	1350.00		1358.00	8.00	1.00	8.00
	BM1006576	Consumer 62	18805.00		18808.00	3.00	1.00	3.00
	Total		**220580.30**		**220789.40**	**212.10**		**212.10**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
8.10.2012	RJD05627	1286.50	1291.20	4.70	100.00	40	188.00	14.68%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
8.10.2012	18257154	Consumer 1	1691.00		1697.00	6.00	1.00	6.00
	5568981	Consumer 2	1738.00		1742.00	4.00	1.00	4.00
	5568789	Consumer 3	2688.00		2690.00	2.00	1.00	2.00
	6688212	Consumer 4	682.50		686.60	4.10	1.00	4.10
	5568969	Consumer 5	3898.40		3902.30	3.90	1.00	3.90
	17890170	Consumer 6	431.20		435.40	4.20	1.00	4.20
	415670	Consumer 7	3682.00		3684.00	2.00	1.00	2.00
	5568979	Consumer 8	2356.00		2359.00	3.00	1.00	3.00
	5568989	Consumer 9	1287.00		1289.00	2.00	1.00	2.00
	5578928	Consumer 10	1832.60		1836.40	3.80	1.00	3.80
	9684343	Consumer 11	2206.40		2209.50	3.10	1.00	3.10
	9812342	Consumer 12	2712.00		2718.00	6.00	1.00	6.00
	8838231	Consumer 13	5491.00		5493.00	2.00	1.00	2.00
	18279188	Consumer 14	159.00		162.00	3.00	1.00	3.00
	414552	Consumer 15	0.00	Defective meter	0.00	0.00	1.00	0.00
	906286	Consumer 16	11066.00		11068.00	2.00	1.00	2.00
	5743009	Consumer 17	16248.00		16252.00	4.00	1.00	4.00
	9190783	Consumer 18	4144.20		4148.60	4.40	1.00	4.40
	275075	Consumer 19	2813.00		2816.00	3.00	1.00	3.00
	18256851	Consumer 20	148.30		152.00	3.70	1.00	3.70
	17893491	Consumer 21	818.00		821.00	3.00	1.00	3.00
	715396	Consumer 22	1786.80		1790.70	3.90	1.00	3.90
	6685161	Consumer 23	753.00		756.00	3.00	1.00	3.00
	675229	Consumer 24	1432.00		1435.00	3.00	1.00	3.00
	BM00567	Consumer 25	6782.00		6785.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	705821	Consumer 26	1303.60		1305.80	2.20	1.00	2.20
	706126	Consumer 27	48.00		52.00	4.00	1.00	4.00
	8458262	Consumer 28	1792.00		1795.00	3.00	1.00	3.00
	2283138	Consumer 29	61512.00		61528.00	16.00	1.00	16.00
	7325049	Consumer 30	356.30		358.30	2.00	1.00	2.00
	8881269	Consumer 31	15889.00		15892.00	3.00	1.00	3.00
	18279776	Consumer 32	256.00		258.00	2.00	1.00	2.00
	18255815	Consumer 33	803.00		805.00	2.00	1.00	2.00
	716311	Consumer 34	1637.40		1639.60	2.20	1.00	2.20
	6766910	Consumer 35	67.00		71.00	4.00	1.00	4.00
	6962912	Consumer 36	188.00		191.00	3.00	1.00	3.00
	6952967	Consumer 37	798.00		798.00	0.00	1.00	0.00
	18252817	Consumer 38	1322.00		1325.00	3.00	1.00	3.00
	18252819	Consumer 39	1726.00		1728.00	2.00	1.00	2.00
	58185687	Consumer 40	652.00		655.00	3.00	1.00	3.00
	58128672	Consumer 41	1088.00		1092.00	4.00	1.00	4.00
	58125756	Consumer 42	971.60		975.50	3.90	1.00	3.90
	2152591	Consumer 43	870.00		873.00	3.00	1.00	3.00
	745364	Consumer 44	2792.00		2796.00	4.00	1.00	4.00
	5812571	Consumer 45	1382.00		1391.00	9.00	1.00	9.00
	318429	Consumer 46	1509.00		1512.00	3.00	1.00	3.00
	Total		**173809.30**		**173969.70**	**160.40**		**160.40**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
9.10.2012	RJD05456	1132.40	1135.00	2.60	100.00	40	104.00	11.25%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
9.10.2012	9778446	Consumer 1	4255.00		4257.00	2.00	1.00	2.00
	6767525	Consumer 2	61.60		63.40	1.80	1.00	1.80
	605206	Consumer 3	0.00	Defective meter	0.00	0.00	1.00	0.00
	9684232	Consumer 4	3433.00		3436.00	3.00	1.00	3.00
	858014	Consumer 5	710.90		713.70	2.80	1.00	2.80
	8458248	Consumer 6	1087.00		1089.00	2.00	1.00	2.00
	9683727	Consumer 7	1668.00		1671.00	3.00	1.00	3.00
	5832830	Consumer 8	388.00		392.00	4.00	1.00	4.00
	10045020	Consumer 9	6457.50		6459.60	2.10	1.00	2.10
	1006053	Consumer 10	14132.30		14138.00	5.70	1.00	5.70
	6636943	Consumer 11	1407.00		1409.60	2.60	1.00	2.60
	6764296	Consumer 12	210.00		213.40	3.40	1.00	3.40
	17892100	Consumer 13	4234.60		4237.30	2.70	1.00	2.70
	850036	Consumer 14	15192.80		15198.60	5.80	1.00	5.80
	130323	Consumer 15	1452.00		1455.00	3.00	1.00	3.00
	6688427	Consumer 16	16301.70		16307.40	5.70	1.00	5.70
	483520	Consumer 17	67.30		69.60	2.30	1.00	2.30
	6765436	Consumer 18	1200.20		1204.30	4.10	1.00	4.10
	7326472	Consumer 19	7142.50		7148.80	6.30	1.00	6.30
	5872559	Consumer 20	97.00		99.30	2.30	1.00	2.30
	6764017	Consumer 21	0.00	Defective meter	0.00	0.00	1.00	0.00
	414507	Consumer 22	1629.30		1632.70	3.40	1.00	3.40
	17891937	Consumer 23	1280.40		1282.70	2.30	1.00	2.30
	9682545	Consumer 24	8818.90		8821.00	2.10	1.00	2.10
	5873357	Consumer 25	12138.00		12140.00	2.00	1.00	2.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	B-143	Consumer 26	0.00	Defective meter	0.00	0.00	1.00	0.00
	6755074	Consumer 27	484.90		487.30	2.40	1.00	2.40
	676414	Consumer 28	6993.00		6995.00	2.00	1.00	2.00
	131907	Consumer 29	6611.00		6613.00	2.00	1.00	2.00
	CU8P2/B-136	Consumer 30	590.40		593.40	3.00	1.00	3.00
	17891489	Consumer 31	1433.00		1435.30	2.30	1.00	2.30
	CU8P2/B-117	Consumer 32	13483.40		13485.30	1.90	1.00	1.90
	906282	Consumer 33	5756.20		5758.30	2.10	1.00	2.10
	716311	Consumer 34	1637.40		1639.60	2.20	1.00	2.20
	Total		**140354.30**		**140446.60**	**92.30**		**92.30**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
10.10.2012	RJD05644	1338.10	1347.90	9.80	100.00	40	392.00	14.59%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
10.10.2012	5154018	Consumer 1	4129.00		4132.00	3.00	1.00	3.00
	17892628	Consumer 2	0.00	Defective meter	0.00	0.00	1.00	0.00
	676511	Consumer 3	4237.80		4241.40	3.60	1.00	3.60
	9682672	Consumer 4	0.00	Defective meter	0.00	0.00	1.00	0.00
	775799	Consumer 5	2191.80		2198.30	6.50	1.00	6.50
	168467	Consumer 6	2738.00		2742.00	4.00	1.00	4.00
	640706	Consumer 7	26831.20		26834.30	3.10	1.00	3.10
	5713638	Consumer 8	1238.00		1242.00	4.00	1.00	4.00
	6756695	Consumer 9	228.60		231.40	2.80	1.00	2.80
	18255003	Consumer 10	1233.90		1239.40	5.50	1.00	5.50
	483241	Consumer 11	697.40		701.20	3.80	1.00	3.80
	6688952	Consumer 12	848.00		852.00	4.00	1.00	4.00
	674388	Consumer 13	2872.50		2878.40	5.90	1.00	5.90
	740662	Consumer 14	987.00		992.00	5.00	1.00	5.00
	18255471	Consumer 15	258.00		262.00	4.00	1.00	4.00
	711993	Consumer 16	2784.10		2789.50	5.40	1.00	5.40
	911264	Consumer 17	1481.20		1485.20	4.00	1.00	4.00
	50115561	Consumer 18	1638.00		1642.00	4.00	1.00	4.00
	483804	Consumer 19	2808.00		2811.00	3.00	1.00	3.00
	9778863	Consumer 20	0.00	Defective meter	0.00	0.00	1.00	0.00
	716578	Consumer 21	1277.00		1280.00	3.00	1.00	3.00
	5863460	Consumer 22	0.00	Defective meter	0.00	0.00	1.00	0.00
	9803596	Consumer 23	0.00	Defective meter	0.00	0.00	1.00	0.00
	5018899	Consumer 24	7041.00		7046.00	5.00	1.00	5.00
	537527	Consumer 25	1864.00		1869.00	5.00	1.00	5.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	483102	Consumer 26	3086.10		3088.30	2.20	1.00	2.20
	857577	Consumer 27	1082.00		1086.00	4.00	1.00	4.00
	17888851	Consumer 28	472.00		475.00	3.00	1.00	3.00
	6756253	Consumer 29	129.00		132.00	3.00	1.00	3.00
	437725	Consumer 30	514.40		518.20	3.80	1.00	3.80
	414695	Consumer 31	1383.00		1388.00	5.00	1.00	5.00
	688747	Consumer 32	3401.00		3406.00	5.00	1.00	5.00
	9779343	Consumer 33	1062.00		1068.00	6.00	1.00	6.00
	358976	Consumer 34	1184.00		1188.00	4.00	1.00	4.00
	616152	Consumer 35	5004.00		5006.00	2.00	1.00	2.00
	5948957	Consumer 36	7804.00		7809.00	5.00	1.00	5.00
	4992178	Consumer 37	1489.00		1492.00	3.00	1.00	3.00
	781375	Consumer 38	1348.00		1352.00	4.00	1.00	4.00
	7337198	Consumer 39	54.90		57.30	2.40	1.00	2.40
	5744702	Consumer 40	4461.00		4463.00	2.00	1.00	2.00
	711173	Consumer 41	786.40		788.50	2.10	1.00	2.10
	858244	Consumer 42	0.00	Defective meter	0.00	0.00	1.00	0.00
	18279967	Consumer 43	415.00		418.00	3.00	1.00	3.00
	17888850	Consumer 44	0.00	Defective meter	0.00	0.00	1.00	0.00
	750612	Consumer 45	1661.00		1663.00	2.00	1.00	2.00
	588038	Consumer 46	9760.00		9765.00	5.00	1.00	5.00
	17890011	Consumer 47	416.90		422.30	5.40	1.00	5.40
	9778793	Consumer 48	1712.00		1714.00	2.00	1.00	2.00
	17891486	Consumer 49	918.70		921.50	2.80	1.00	2.80
	5011067	Consumer 50	9487.00		9489.40	2.40	1.00	2.40
	7362572	Consumer 51	40.20		43.40	3.20	1.00	3.20
	6756613	Consumer 52	78.40		82.60	4.20	1.00	4.20
	715016	Consumer 53	2881.90		2883.40	1.50	1.00	1.50
	9683152	Consumer 54	1481.00		1483.00	2.00	1.00	2.00
	6767308	Consumer 55	50.10		53.40	3.30	1.00	3.30
	715014	Consumer 56	1618.20		1622.40	4.20	1.00	4.20

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	9112096	Consumer 57	0.00	Defective meter	0.00	0.00	1.00	0.00
	715018	Consumer 58	4481.00		4484.00	3.00	1.00	3.00
	6688981	Consumer 59	168.80		172.40	3.60	1.00	3.60
	160066	Consumer 60	2507.70		2512.40	4.70	1.00	4.70
	5867489	Consumer 61	2905.00		2908.00	3.00	1.00	3.00
	705835	Consumer 62	4243.00		4245.00	2.00	1.00	2.00
	7362577	Consumer 63	46.80		49.40	2.60	1.00	2.60
	9675378	Consumer 64	9790.00		9793.00	3.00	1.00	3.00
	4990893	Consumer 65	4739.00		4742.00	3.00	1.00	3.00
	715125	Consumer 66	4644.80		4647.30	2.50	1.00	2.50
	6756966	Consumer 67	220.00		224.00	4.00	1.00	4.00
	857413	Consumer 68	2360.00		2363.00	3.00	1.00	3.00
	6764463	Consumer 69	1.00	Theft	1.00	0.00	1.00	0.00
	498411	Consumer 70	0.00	Defective meter	0.00	0.00	1.00	0.00
	589277	Consumer 71	987.10		991.40	4.30	1.00	4.30
	483518	Consumer 72	3269.00		3272.00	3.00	1.00	3.00
	5742830	Consumer 73	3558.00		3561.00	3.00	1.00	3.00
	7362477	Consumer 74	184.00		187.00	3.00	1.00	3.00
	587482	Consumer 75	1482.00		1486.00	4.00	1.00	4.00
	7265143	Consumer 76	312.00		318.00	6.00	1.00	6.00
	3065170	Consumer 77	34270.20		34273.40	3.20	1.00	3.20
	1368/7P13	Consumer 78	4214.60		4216.40	1.80	1.00	1.80
	319358	Consumer 79	1129.00		1132.00	3.00	1.00	3.00
	6636881	Consumer 80	242.00		246.00	4.00	1.00	4.00
	5949229	Consumer 81	5229.00		5232.00	3.00	1.00	3.00
	717768	Consumer 82	238.00		242.00	4.00	1.00	4.00
	285532	Consumer 83	1712.00		1716.00	4.00	1.00	4.00
	9625409	Consumer 84	2590.00		2593.00	3.00	1.00	3.00
	18284078	Consumer 85	121.00		123.00	2.00	1.00	2.00
	18252435	Consumer 86	567.00		569.00	2.00	1.00	2.00
	160951	Consumer 87	0.00	Defective meter	0.00	0.00	1.00	0.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	5947730	Consumer 88	6180.00		6184.00	4.00	1.00	4.00
	6765999	Consumer 89	36.00		39.00	3.00	1.00	3.00
	483383	Consumer 90	1739.00		1742.00	3.00	1.00	3.00
	7326248	Consumer 91	143.00		148.00	5.00	1.00	5.00
	9778806	Consumer 92	1822.00		1825.00	3.00	1.00	3.00
	4312172	Consumer 93	5816.00		5819.00	3.00	1.00	3.00
	709906	Consumer 94	2512.00		2517.00	5.00	1.00	5.00
	5001149	Consumer 95	1149.00		1153.00	4.00	1.00	4.00
	284257	Consumer 96	5132.00		5136.00	4.00	1.00	4.00
	168788	Consumer 97	1872.00		1876.00	4.00	1.00	4.00
	168877	Consumer 98	1989.00		1993.00	4.00	1.00	4.00
	6756970	Consumer 99	104.00		106.00	2.00	1.00	2.00
	5888392	Consumer 100	1888.00		1892.00	4.00	1.00	4.00
	3084313	Consumer 101	5928.00		5932.00	4.00	1.00	4.00
	711005	Consumer 102	2604.00		2608.00	4.00	1.00	4.00
	705173	Consumer 103	2777.00		2779.00	2.00	1.00	2.00
	17037393	Consumer 104	890.00		893.00	3.00	1.00	3.00
	9685882	Consumer 105	0.00	Defective meter	0.00	0.00	1.00	0.00
	587488	Consumer 106	6704.00		6708.00	4.00	1.00	4.00
	Total		**276662.70**		**276997.50**	**334.80**		**334.80**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
11.10.2012	RJD05243	923.50	926.60	3.10	100.00	40	124.00	14.52%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
11.10.2012	741981	Consumer 1	0.00	Defective meter	0.00	0.00	1.00	0.00
	7269583	Consumer 2	549.00		555.00	6.00	1.00	6.00
	6685085	Consumer 3	412.00		416.00	4.00	1.00	4.00
	823912	Consumer 4	10181.00		10184.00	3.00	1.00	3.00
	732543	Consumer 5	6418.00		6422.00	4.00	1.00	4.00
	590306	Consumer 6	5903.00		5906.00	3.00	1.00	3.00
	715122	Consumer 7	4612.00		4615.00	3.00	1.00	3.00
	6635067	Consumer 8	214.00		218.00	4.00	1.00	4.00
	2799786	Consumer 9	14303.00		14308.00	5.00	1.00	5.00
	674136	Consumer 10	1389.00		1392.00	3.00	1.00	3.00
	158966	Consumer 11	1854.00		1858.00	4.00	1.00	4.00
	327767	Consumer 12	0.00	Defective meter	0.00	0.00	1.00	0.00
	7267498	Consumer 13	522.00		526.00	4.00	1.00	4.00
	726884	Consumer 14	122.00		126.00	4.00	1.00	4.00
	17890927	Consumer 15	102.00		108.00	6.00	1.00	6.00
	6756696	Consumer 16	111.00		118.00	7.00	1.00	7.00
	712055	Consumer 17	893.00		899.00	6.00	1.00	6.00
	7288640	Consumer 18	644.00		649.00	5.00	1.00	5.00
	9682007	Consumer 19	0.00	Defective meter	0.00	0.00	1.00	0.00
	8157287	Consumer 20	0.00	Defective meter	0.00	0.00	1.00	0.00
	9778824	Consumer 21	748.00		753.00	5.00	1.00	5.00
	5948178	Consumer 22	3628.00		3632.00	4.00	1.00	4.00
	9776791	Consumer 23	2043.00		2048.00	5.00	1.00	5.00
	775873	Consumer 24	1255.00		1258.00	3.00	1.00	3.00
	484207	Consumer 25	2680.00		2683.00	3.00	1.00	3.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	481748	Consumer 26	1137.00		1143.00	6.00	1.00	6.00
	9587341	Consumer 27	1817.00		1822.00	5.00	1.00	5.00
	482442	Consumer 28	6812.00		6816.00	4.00	1.00	4.00
	Total		**68349.00**		**68455.00**	**106.00**		**106.00**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
13.10.2012	RJD5469	1465.50	1475.20	9.70	100.00	40	388.00	15.98%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
13.10.2012	676448	Consumer 1	3943.00		3949.00	6.00	1.00	6.00
	168890	Consumer 2	1942.00		1949.00	7.00	1.00	7.00
	7270144	Consumer 3	717.00		722.00	5.00	1.00	5.00
	715817	Consumer 4	2228.00		2231.00	3.00	1.00	3.00
	17893077	Consumer 5	432.00		436.00	4.00	1.00	4.00
	6764830	Consumer 6	12.00		15.00	3.00	1.00	3.00
	5009517	Consumer 7	4387.00		4393.00	6.00	1.00	6.00
	676446	Consumer 8	3533.00		3538.00	5.00	1.00	5.00
	17888848	Consumer 9	1212.00		1215.00	3.00	1.00	3.00
	7337070	Consumer 10	9.00		12.00	3.00	1.00	3.00
	709916	Consumer 11	1580.00		1584.00	4.00	1.00	4.00
	17888261	Consumer 12	932.00		936.00	4.00	1.00	4.00
	719013	Consumer 13	1501.00		1504.00	3.00	1.00	3.00
	617001	Consumer 14	1915.00		1920.00	5.00	1.00	5.00
	676323	Consumer 15	1761.00		1764.00	3.00	1.00	3.00
	17890921	Consumer 16	663.00		668.00	5.00	1.00	5.00
	7337199	Consumer 17	9.00		12.00	3.00	1.00	3.00
	7362999	Consumer 18	42.00		46.00	4.00	1.00	4.00
	168467	Consumer 19	2776.00		2779.00	3.00	1.00	3.00
	9685837	Consumer 20	0.00	Defective meter	0.00	0.00	1.00	0.00
	705817	Consumer 21	1975.00		1980.00	5.00	1.00	5.00
	5154677	Consumer 22	2788.00		2793.00	5.00	1.00	5.00
	18255816	Consumer 23	2239.70		2243.40	3.70	1.00	3.70
	6639948	Consumer 24	2298.40		2302.80	4.40	1.00	4.40
	381756	Consumer 25	14396.90		14401.40	4.50	1.00	4.50

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	JD019218	Consumer 26	11259.40		11264.50	5.10	1.00	5.10
	5568415	Consumer 27	7217.00		7220.00	3.00	1.00	3.00
	5010666	Consumer 28	721.00		724.00	3.00	1.00	3.00
	357576	Consumer 29	5318.40		5322.20	3.80	1.00	3.80
	285394	Consumer 30	9145.00		9158.00	13.00	1.00	13.00
	7326401	Consumer 31	320.50		323.50	3.00	1.00	3.00
	7266714	Consumer 32	1709.00		1713.00	4.00	1.00	4.00
	17892672	Consumer 33	889.10		892.40	3.30	1.00	3.30
	5568402	Consumer 34	1719.30		1723.40	4.10	1.00	4.10
	4992221	Consumer 35	10363.00		10366.00	3.00	1.00	3.00
	712688	Consumer 36	9837.00		9841.00	4.00	1.00	4.00
	709379	Consumer 37	0.00	Defective meter	0.00	0.00	1.00	0.00
	18255036	Consumer 38	211.80		215.40	3.60	1.00	3.60
	512372	Consumer 39	10236.70		10241.40	4.70	1.00	4.70
	Ho. No. 157	Consumer 40	0.00	Locked	0.00	0.00	1.00	0.00
	5010740	Consumer 41	4520.00		4525.00	5.00	1.00	5.00
	160917	Consumer 42	5056.00		5059.00	3.00	1.00	3.00
	3469764	Consumer 43	7340.00		7346.00	6.00	1.00	6.00
	1057636	Consumer 44	8306.90		8309.40	2.50	1.00	2.50
	5007552	Consumer 45	3605.00		3609.00	4.00	1.00	4.00
	3874828	Consumer 46	11598.30		11602.40	4.10	1.00	4.10
	17890383	Consumer 47	807.40		812.50	5.10	1.00	5.10
	Ho. No. 97	Consumer 48	0.00	Locked	0.00	0.00	1.00	0.00
	1828658	Consumer 49	1905.40		1908.40	3.00	1.00	3.00
	358392	Consumer 50	3931.00		3933.00	2.00	1.00	2.00
	2797126	Consumer 51	8233.70		8236.40	2.70	1.00	2.70
	5864414	Consumer 52	4864.00		4869.00	5.00	1.00	5.00
	5744620	Consumer 53	8146.00		8149.00	3.00	1.00	3.00
	716303	Consumer 54	8038.00		8042.00	4.00	1.00	4.00
	TN-1514	Consumer 55	19255.10		19258.40	3.30	1.00	3.30
	160913	Consumer 56	0.00	Defective meter	0.00	0.00	1.00	0.00

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	749881	Consumer 57	264.00		269.00	5.00	1.00	5.00
	6766114	Consumer 58	25.90		29.40	3.50	1.00	3.50
	166578	Consumer 59	1228.00		1232.00	4.00	1.00	4.00
	524109	Consumer 60	8596.00		8599.00	3.00	1.00	3.00
	17888634	Consumer 61	168.00		173.00	5.00	1.00	5.00
	Ho. No. 191	Consumer 62	0.00	Locked	0.00	0.00	1.00	0.00
	854387	Consumer 63	2672.00		2678.00	6.00	1.00	6.00
	SB-100/8P11	Consumer 64	838.00		842.00	4.00	1.00	4.00
	706127	Consumer 65	3272.00		3276.00	4.00	1.00	4.00
	764830	Consumer 66	2273.00		2278.00	5.00	1.00	5.00
	5949881	Consumer 67	3180.00		3184.00	4.00	1.00	4.00
	5154353	Consumer 68	588.00		592.00	4.00	1.00	4.00
	18255312	Consumer 69	1393.40		1395.40	2.00	1.00	2.00
	7892094	Consumer 70	1022.00		1026.00	4.00	1.00	4.00
	60324	Consumer 71	2667.30		2669.40	2.10	1.00	2.10
	99782	Consumer 72	5211.30		5216.40	5.10	1.00	5.10
	581927	Consumer 73	1489.00		1492.00	3.00	1.00	3.00
	5863111	Consumer 74	5438.00		5441.00	3.00	1.00	3.00
	9803598	Consumer 75	0.00	Defective meter	0.00	0.00	1.00	0.00
	706125	Consumer 76	5832.00		5835.00	3.00	1.00	3.00
	JD017805	Consumer 77	1535.50		1542.40	6.90	1.00	6.90
	440867	Consumer 78	6866.00		6869.00	3.00	1.00	3.00
	4992216	Consumer 79	5562.00		5566.00	4.00	1.00	4.00
	7270469	Consumer 80	1153.00		1158.00	5.00	1.00	5.00
	358659	Consumer 81	7453.80		7456.40	2.60	1.00	2.60
	18255813	Consumer 82	443.00		447.00	4.00	1.00	4.00
	10748211	Consumer 83	17097.40		17102.80	5.40	1.00	5.40
	9778842	Consumer 84	3987.00		3992.00	5.00	1.00	5.00
	5948741	Consumer 85	3184.00		3189.00	5.00	1.00	5.00
	10381754	Consumer 86	12344.90		12348.40	3.50	1.00	3.50
	Total		**323630.50**		**323956.50**	**326.00**		**326.00**

Commercial

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
10.10.2012	RJD05456	1499.50	1501.00	1.50	100.00	40	60.00	21.50%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
10.10.2012	6689789	Consumer 1	1447.00		1451.50	4.50	1	4.50
	484209	Consumer 2	3616.00		3619.00	3.00	1	3.00
	284157	Consumer 3	4539.00		4542.00	3.00	1	3.00
	711994	Consumer 4	3338.00		3341.00	3.00	1	3.00
	18283376	Consumer 5	96.70		99.80	3.10	1	3.10
	7337347	Consumer 6	35.90		36.40	0.50	1	0.50
	3065921	Consumer 7	4821.00		4823.40	2.40	1	2.40
	6688431	Consumer 8	797.20		799.40	2.20	1	2.20
	482009	Consumer 9	6775.00		6780.00	5.00	1	5.00
	5866352	Consumer 10	3378.00		3381.00	3.00	1	3.00
	18279409	Consumer 11	358.70		362.30	3.60	1	3.60
	6756253	Consumer 12	418.60		421.00	2.40	1	2.40
	17888851	Consumer 13	474.30		478.30	4.00	1	4.00
	857577	Consumer 14	20.80		24.30	3.50	1	3.50
	7326073	Consumer 15	94.40		98.30	3.90	1	3.90
	Total		**30210.60**		**30257.70**	**47.10**		**47.10**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
3.10.2012	RJD05676	984.20	986.70	2.50	100.00	40	100.00	26.30%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
3.10.2012	538123	Consumer 1	2489.50		2493.60	4.10	1	4.10
	B-15	Consumer 2	1458.20		1464.30	6.10	1	6.10
	Locked	Consumer 3	0.00	Locked	0.00	0.00	1	0.00
	324163	Consumer 4	5045.00		5052.00	7.00	1	7.00
	Locked	Consumer 5	0.00	Locked	0.00	0.00	1	0.00
	9422811	Consumer 6	0.00	Defective meter	0.00	0.00	1	0.00
	674656	Consumer 7	6725.20		6732.40	7.20	1	7.20
	675356	Consumer 8	1941.50		1946.30	4.80	1	4.80
	671820	Consumer 9	1959.00		1964.00	5.00	1	5.00
	6767118	Consumer 10	0.00	Defective meter	0.00	0.00	1	0.00
	5154754	Consumer 11	7120.00		7126.00	6.00	1	6.00
	714690	Consumer 12	3072.00		3078.00	6.00	1	6.00
	581613	Consumer 13	33874.80		33882.40	7.60	1	7.60
	9191928	Consumer 14	1678.00		1683.00	5.00	1	5.00
	581794	Consumer 15	0.00	Defective meter	0.00	0.00	1	0.00
	111121	Consumer 16	38140.70		38148.20	7.50	1	7.50
	7651	Consumer 17	6481.40		6488.80	7.40	1	7.40
	Total		**109985.30**		**110059.00**	**73.70**		**73.70**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
3.10.2012	RJD05676	789.80	790.60	0.80	100.00	40	32.00	25.63%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
3.10.2012	5867485	Consumer 1	5363.00		5365.00	2.00	1	2.00
	17890158	Consumer 2	705.00		709.00	4.00	1	4.00
	9414340	Consumer 3	0.00	Defective meter	0.00	0.00	1	0.00
	6754723	Consumer 4	286.40		288.50	2.10	1	2.10
	586153	Consumer 5	8141.50		8148.20	6.70	1	6.70
	167123	Consumer 6	0.00	Defective meter	0.00	0.00	1	0.00
	17892567	Consumer 7	1596.00		1602.00	6.00	1	6.00
	604509	Consumer 8	6525.00		6528.00	3.00	1	3.00
	Total		**22616.90**		**22640.70**	**23.80**		**23.80**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
27.9.2012	RJD05955	896.60	897.10	0.50	100.00	40	20.00	26.50%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
27.9.2012	504590	Consumer 1	46927.80		46931.40	3.60	1	3.60
	3065278	Consumer 2	12564.00		12570.00	6.00	1	6.00
	Locked	Consumer 3	0.00	Locked	0.00	0.00	1	0.00
	Defective meter	Consumer 4	0.00	Defective meter	0.00	3.00	1	3.00
	6756257	Consumer 5	6691.70		6692.80	1.10	1	1.10
	9778429	Consumer 6	3441.00		3442.00	1.00	1	1.00
	Total		**69624.50**		**69636.20**	**14.70**		**14.70**

Industrial

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
9.10.2012	RJD05695	52.9	53.1	0.20	400.00	210	42.00	2.86%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Consumption
9.10.2012	1346239	Consumer 1	16429.9		16443.4	13.50
	4923579	Consumer 2	21455.5		21470.8	15.30
	16255928	Consumer 3	96784.5		96796.5	12.00
	Total		**134669.90**		**134710.70**	**40.80**

Date	Meter No.	1st read	2nd read	Difference	DT Capacity (kVA)	MF	Consumption	Losses
29.9.2012	RJD05233	146.6	147.5	0.90	100.00	40	36.00	1.94%

Date	Meter No.	Consumer	1st read	Remarks	2nd read	Difference
29.9.2012	504562	Consumer 1	55216.5		55224.8	8.30
	504564	Consumer 2	13786		13794	8.00
	524189	Consumer 3	30408		30417	9.00
	516638	Consumer 4	4970		4980	10.00
	Total		**104380.50**		**104415.80**	**35.30**

3.4 LT survey – Barmer

Date	Location	Type	Consumption (kWh)	Energy loss (%)
23.8.2012	Barmer city	Domestic	162	**12.68**%

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
23.8.2012	Consumer 1	1051.00		1053.00	2.00	1	2.00
	Consumer 2	10209.00		10212.70	3.70	1	3.70
	Consumer 3	7431.00		7436.00	5.00	1	5.00
	Consumer 4	1848.97		1851.73	2.76	1	2.76
	Consumer 5	9791.00		9794.00	3.00	1	3.00
	Consumer 6	3854.00		3859.00	5.00	1	5.00
	Consumer 7	6414.00		6415.00	1.00	1	1.00
	Consumer 8	0.00	Meter defective	0.00	0.00	1	0.00
	Consumer 9	7976.00	Slow meter (theft)	7976.00	0.00	1	0.00
	Consumer 10	1494.00		1497.00	3.00	1	3.00
	Consumer 11	1925.00		1929.00	4.00	1	4.00
	Consumer 12	1964.00		1968.00	4.00	1	4.00
	Consumer 13	1898.00		1899.00	1.00	1	1.00
	Consumer 14	1677.00		1680.00	3.00	1	3.00
	Consumer 15	1436.00		1437.00	1.00	1	1.00
	Consumer 16	1420.00		1423.00	3.00	1	3.00
	Consumer 17	819.00		821.00	2.00	1	2.00
	Consumer 18	148.00		150.00	2.00	1	2.00
	Consumer 19	2036.00		2040.00	4.00	1	4.00
	Consumer 20	10870.00		10872.00	2.00	1	2.00
	Consumer 21	562.00		564.00	2.00	1	2.00
	Consumer 22	2847.00		2850.00	3.00	1	3.00
	Consumer 23	4833.00		4835.00	2.00	1	2.00
	Consumer 24	5234.00		5235.00	1.00	1	1.00
	Consumer 25	7837.00		7842.00	5.00	1	5.00
	Consumer 26	151.00		154.00	3.00	1	3.00
	Consumer 27	293.00		295.00	2.00	1	2.00
	Consumer 28	1345.00		1347.00	2.00	1	2.00
	Consumer 29	1117.00		1120.00	3.00	1	3.00

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	Consumer 30	1572.00		1575.00	3.00	1	3.00
	Consumer 31	7242.00		7244.00	2.00	1	2.00
	Consumer 32	1866.00		1870.00	4.00	1	4.00
	Consumer 33	7049.00		7051.00	2.00	1	2.00
	Consumer 34	2134.00		2136.00	2.00	1	2.00
	Consumer 35	1797.00		1799.00	2.00	1	2.00
	Consumer 36	1914.00		1917.00	3.00	1	3.00
	Consumer 37	1310.00	Meter defective	1310.00	0.00	1	0.00
	Consumer 38	7120.00		7122.00	2.00	1	2.00
	Consumer 39	4755.00		4759.00	4.00	1	4.00
	Consumer 40	6834.00		6835.00	1.00	1	1.00
	Consumer 41	11632.00		11636.00	4.00	1	4.00
	Consumer 42	3757.00		3759.00	2.00	1	2.00
	Consumer 43	7099.00		7101.00	2.00	1	2.00
	Consumer 44	780.00		783.00	3.00	1	3.00
	Consumer 45	0.00	Meter defective	0.00	0.00	1	0.00
	Consumer 46	9203.00		9206.00	3.00	1	3.00
	Consumer 47	14866.00		14870.00	4.00	1	4.00
	Consumer 48	9829.00		9832.00	3.00	1	3.00
	Consumer 49	0.00	Locked	0.00	0.00	1	0.00
	Consumer 50	14674.00		14676.00	2.00	1	2.00
	Consumer 51	0.00	Locked	0.00	0.00	1	0.00
	Consumer 52	2070.00		2071.00	1.00	1	1.00
	Consumer 53	12779.00		12782.00	3.00	1	3.00
	Consumer 54	2455.00		2460.00	5.00	1	5.00
	Consumer 55	3820.00		3825.00	5.00	1	5.00
	Consumer 56	3327.00		3329.00	2.00	1	2.00
	Consumer 57	1210.00		1213.00	3.00	1	3.00
					141.46		**141.46**

Date	Location	Type	Consumption (kWh)	Energy loss (%)
24.8.2012	Barmer city	Domestic	330	**16.06%**

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
24.8.2012	Consumer 1	36828.00		36836.00	8.00	1	8.00
	Consumer 2	3382.00		3386.00	4.00	1	4.00
	Consumer 3	0.00	Defective meter	0.00	3.00	1	3.00
	Consumer 4	1675.00		1676.00	1.00	1	1.00
	Consumer 5	1010.00		1012.00	2.00	1	2.00
	Consumer 6	3929.00		3932.00	3.00	1	3.00
	Consumer 7	2569.00		2572.00	3.00	1	3.00
	Consumer 8	2853.00		2857.00	4.00	1	4.00
	Consumer 9	3449.00		3456.00	7.00	1	7.00
	Consumer 10	2461.00		2464.00	3.00	1	3.00
	Consumer 11	68.00		72.00	4.00	1	4.00
	Consumer 12	34.00		39.00	5.00	1	5.00
	Consumer 13	9202.00		9208.00	6.00	1	6.00
	Consumer 14	14834.00		14835.00	1.00	1	1.00
	Consumer 15	9205.00		9206.00	1.00	1	1.00
	Consumer 16	5090.00		5093.00	3.00	1	3.00
	Consumer 17	769.00		776.00	7.00	1	7.00
	Consumer 18	5435.00		5437.00	2.00	1	2.00
	Consumer 19	3759.00		3761.00	2.00	1	2.00
	Consumer 20	2855.00	Defective meter	2855.00	3.00	1	3.00
	Consumer 21	2998.00		3002.00	4.00	1	4.00
	Consumer 22	490.00		490.00	0.00	1	0.00
	Consumer 23	1055.00		1056.00	1.00	1	1.00
	Consumer 24	1641.00		1641.00	0.00	1	0.00
	Consumer 25	96.00		102.00	6.00	1	6.00
	Consumer 26	4044.00		4047.00	3.00	1	3.00
	Consumer 27	2236.00		2241.00	5.00	1	5.00
	Consumer 28	5962.00		5970.00	8.00	1	8.00
	Consumer 29	1057.00		1057.00	0.00	1	0.00
	Consumer 30	3640.00		3646.00	6.00	1	6.00
	Consumer 31	3598.00		3601.00	3.00	1	3.00

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	Consumer 32	3058.00		3061.00	3.00	1	3.00
	Consumer 33	5533.00		5538.00	5.00	1	5.00
	Consumer 34	8769.00		8773.00	4.00	1	4.00
	Consumer 35	5871.00		5871.00	0.00	1	0.00
	Consumer 36	2610.00		2612.00	2.00	1	2.00
	Consumer 37	5699.00		5699.00	0.00	1	0.00
	Consumer 38	0.00	Defective meter	0.00	3.00	1	3.00
	Consumer 39	4301.00		4303.00	2.00	1	2.00
	Consumer 40	2519.00		2521.00	2.00	1	2.00
	Consumer 41	0.00	Locked	0.00	0.00	1	0.00
	Consumer 42	4873.00		4874.00	1.00	1	1.00
	Consumer 43	6065.00		6068.00	3.00	1	3.00
	Consumer 44	8106.00		8109.00	3.00	1	3.00
	Consumer 45	8104.00		8109.00	5.00	1	5.00
	Consumer 46	1826.00		1835.00	9.00	1	9.00
	Consumer 47	1000.00		1001.00	1.00	1	1.00
	Consumer 48	5126.00		5131.00	5.00	1	5.00
	Consumer 49	36.00		39.00	3.00	1	3.00
	Consumer 50	3362.00		3365.00	3.00	1	3.00
	Consumer 51	6860.00		6861.00	1.00	1	1.00
	Consumer 52	2381.00		2382.00	1.00	1	1.00
	Consumer 53	212.00		214.00	2.00	1	2.00
	Consumer 54	991.00		995.00	4.00	1	4.00
	Consumer 55	34.00		36.00	2.00	1	2.00
	Consumer 56	3508.00		3510.00	2.00	1	2.00
	Consumer 57	9053.00		9055.00	2.00	1	2.00
	Consumer 58	8941.00		8945.00	4.00	1	4.00
	Consumer 59	2877.00		2881.00	4.00	1	4.00
	Consumer 60	5399.00		5402.00	3.00	1	3.00
	Consumer 61	5119.00		5122.00	3.00	1	3.00
	Consumer 62	11133.00		11135.00	2.00	1	2.00
	Consumer 63	8986.00		8988.00	2.00	1	2.00
	Consumer 64	2662.00		2665.00	3.00	1	3.00
	Consumer 65	2850.00		2853.00	3.00	1	3.00
	Consumer 66	1914.00		1917.00	3.00	1	3.00
	Consumer 67	2289.00		2293.00	4.00	1	4.00
	Consumer 68	960.00		965.00	5.00	1	5.00

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption
	Consumer 69	8263.00		8265.00	2.00	1	2.00
	Consumer 70	12386.00		12390.00	4.00	1	4.00
	Consumer 71	6949.00		6955.00	6.00	1	6.00
	Consumer 72	1187.00		1190.00	3.00	1	3.00
	Consumer 73	2297.00		2300.00	3.00	1	3.00
	Consumer 74	8142.00		8144.00	2.00	1	2.00
	Consumer 75	2030.00		2031.00	1.00	1	1.00
	Consumer 76	2966.00		2973.00	7.00	1	7.00
	Consumer 77	2730.00		2732.00	2.00	1	2.00
	Consumer 78	0.00	Locked	0.00	0.00	1	0.00
	Consumer 79	4584.00		4586.00	2.00	1	2.00
	Consumer 80	845.00		847.00	2.00	1	2.00
	Consumer 81	5301.00		5305.00	4.00	1	4.00
	Consumer 82	6178.00		6182.00	4.00	1	4.00
	Consumer 83	1706.00		1709.00	3.00	1	3.00
	Consumer 84	2461.00		2463.00	2.00	1	2.00
	Consumer 85	1592.00		1594.00	2.00	1	2.00
	Consumer 86	1.00	Defective meter	1.00	3.00	1	3.00
	Consumer 87	0.00	Locked	0.00	0.00	1	0.00
	Consumer 88	4811.00		4813.00	2.00	1	2.00
	Consumer 89	103.00		110.00	7.00	1	7.00
	Consumer 90	1487.00		1489.00	2.00	1	2.00
	Consumer 91	9870.00		9872.00	2.00	1	2.00
					277.00		**277.00**

Date	Location	Type	Consumption (kWh)	Energy loss (%)
27.8.2012	Barmer city	Domestic	135	**13.33%**

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
27.8.2012	Consumer 1	869.00		871.00	2.00	1.00	2.00
	Consumer 2	222.00		224.00	2.00	1.00	2.00
	Consumer 3	288.00		289.00	1.00	1.00	1.00
	Consumer 4	86.00		91.00	5.00	1.00	5.00
	Consumer 5	908.00		913.00	5.00	1.00	5.00
	Consumer 6	44.00		46.00	2.00	1.00	2.00
	Consumer 7	94.00		97.00	3.00	1.00	3.00
	Consumer 8	29.00		33.00	4.00	1.00	4.00
	Consumer 9	225.00		229.00	4.00	1.00	4.00
	Consumer 10	118.00		122.00	4.00	1.00	4.00
	Consumer 11	311.00		312.00	1.00	1.00	1.00
	Consumer 12	213.00		215.00	2.00	1.00	2.00
	Consumer 13	377.00		380.00	3.00	1.00	3.00
	Consumer 14	222.00		226.00	4.00	1.00	4.00
	Consumer 15	283.00		287.00	4.00	1.00	4.00
	Consumer 16	190.00		195.00	5.00	1.00	5.00
	Consumer 17	883.00		883.00	0.00	1.00	0.00
	Consumer 18	633.00		635.00	2.00	1.00	2.00
	Consumer 19	91.00		93.00	2.00	1.00	2.00
	Consumer 20	72.00		73.00	1.00	1.00	1.00
	Consumer 21	47.00		47.00	0.00	1.00	0.00
	Consumer 22	86.00		88.00	2.00	1.00	2.00

Date	Consumer	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	Consumer 23	67.00		71.00	4.00	1.00	4.00
	Consumer 24	65.00		68.00	3.00	1.00	3.00
	Consumer 25	508.00		512.00	4.00	1.00	4.00
	Consumer 26	739.00		743.00	4.00	1.00	4.00
	Consumer 27	277.00		278.00	1.00	1.00	1.00
	Consumer 28	123.00		128.00	5.00	1.00	5.00
	Consumer 29	138.00		138.00	0.00	1.00	0.00
	Consumer 30	238.00		243.00	5.00	1.00	5.00
	Consumer 31	340.00		343.00	3.00	1.00	3.00
	Consumer 32	880.00		881.00	1.00	1.00	1.00
	Consumer 33	388.00		388.00	0.00	1.00	0.00
	Consumer 34	36.00		37.00	1.00	1.00	1.00
	Consumer 35	196.00		198.00	2.00	1.00	2.00
	Consumer 36	103.00		106.00	3.00	1.00	3.00
	Consumer 37	203.00		206.00	3.00	1.00	3.00
	Consumer 38	484.00		487.00	3.00	1.00	3.00
	Consumer 39	730.00		732.00	2.00	1.00	2.00
	Consumer 40	383.00		387.00	4.00	1.00	4.00
	Consumer 41	309.00		310.00	1.00	1.00	1.00
	Consumer 42	48.00		51.00	3.00	1.00	3.00
	Consumer 43	48.00		51.00	3.00	1.00	3.00
	Consumer 44	490.00		492.00	2.00	1.00	2.00
	Consumer 45	584.00		586.00	2.00	1.00	2.00
					117.00		**117.00**

Date	Location	Type	Consumption (kWh)	Energy loss (%)
28.8.2012	Barmer city	Domestic	261	**16.86%**

Date	Meter No.	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
28.8.2012	880081	0.00	Defective meter	0.00	0.00	1.00	0.00
	982795	369.00		371.00	2.00	1.00	2.00
	941123	985.00		988.00	3.00	1.00	3.00
	123345	328.00		330.00	2.00	1.00	2.00
	234456	394.00		397.00	3.00	1.00	3.00
	897510	790.00		793.00	3.00	1.00	3.00
	121415	80.00		83.00	3.00	1.00	3.00
	161718	849.00		853.00	4.00	1.00	4.00
	202123	671.00		673.00	2.00	1.00	2.00
	313233	842.00		846.00	4.00	1.00	4.00
	454647	232.00		237.00	5.00	1.00	5.00
	585960	141.00		142.00	1.00	1.00	1.00
	626364	99.00		103.00	4.00	1.00	4.00
	656667	125.00		126.00	1.00	1.00	1.00
	787472	757.00		759.00	2.00	1.00	2.00
	888990	572.00		575.00	3.00	1.00	3.00
	999900	486.00		489.00	3.00	1.00	3.00
	101293	983.00		984.00	1.00	1.00	1.00
	209456	787.00		790.00	3.00	1.00	3.00
	298374	436.00		437.00	1.00	1.00	1.00
	650192	327.00		328.00	1.00	1.00	1.00
	837465	125.00		127.00	2.00	1.00	2.00

Date	Meter No.	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	8900100	597.00		601.00	4.00	1.00	4.00
	200300	274.00		278.00	4.00	1.00	4.00
	456780	0.00	Defective meter	0.00	0.00	1.00	0.00
	501468	452.00		455.00	3.00	1.00	3.00
	601293	946.00		947.00	1.00	1.00	1.00
	4890112	629.00		631.00	2.00	1.00	2.00
	667712	983.00		986.00	3.00	1.00	3.00
	330099	668.00		671.00	3.00	1.00	3.00
	495867	670.00		672.00	2.00	1.00	2.00
	983254	434.00		438.00	4.00	1.00	4.00
	331098	212.00		215.00	3.00	1.00	3.00
	829010	537.00		542.00	5.00	1.00	5.00
	662030	638.00		642.00	4.00	1.00	4.00
	141719	876.00		880.00	4.00	1.00	4.00
	246801	571.00		574.00	3.00	1.00	3.00
	131516	321.00		325.00	4.00	1.00	4.00
	242729	711.00		714.00	3.00	1.00	3.00
	353739	890.00		894.00	4.00	1.00	4.00
	900011	887.00		890.00	3.00	1.00	3.00
	600001	543.00		546.00	3.00	1.00	3.00
	792001	411.00		413.00	2.00	1.00	2.00
	543469	94.00		97.00	3.00	1.00	3.00
	674730	656.00		661.00	5.00	1.00	5.00
	909123	766.00		770.00	4.00	1.00	4.00
	436576	431.00		432.00	1.00	1.00	1.00
	789010	724.00		726.00	2.00	1.00	2.00
	464780	2143.00		2145.00	2.00	1.00	2.00

Date	Meter No.	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	102030	979.00		980.00	1.00	1.00	1.00
	908070	86.00		91.00	5.00	1.00	5.00
	650192	331.00		335.00	4.00	1.00	4.00
	435363	214.00		216.00	2.00	1.00	2.00
	565760	254.00		255.00	1.00	1.00	1.00
	636576	545.00		548.00	3.00	1.00	3.00
	898280	451.00		453.00	2.00	1.00	2.00
	109012	375.00		378.00	3.00	1.00	3.00
	100123	464.00		464.00	0.00	1.00	0.00
		0.00	Closed	0.00	0.00	1.00	0.00
	708910	894.00		895.00	1.00	1.00	1.00
	6783450	222.00		227.00	5.00	1.00	5.00
	2671900	656.00		659.00	3.00	1.00	3.00
	446789	51.00		55.00	4.00	1.00	4.00
	103366	55.00		57.00	2.00	1.00	2.00
	899012	499.00		501.00	2.00	1.00	2.00
	267980	528.00		530.00	2.00	1.00	2.00
	135791	687.00		688.00	1.00	1.00	1.00
	246802	485.00		490.00	5.00	1.00	5.00
	975310	620.00		622.00	2.00	1.00	2.00
	864208	908.00		912.00	4.00	1.00	4.00
	393031	797.00		798.00	1.00	1.00	1.00
	890123	685.00		685.00	0.00	1.00	0.00
	147036	484.00		487.00	3.00	1.00	3.00
	369258	361.00		364.00	3.00	1.00	3.00
	581470	355.00		356.00	1.00	1.00	1.00
	703690	421.00		425.00	4.00	1.00	4.00

Date	Meter No.	1st read	Remarks	2nd read	Difference	MF	Consumption (kWh)
	925814	876.00		880.00	4.00	1.00	4.00
	258147	0.00	Closed	0.00	0.00	1.00	0.00
	470258	908.00		912.00	4.00	1.00	4.00
	692581	699.00		700.00	1.00	1.00	1.00
	814703	245.00		245.00	0.00	1.00	0.00
	185296	213.00		214.00	1.00	1.00	1.00
	482604	177.00		179.00	2.00	1.00	2.00
	826048	326.00		327.00	1.00	1.00	1.00
	937159	384.00		386.00	2.00	1.00	2.00
	135937	87.00		91.00	4.00	1.00	4.00
	987068	476.00		476.00	0.00	1.00	0.00
	Total				**217.00**		**217.00**

Date	Location	Type	Consumption (kWh)	Energy loss (%)
29.8.2012	Barmer city	Domestic	138	**17.75%**

Date	Consumer	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
29.8.2012	Consumer 1	3227.00		3230.00	3.00	1	3.00
	Consumer 2	13626.00		13628.00	2.00	1	2.00
	Consumer 3	1437.00		1440.00	3.00	1	3.00
	Consumer 4	9770.00		9772.00	2.00	1	2.00
	Consumer 5	3832.00		3835.00	3.00	1	3.00
	Consumer 6	0.00	Defective meter	0.00	0.00	1	0.00
	Consumer 7	1347.00		1348.00	1.00	1	1.00
	Consumer 8	44191.00		44194.00	3.00	1	3.00
	Consumer 9	66749.00		66752.00	3.00	1	3.00
	Consumer 10	22373.00		22376.00	3.00	1	3.00
	Consumer 11	19877.00		19880.00	3.00	1	3.00
	Consumer 12	6618.00		6621.00	3.00	1	3.00
	Consumer 13	3735.00		3739.00	4.00	1	4.00
	Consumer 14	15700.00		15702.00	2.00	1	2.00
	Consumer 15	23456.00		23459.00	3.00	1	3.00
	Consumer 16	0.00	Closed	0.00	0.00	1	0.00
	Consumer 17	83483.00		83486.00	3.00	1	3.00
	Consumer 18	23108.00		23110.00	2.00	1	2.00
	Consumer 19	10595.00		10597.00	2.00	1	2.00
	Consumer 20	7620.00		7623.00	3.00	1	3.00
	Consumer 21	3870.00		3873.00	3.00	1	3.00
	Consumer 22	1822.00		1824.00	2.00	1	2.00
	Consumer 23	1115.00		1118.00	3.00	1	3.00

Date	Consumer	1st read (kWh)	Remarks	2nd read (kWh)	Difference (kWh)	M.F.	Consumption (kWh)
	Consumer 24	2572.00		2575.00	3.00	1	3.00
	Consumer 25	3645.00		3649.00	4.00	1	4.00
	Consumer 26	7520.00		7522.00	2.00	1	2.00
	Consumer 27	13228.00		13230.00	2.00	1	2.00
	Consumer 28	0.00	Meter defective	0.00	0.00	1	0.00
	Consumer 29	0.00	Meter defective	0.00	0.00	1	0.00
	Consumer 30	2945.00		2947.00	2.00	1	2.00
	Consumer 31	38940.00		38943.00	3.00	1	3.00
	Consumer 32	1305.00		1307.50	2.50	1	2.50
	Consumer 33	1545.00		1546.00	1.00	1	1.00
	Consumer 34		Closed		0.00	1	0.00
	Consumer 35	1000.00		1002.00	2.00	1	2.00
	Consumer 36	2690.00		2693.00	3.00	1	3.00
	Consumer 37	4055.00		4058.00	3.00	1	3.00
	Consumer 38	0.00		3.00	3.00	1	3.00
	Consumer 39	2407.00		2412.00	5.00	1	5.00
	Consumer 40	823.00		829.00	6.00	1	6.00
	Consumer 41	2660.00		2665.00	5.00	1	5.00
	Consumer 42	321.00		322.00	1.00	1	1.00
	Consumer 43	9584.00		9587.00	3.00	1	3.00
	Consumer 44	218.00		219.00	1.00	1	1.00
	Consumer 45	9087.00		9090.00	3.00	1	3.00
	Consumer 46	3292.00		3295.00	3.00	1	3.00
	Total						**113.50**

4. Annexure IV: Computation of component wise commercial loss

4.1 Bharatpur

Computation of commercial loss due to deficient meters and extrapolating the same on the circle

Particulars	1 month consumption as per field studies (Units)	1 month consumption as per the DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM due to deficient metering (MU)	Energy to be billed as per the field study due to deficient metering (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (M1)**	**3 (M2)**	**4 (M3=(M1-M2)/M1))**	**5 (M4)**	**6 (M5=((M4/ (1-M3))**	**7 (M6=M5 - M4)**	**8 (M7 = M6/ energy input)**
Loss due to deficient metering	211.09	193.50	9.09%	60.12	66.13	6.01	(6.01/326.52) = 1.84%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	17846818	1.80	Billing due to deficient metering	2.00
Consumer 2	9612866	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 3	7707381	1.60	Billing due to deficient metering	2.00
Consumer 4	87302026	1.60	Billing due to deficient metering	2.00
Consumer 5	8397871	1.60	Billing due to deficient metering	1.50
Consumer 6	6022214	2.00	Billing due to deficient metering	1.20
Consumer 7	7708930	1.60	Billing due to deficient metering	1.50
Consumer 8	428350	1.60	Billing due to deficient metering	1.50
Consumer 9	9601041	1.50	Billing due to deficient metering	1.50
Consumer 10	7707987	1.70	Billing due to deficient metering	1.50
Consumer 11	9712913	1.80	Billing due to deficient metering	1.50
Consumer 12	947208	2.10	Billing due to deficient metering	2.00
Consumer 13	8507273	2.20	Billing due to deficient metering	2.00
Consumer 14	7707711	2.00	Billing due to deficient metering	1.50
Consumer 15	7709243	1.60	Billing due to deficient metering	1.50
Consumer 16	7709009	1.59	Billing due to deficient metering	1.50
Consumer 17	9732001	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 18	9705397	1.60	Billing due to deficient metering	1.50
Consumer 19	7708928	1.70	Billing due to deficient metering	1.50
Consumer 20	8397304	2.00	Billing due to deficient metering	2.00
Consumer 21	8423495	1.70	Billing due to deficient metering	1.50
Consumer 22	8399376	1.60	Billing due to deficient metering	1.20
Consumer 23	9713191	1.60	Billing due to deficient metering	1.50
Consumer 24	9612978	1.60	Billing due to deficient metering	1.50
Consumer 25	8396978	1.80	Billing due to deficient metering	1.20
Consumer 26	8397302	1.80	Billing due to deficient metering	1.20
Consumer 27	8218294	1.70	Billing due to deficient metering	1.20
Consumer 28	8219365	1.60	Billing due to deficient metering	1.20
Consumer 29	8218064	1.60	Billing due to deficient metering	1.20
Consumer 30	Not visible	1.60	Billing due to deficient metering	1.20
Consumer 31	7708668	1.60	Billing due to deficient metering	1.50
Consumer 32	18071918	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 33	8219209	1.60	Billing due to deficient metering	1.50
Consumer 34	8397315	1.60	Billing due to deficient metering	1.20
Consumer 35	8399455	1.60	Billing due to deficient metering	1.20
Consumer 36	9491746	1.60	Billing due to deficient metering	1.50
Consumer 37	8731162	1.60	Billing due to deficient metering	1.50
Consumer 38	18072754	1.60	Billing due to deficient metering	1.50
Consumer 39	111760	1.60	Billing due to deficient metering	1.50
Consumer 40	7701169	1.60	Billing due to deficient metering	1.50
Consumer 41	110437	1.60	Billing due to deficient metering	1.50
Consumer 42	8544658	1.60	Billing due to deficient metering	1.50
Consumer 43	6932321	1.60	Billing due to deficient metering	1.50
Consumer 44	728484	1.60	Billing due to deficient metering	1.50
Consumer 45	587895	1.60	Billing due to deficient metering	1.50
Consumer 46	23540	1.60	Billing due to deficient metering	1.50
Consumer 47	5295	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 48	611743	1.60	Billing due to deficient metering	1.50
Consumer 49	8218462	1.60	Billing due to deficient metering	1.50
Consumer 50	377210	1.60	Billing due to deficient metering	1.50
Consumer 51	8541612	1.60	Billing due to deficient metering	1.50
Consumer 52	9612911	1.60	Billing due to deficient metering	1.50
Consumer 53	7713843	1.60	Billing due to deficient metering	1.50
Consumer 54	9706291	1.60	Billing due to deficient metering	1.50
Consumer 55	524344	1.60	Billing due to deficient metering	1.50
Consumer 56	192471	1.60	Billing due to deficient metering	1.50
Consumer 57	400169	1.60	Billing due to deficient metering	1.50
Consumer 58	9601033	1.60	Billing due to deficient metering	1.50
Consumer 59	9712970	1.60	Billing due to deficient metering	1.50
Consumer 60	8543620	1.60	Billing due to deficient metering	1.50
Consumer 61	9709009	1.60	Billing due to deficient metering	1.50
Consumer 62	23558	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 63	166630	1.60	Billing due to deficient metering	1.50
Consumer 64	Not visible	1.60	Billing due to deficient metering	1.50
Consumer 65	15060272	1.60	Billing due to deficient metering	1.50
Consumer 66	866247	1.60	Billing due to deficient metering	1.50
Consumer 67	8218952	1.60	Billing due to deficient metering	1.50
Consumer 68	220069	1.60	Billing due to deficient metering	1.50
Consumer 69	7707708	1.60	Billing due to deficient metering	1.50
Consumer 70	533117	1.60	Billing due to deficient metering	1.50
Consumer 71	17842662	1.60	Billing due to deficient metering	1.50
Consumer 72	18072150	1.60	Billing due to deficient metering	1.50
Consumer 73	17939686	1.60	Billing due to deficient metering	1.50
Consumer 74	6196430	1.60	Billing due to deficient metering	1.50
Consumer 75	9612457	1.60	Billing due to deficient metering	1.50
Consumer 76	7708979	1.60	Billing due to deficient metering	1.50
Consumer 77	7707575	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 78	8549889	1.60	Billing due to deficient metering	1.50
Consumer 79	8544284	1.60	Billing due to deficient metering	1.50
Consumer 80	407093	1.60	Billing due to deficient metering	1.50
Consumer 81	517903	1.60	Billing due to deficient metering	1.50
Consumer 82	6933142	1.60	Billing due to deficient metering	1.50
Consumer 83	5956338	1.60	Billing due to deficient metering	1.50
Consumer 84	424800	1.60	Billing due to deficient metering	1.50
Consumer 85	620607	1.60	Billing due to deficient metering	1.50
Consumer 86	152152	1.60	Billing due to deficient metering	1.50
Consumer 87	17938702	1.60	Billing due to deficient metering	1.50
Consumer 88	211063	1.60	Billing due to deficient metering	1.50
Consumer 89	507819	1.60	Billing due to deficient metering	1.50
Consumer 90	702297	1.60	Billing due to deficient metering	1.50
Consumer 91	940719	1.60	Billing due to deficient metering	1.50
Consumer 92	8520919	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 93	334584	1.60	Billing due to deficient metering	1.50
Consumer 94	524071	1.60	Billing due to deficient metering	1.50
Consumer 95	868146	1.50	Billing due to deficient metering	1.50
Consumer 96	Not visible	1.70	Billing due to deficient metering	1.50
Consumer 97	128956	1.70	Billing due to deficient metering	1.50
Consumer 98	842920	1.80	Billing due to deficient metering	1.50
Consumer 99	18194979	1.60	Billing due to deficient metering	1.50
Consumer 100	217966	1.60	Billing due to deficient metering	1.50
Consumer 101	868143	1.60	Billing due to deficient metering	1.50
Consumer 102	8217997	1.60	Billing due to deficient metering	1.50
Consumer 103	7709629	1.70	Billing due to deficient metering	1.50
Consumer 104	283975	1.60	Billing due to deficient metering	1.50
Consumer 105	799518	1.60	Billing due to deficient metering	1.50
Consumer 106	8219953	1.60	Billing due to deficient metering	1.50
Consumer 107	302042	1.70	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 108	396828	1.60	Billing due to deficient metering	1.50
Consumer 109	426956	1.70	Billing due to deficient metering	1.50
Consumer 110	517489	1.70	Billing due to deficient metering	1.50
Consumer 111	24857	1.60	Billing due to deficient metering	1.50
Consumer 112	910515	1.60	Billing due to deficient metering	1.50
Consumer 113	7459591	1.70	Billing due to deficient metering	1.50
Consumer 114	428556	1.60	Billing due to deficient metering	1.50
Consumer 115	507572	1.60	Billing due to deficient metering	1.50
Consumer 116	582505	1.60	Billing due to deficient metering	1.50
Consumer 117	622348	1.70	Billing due to deficient metering	1.50
Consumer 118	427995	1.60	Billing due to deficient metering	1.50
Consumer 119	522943	1.60	Billing due to deficient metering	1.50
Consumer 120	428930	1.50	Billing due to deficient metering	1.50
Consumer 121	841147	1.60	Billing due to deficient metering	1.50
Consumer 122	522628	1.60	Billing due to deficient metering	1.50

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 123	18953	2.00	Billing due to deficient metering	1.50
Consumer 124	101837	1.70	Billing due to deficient metering	1.50
Consumer 125	253482	1.60	Billing due to deficient metering	1.50
Consumer 126	517782	1.60	Billing due to deficient metering	1.50
Consumer 127	731836	1.60	Billing due to deficient metering	1.50
Consumer 128	8545931	1.60	Billing due to deficient metering	1.50
Consumer 129	5053	1.60	Billing due to deficient metering	1.50
Total		**211.09**		**193.50**

Computation of commercial loss due to billing inefficiency and extrapolating the same on the circle

Particulars	1 month consumption as per Field studies (Units)	1 month consumption as per DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM (MU)	Energy billed as per the field study (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (B1)**	**3 (B2)**	**4 (B3 = (B1-B2)/B1))**	**5 (B4)**	**6 (B5=B4/ (1-B3))**	**7 (B6=B5 - B4)**	**8 (B7=B6 /energy input)**
Loss due to billing inefficiency	25.20	27.90	10.71%	4.01	4.49	0.48	(0.48/ 326.52) = 0.15%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	7707094	1.50	Provisional billing due to billing inefficiency	1.50
Consumer 2	463417	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 3	17936519	1.50	Provisional billing due to billing inefficiency	1.50
Consumer 4	17937783	1.50	Provisional billing due to billing inefficiency	1.50
Consumer 5	49739	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 6	730753	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 7	6023506	1.00	Provisional billing due to billing inefficiency	1.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 8	204732	2.00	Provisional billing due to billing inefficiency	1.50
Consumer 9	195464	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 10	427567	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 11	5102	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 12	397141	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 13	2228	1.50	Provisional billing due to billing inefficiency	1.00
Consumer 14	171575	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 15	490013	1.50	Provisional billing due to billing inefficiency	1.00
Consumer 16	1136	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 17	96436	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 18	81501	1.40	Provisional billing due to billing inefficiency	1.00
Consumer 19	705006	1.50	Provisional billing due to billing inefficiency	1.10
Consumer 20	429620	1.50	Provisional billing due to billing inefficiency	1.10
Consumer 21	366756	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 22	622090	1.00	Provisional billing due to billing inefficiency	1.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Total		**27.90**		**25.20**

4.2 Nagaur

Computation of commercial loss due to deficient meters and extrapolating the same on the circle

Particulars	1 month consumption as per field studies (Units)	1 month consumption as per the DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM due to deficient metering (MU)	Energy to be billed as per the field study due to deficient metering (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (M1)**	**3 (M2)**	**4 (M3=(M1-M2)/M1))**	**5 (M4)**	**6 (M5=((M4/ (1-M3))**	**7 (M6=M5 - M4)**	**8 (M7 = M6/ energy input)**
Loss due to deficient metering	38.00	33.93	10.71%	50.15	56.17	6.02	(6.02/769.24) = 0.78%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	Not visible	2.00	Billing due to deficient metering	1.00
Consumer 2		2.00	Billing due to deficient metering	2.00
Consumer 3	Not visible	2.00	Billing due to deficient metering	1.50
Consumer 4	Not visible	2.00	Billing due to deficient metering	1.60

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 5	Not visible	2.00	Billing due to deficient metering	2.00
Consumer 6	Not visible	2.00	Billing due to deficient metering	2.00
Consumer 7	575968	2.00	Billing due to deficient metering	2.00
Consumer 8	Not visible	2.00	Billing due to deficient metering	1.50
Consumer 9	Not visible	2.00	Billing due to deficient metering	2.00
Consumer 10	Not visible	2.00	Billing due to deficient metering	2.00
Consumer 11	9197957	2.00	Billing due to deficient metering	1.50
Consumer 12	9421384	2.00	Billing due to deficient metering	2.00
Consumer 13	5947853	2.00	Billing due to deficient metering	2.00
Consumer 14	9416373	2.00	Billing due to deficient metering	1.90
Consumer 15	713012	2.00	Billing due to deficient metering	1.50
Consumer 16	9686694	2.00	Billing due to deficient metering	2.00
Consumer 17	618267	2.00	Billing due to deficient metering	1.60
Consumer 18	9686197	2.00	Billing due to deficient metering	1.90
Consumer 19	414552	2.00	Billing due to deficient metering	1.93

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Total		**38.00**		**33.93**

Computation of commercial loss due to billing inefficiency and extrapolating the same on the circle

Particulars	1 month consumption as per Field studies (Units)	1 month consumption as per DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM (MU)	Energy billed as per the field study (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	2 (B1)	3 (B2)	4 (B3 = (B1-B2)/B1))	5 (B4)	6 (B5=B4/ (1-B3))	7 (B6=B5 - B4)	8 (B7=B6 /energy input)
Loss due to billing inefficiency	21.90	19.73	9.91%	81.08	90.00	8.92	(8.92/769.24) = 1.16%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	910425	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 2	11190023	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 3	884615	1.40	Provisional billing due to billing inefficiency	0.50
Consumer 4	889276	1.20	Provisional billing due to billing inefficiency	1.00
Consumer 5	11794050	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 6	11792592	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 7	5561174	0.60	Provisional billing due to billing inefficiency	0.60

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 8	5569241	0.90	Provisional billing due to billing inefficiency	0.90
Consumer 9	5567006	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 10	574209	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 11	574218	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 12	529472	0.70	Provisional billing due to billing inefficiency	0.70
Consumer 13	529472	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 14	374210	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 15	3217711	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 16	3219192	0.20	Provisional billing due to billing inefficiency	0.20
Consumer 17	3440240	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 18	3251006	0.80	Provisional billing due to billing inefficiency	0.50
Consumer 19	4902248	0.10	Provisional billing due to billing inefficiency	0.10
Consumer 20	6467299	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 21	342000	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 22	4657411	0.20	Provisional billing due to billing inefficiency	0.20

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 23	7174247	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 24	7170022	0.10	Provisional billing due to billing inefficiency	0.10
Consumer 25	3235559	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 26	445023	0.60	Provisional billing due to billing inefficiency	0.60
Consumer 27	210007	0.70	Provisional billing due to billing inefficiency	0.70
Consumer 28	998509	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 29	7700099	0.30	Provisional billing due to billing inefficiency	0.30
Consumer 30	348032	0.70	Provisional billing due to billing inefficiency	0.70
Consumer 31	894493	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 32	955766	0.50	Provisional billing due to billing inefficiency	0.40
Consumer 33	4232455	0.60	Provisional billing due to billing inefficiency	0.60
Consumer 34	269670	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 35	5161658	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 36	352922	0.30	Provisional billing due to billing inefficiency	0.30

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 37	212259	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 38	344912	1.30	Provisional billing due to billing inefficiency	1.00
Consumer 39	429682	0.40	Provisional billing due to billing inefficiency	0.40
Consumer 40	118052	0.50	Provisional billing due to billing inefficiency	0.50
Consumer 41	223729	1.30	Provisional billing due to billing inefficiency	1.00
Consumer 42	224290	0.40	Provisional billing due to billing inefficiency	0.40
Total		**21.90**		**19.73**

4.3 Churu

Computation of commercial loss due to deficient meters and extrapolating the same on the circle

Particulars	1 month consumption as per field studies (Units)	1 month consumption as per the DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM due to deficient metering (MU)	Energy to be billed as per the field study due to deficient metering (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (M1)**	**3 (M2)**	**4 (M3=(M1-M2)/M1))**	**5 (M4)**	**6 (M5=((M4/ (1-M3))**	**7 (M6=M5 - M4)**	**8 (M7 = M6/ energy input)**
Loss due to deficient metering	1654.20	1438.70	13.04%	67.81	77.98	10.17	(10.17/ 484.81) = 2.10%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	9416373	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 2	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 3	8459114	1.40	Provisional billing due to billing inefficiency	1.00
Consumer 4	5810752	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 5	2458692	3.10	Provisional billing due to billing inefficiency	2.00
Consumer 6	1346259	2.30	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 7	1054342	2.60	Provisional billing due to billing inefficiency	2.00
Consumer 8	775697	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 9	5810759	3.90	Provisional billing due to billing inefficiency	3.00
Consumer 10	8066468	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 11	3469134	3.80	Provisional billing due to billing inefficiency	2.00
Consumer 12	6689475	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 13	5810777	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 14	5810767	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 15	582691	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 16	5744839	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 17	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 18	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 19	166107	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 20	5810780	5.00	Provisional billing due to billing inefficiency	1.00
Consumer 21	1006865	3.10	Provisional billing due to billing inefficiency	1.00
Consumer 22	5744614	2.80	Provisional billing due to billing inefficiency	1.00
Consumer 23	5863629	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 24	5568758	4.00	Provisional billing due to billing inefficiency	1.00
Consumer 25	9684063	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 26	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 27	706075	6.70	Provisional billing due to billing inefficiency	2.00
Consumer 28	9686122	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 29	5810764	4.80	Provisional billing due to billing inefficiency	2.00
Consumer 30	1007409	2.50	Provisional billing due to billing inefficiency	2.00
Consumer 31	7267509	2.90	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 32	6685334	4.30	Provisional billing due to billing inefficiency	2.00
Consumer 33	705840	4.10	Provisional billing due to billing inefficiency	2.00
Consumer 34	59680	4.20	Provisional billing due to billing inefficiency	2.00
Consumer 35	1005154	4.80	Provisional billing due to billing inefficiency	2.00
Consumer 36	5810768	3.90	Provisional billing due to billing inefficiency	2.00
Consumer 37	513005	4.10	Provisional billing due to billing inefficiency	2.00
Consumer 38	168804	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 39	677579	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 40	58107651	8.00	Provisional billing due to billing inefficiency	2.00
Consumer 41	2797938	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 42	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 43	5810766	3.10	Provisional billing due to billing inefficiency	2.00
Consumer 44	18254850	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 45	5948742	3.10	Provisional billing due to billing inefficiency	2.00
Consumer 46	5185070	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 47	5154437	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 48	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 49	9183835	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 50	101-191 STP	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 51	5154106	3.10	Provisional billing due to billing inefficiency	2.00
Consumer 52	1057256	3.80	Provisional billing due to billing inefficiency	2.00
Consumer 53	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 54	5710908	4.20	Provisional billing due to billing inefficiency	2.00
Consumer 55	132969	1.90	Provisional billing due to billing inefficiency	1.00
Consumer 56	5154112	3.10	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 57	5154398	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 58	17893321	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 59	640940	2.60	Provisional billing due to billing inefficiency	1.00
Consumer 60	7269741	3.60	Provisional billing due to billing inefficiency	1.00
Consumer 61	160751	2.30	Provisional billing due to billing inefficiency	1.00
Consumer 62	566295	2.50	Provisional billing due to billing inefficiency	1.00
Consumer 63	1829979	4.20	Provisional billing due to billing inefficiency	1.00
Consumer 64	842148	4.20	Provisional billing due to billing inefficiency	1.00
Consumer 65	5871805	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 66	9682538	4.00	Provisional billing due to billing inefficiency	1.00
Consumer 67	LUM1007739	4.10	Provisional billing due to billing inefficiency	1.00
Consumer 68	1007968	2.50	Provisional billing due to billing inefficiency	1.00
Consumer 69	5870604	2.60	Provisional billing due to billing inefficiency	1.00
Consumer 70	775553	4.40	Provisional billing due to billing inefficiency	1.00
Consumer 71	60882	4.20	Provisional billing due to billing inefficiency	1.00
Consumer 72	5710915	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 73	3133158	2.10	Provisional billing due to billing inefficiency	1.00
Consumer 74	10045049	2.60	Provisional billing due to billing inefficiency	1.00
Consumer 75	1006568	1.90	Provisional billing due to billing inefficiency	1.00
Consumer 76	9716712	1.80	Provisional billing due to billing inefficiency	1.00
Consumer 77	9713476	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 78	909558	2.90	Provisional billing due to billing inefficiency	2.00
Consumer 79	5948710	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 80	5871816	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 81	604651	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 82	5949192	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 83	775539	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 84	5813622	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 85	284789	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 86	718210	0.70	Provisional billing due to billing inefficiency	0.70
Consumer 87	677064	0.80	Provisional billing due to billing inefficiency	0.80
Consumer 88	717870	0.60	Provisional billing due to billing inefficiency	0.60
Consumer 89	675459	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 90	6764188	4.10	Provisional billing due to billing inefficiency	4.10
Consumer 91	5079519	4.70	Provisional billing due to billing inefficiency	4.70
Consumer 92	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 93	9780519	4.80	Provisional billing due to billing inefficiency	4.80
Consumer 94	781226	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 95	9778868	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 96	17890928	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 97	6768797	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 98	587217	2.40	Provisional billing due to billing inefficiency	2.40
Consumer 99	740661	4.30	Provisional billing due to billing inefficiency	4.30
Consumer 100	483533	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 101	5743182	2.90	Provisional billing due to billing inefficiency	2.90
Consumer 102	5862638	4.40	Provisional billing due to billing inefficiency	4.40
Consumer 103	968821	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 104	5713656	4.50	Provisional billing due to billing inefficiency	4.50
Consumer 105	5949344	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 106	712056	5.10	Provisional billing due to billing inefficiency	5.10

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 107	5742835	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 108	707536	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 109	764043	5.90	Provisional billing due to billing inefficiency	5.90
Consumer 110	358618	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 111	781173	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 112	618010	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 113	9198910	2.50	Provisional billing due to billing inefficiency	2.50
Consumer 114	6689762	4.40	Provisional billing due to billing inefficiency	4.40
Consumer 115	9778828	3.60	Provisional billing due to billing inefficiency	3.60
Consumer 116	TN-1667	3.90	Provisional billing due to billing inefficiency	3.90
Consumer 117	357354	3.30	Provisional billing due to billing inefficiency	3.30
Consumer 118	6685592	3.20	Provisional billing due to billing inefficiency	3.20
Consumer 119	717070	3.50	Provisional billing due to billing inefficiency	3.50
Consumer 120	1825272	2.60	Provisional billing due to billing inefficiency	2.60
Consumer 121	5743280	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 122	9625415	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 123	5863365	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 124	17035812	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 125	9198909	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 126	358620	6.20	Provisional billing due to billing inefficiency	6.20
Consumer 127	7266997	3.50	Provisional billing due to billing inefficiency	3.50
Consumer 128	3065506	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 129	6756263	4.50	Provisional billing due to billing inefficiency	4.50
Consumer 130	858153	5.10	Provisional billing due to billing inefficiency	5.10
Consumer 131	482016	2.70	Provisional billing due to billing inefficiency	2.70

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 132	676076	2.60	Provisional billing due to billing inefficiency	2.60
Consumer 133	158685	5.60	Provisional billing due to billing inefficiency	5.60
Consumer 134	18255004	5.70	Provisional billing due to billing inefficiency	5.70
Consumer 135	CML9217070	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 136	8341783	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 137	8346783	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 138	9217070	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 139	705626	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 140	17893324	3.60	Provisional billing due to billing inefficiency	3.60
Consumer 141	9803988	5.60	Provisional billing due to billing inefficiency	5.60
Consumer 142	9671729	4.30	Provisional billing due to billing inefficiency	4.30
Consumer 143	7546323	4.90	Provisional billing due to billing inefficiency	4.90
Consumer 144	675460	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 145	18252425	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 146	285589	3.60	Provisional billing due to billing inefficiency	3.60
Consumer 147	18255684	5.90	Provisional billing due to billing inefficiency	5.90
Consumer 148	17038593	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 149	6637330	5.20	Provisional billing due to billing inefficiency	5.20
Consumer 150	858696	3.30	Provisional billing due to billing inefficiency	3.30
Consumer 151	9217070	2.90	Provisional billing due to billing inefficiency	2.90
Consumer 152	618002	5.10	Provisional billing due to billing inefficiency	5.10
Consumer 153	17890171	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 154	9771797	2.40	Provisional billing due to billing inefficiency	2.40
Consumer 155	709227	4.70	Provisional billing due to billing inefficiency	4.70
Consumer 156	6754973	3.30	Provisional billing due to billing inefficiency	3.30

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 157	768724	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 158	7326264	3.90	Provisional billing due to billing inefficiency	3.90
Consumer 159	857416	2.80	Provisional billing due to billing inefficiency	2.80
Consumer 160	764751	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 161	10154415	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 162	10474312	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 163	5238063	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 164	5338071	2.20	Provisional billing due to billing inefficiency	2.20
Consumer 165	5438910	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 166	5811049	3.60	Provisional billing due to billing inefficiency	3.60
Consumer 167	10154418	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 168	5948712	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 169	1788899	3.90	Provisional billing due to billing inefficiency	3.90
Consumer 170	58133317	3.20	Provisional billing due to billing inefficiency	3.20
Consumer 171	677538	4.10	Provisional billing due to billing inefficiency	4.10
Consumer 172	5569887	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 173	6764152	5.50	Provisional billing due to billing inefficiency	5.50
Consumer 174	17267499	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 175	17893084	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 176	58133981	2.10	Provisional billing due to billing inefficiency	2.10
Consumer 177	781172	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 178	17893327	6.10	Provisional billing due to billing inefficiency	6.10
Consumer 179	7326589	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 180	9684144	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 181	5814330	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 182	5813188	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 183	7211985	4.90	Provisional billing due to billing inefficiency	4.90
Consumer 184	484346	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 185	483400	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 186	5949880	4.50	Provisional billing due to billing inefficiency	4.50
Consumer 187	5813388	5.20	Provisional billing due to billing inefficiency	5.20
Consumer 188	7326406	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 189	7321471	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 190	5813332	3.90	Provisional billing due to billing inefficiency	3.90
Consumer 191	6768796	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 192	7170367	5.80	Provisional billing due to billing inefficiency	5.80
Consumer 193	5813127	5.10	Provisional billing due to billing inefficiency	5.10
Consumer 194	205046	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 195	586150	5.40	Provisional billing due to billing inefficiency	5.40
Consumer 196	7362349	4.90	Provisional billing due to billing inefficiency	4.90
Consumer 197	781371	2.50	Provisional billing due to billing inefficiency	2.50
Consumer 198	6685096	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 199	5813132	4.80	Provisional billing due to billing inefficiency	4.80
Consumer 200	503721	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 201	5747625	4.20	Provisional billing due to billing inefficiency	4.20
Consumer 202	5843777	2.20	Provisional billing due to billing inefficiency	2.20
Consumer 203	1055659	7.30	Provisional billing due to billing inefficiency	7.30
Consumer 204	5947875	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 205	180065	2.20	Provisional billing due to billing inefficiency	2.20
Consumer 206	17889168	3.10	Provisional billing due to billing inefficiency	3.10

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 207	6688748	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 208	5838249	2.10	Provisional billing due to billing inefficiency	2.10
Consumer 209	5001468	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 210	541131	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 211	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 212	3436613	3.50	Provisional billing due to billing inefficiency	3.50
Consumer 213	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 214	17889167	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 215	1053371	2.60	Provisional billing due to billing inefficiency	2.60
Consumer 216	9198903	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 217	675885	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 218	6689807	1.50	Provisional billing due to billing inefficiency	1.50
Consumer 219	618151	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 220	618345	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 221	604461	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 222	5813378	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 223	617794	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 224	617799	4.40	Provisional billing due to billing inefficiency	4.40
Consumer 225	5010288	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 226	17893083	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 227	5744815	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 228	5008186	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 229	5744818	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 230	5813181	6.30	Provisional billing due to billing inefficiency	6.30
Consumer 231	5866358	6.00	Provisional billing due to billing inefficiency	6.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 232	6636168	4.20	Provisional billing due to billing inefficiency	4.20
Consumer 233	6764149	7.60	Provisional billing due to billing inefficiency	7.60
Consumer 234	7269848	1.40	Provisional billing due to billing inefficiency	1.40
Consumer 235	128386	4.40	Provisional billing due to billing inefficiency	4.40
Consumer 236	3871416	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 237	707981	4.40	Provisional billing due to billing inefficiency	4.40
Consumer 238	674594	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 239	6636143	7.60	Provisional billing due to billing inefficiency	7.60
Consumer 240	509465	1.80	Provisional billing due to billing inefficiency	1.80
Consumer 241	688199	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 242	9803600	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 243	5813161	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 244	430632	4.70	Provisional billing due to billing inefficiency	4.70
Consumer 245	9419364	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 246	6636166	1.70	Provisional billing due to billing inefficiency	1.70
Consumer 247	6636899	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 248	6688988	1.70	Provisional billing due to billing inefficiency	1.70
Consumer 249	133937	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 250	7326422	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 251	675880	6.10	Provisional billing due to billing inefficiency	6.10
Consumer 252	709904	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 253	676321	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 254	707988	3.80	Provisional billing due to billing inefficiency	3.80
Consumer 255	8457219	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 256	5008181	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 257	5813187	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 258	483158	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 259	326959	2.20	Provisional billing due to billing inefficiency	2.20
Consumer 260	160923	2.90	Provisional billing due to billing inefficiency	2.90
Consumer 261	3877248	3.40	Provisional billing due to billing inefficiency	3.40
Consumer 262	50102831	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 263	s-111/7ps	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 264	588270	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 265	9778867	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 266	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 267	426139	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 268	5813174	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 269	5010289	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 270	5010287	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 271	675463	4.10	Provisional billing due to billing inefficiency	4.10
Consumer 272	1789075	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 273	167124	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 274	7362991	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 275	712052	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 276	5813162	1.40	Provisional billing due to billing inefficiency	1.40
Consumer 277	5863389	2.60	Provisional billing due to billing inefficiency	2.60
Consumer 278	6754900	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 279	7266791	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 280	6755849	1.60	Provisional billing due to billing inefficiency	1.60
Consumer 281	1H-610459	3.20	Provisional billing due to billing inefficiency	3.20

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 282	18279725	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 283	5712077	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 284	1005979	1.80	Provisional billing due to billing inefficiency	1.80
Consumer 285	9778860	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 286	584134	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 287	5743937	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 288	9197965	1.30	Provisional billing due to billing inefficiency	1.30
Consumer 289	9686111	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 290	483802	1.90	Provisional billing due to billing inefficiency	1.90
Consumer 291	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 292	18282448	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 293	675883	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 294	5867465	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 295	349105	3.60	Provisional billing due to billing inefficiency	3.60
Consumer 296	585921	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 297	483106	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 298	9625391	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 299	5814334	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 300	3084263	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 301	5814327	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 302	5814327	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 303	58133731	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 304	5814331	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 305	58133921	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 306	817010	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 307	661810	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 308	780096	1.90	Provisional billing due to billing inefficiency	1.90
Consumer 309	5813380	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 310	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 311	5813166	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 312	5813399	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 313	17890113	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 314	5813394	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 315	2796509	3.10	Provisional billing due to billing inefficiency	3.10
Consumer 316	6636313	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 317	5813183	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 318	5010362	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 319	9199946	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 320	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 321	8131154	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 322	17889169	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 323	7326585	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 324	5863109	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 325	18254788	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 326	5368177	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 327	9803619	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 328	5863613	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 329	17890917	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 330	709269	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 331	18255190	2.00	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 332	5568169	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 333	4991911	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 334	5742818	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 335	5568175	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 336	6685331	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 337	5008306	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 338	5744062	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 339	5009520	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 340	17889336	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 341	7325046	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 342	5154022	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 343	3133220	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 344	3147761	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 345	7269489	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 346	6689707	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 347	674396	6.40	Provisional billing due to billing inefficiency	6.40
Consumer 348	768073	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 349	6689271	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 350	17038011	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 351	9778794	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 352	18279783	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 353	6754286	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 354	42757	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 355	JDE04246	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 356	850640	5.00	Provisional billing due to billing inefficiency	5.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 357	5009459	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 358	7336016	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 359	764752	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 360	6755369	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 361	5949876	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 362	706076	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 363	4992365	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 364	274879	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 365	9675390	7.00	Provisional billing due to billing inefficiency	7.00
Consumer 366	709733	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 367	6764831	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 368	9778784	8.00	Provisional billing due to billing inefficiency	8.00
Consumer 369	5011130	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 370	781337	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 371	17038013	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 372	1313057	4.60	Provisional billing due to billing inefficiency	4.60
Consumer 373	4923922	3.70	Provisional billing due to billing inefficiency	3.70
Consumer 374	5814156	6.60	Provisional billing due to billing inefficiency	6.60
Consumer 375	674599	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 376	780994	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 377	481256	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 378	5743734	7.00	Provisional billing due to billing inefficiency	7.00
Consumer 379	5864411	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 380	7362419	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 381	711169	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 382	671806	4.20	Provisional billing due to billing inefficiency	4.20
Consumer 383	483329	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 384	6639345	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 385	7P8/B-43	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 386	618001	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 387	483683	2.20	Provisional billing due to billing inefficiency	2.20
Consumer 388	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 389	6636879	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 390	17037309	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 391	764579	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 392	588048	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 393	274888	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 394	671805	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 395	6685229	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 396	9686779	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 397	5009514	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 398	5005167	6.00	Provisional billing due to billing inefficiency	6.00
Consumer 399	9683893	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 400	483534	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 401	5867467	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 402	18283375	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 403	5949097	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 404	5012528	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 405	9198805	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 406	707299	4.00	Provisional billing due to billing inefficiency	4.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 407	764756	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 408	5012527	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 409	9778443	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 410	711990	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 411	18283359	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 412	6754517	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 413	6756965	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 414	285587	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 415	9682078	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 416	2272213	2.30	Provisional billing due to billing inefficiency	2.30
Consumer 417	227252	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 418	4991707	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 419	711179	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 420	7268006	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 421	482437	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 422	7268003	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 423	17890336	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 424	17888849	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 425	4990069	4.50	Provisional billing due to billing inefficiency	2.00
Consumer 426	9776800	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 427	9625900	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 428	733741	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 429	7338883	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 430	5009571	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 431	715864	1.00	Provisional billing due to billing inefficiency	1.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 432	414107	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 433	775875	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 434	9778788	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 435	7326510	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 436	18256248	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 437	7266793	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 438	17890165	1.40	Provisional billing due to billing inefficiency	1.40
Consumer 439	415081	2.00	Provisional billing due to billing inefficiency	1.00
Consumer 440	705050	3.00	Provisional billing due to billing inefficiency	1.00
Consumer 441	3066069	4.00	Provisional billing due to billing inefficiency	1.00
Consumer 442	6639345	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 443	3077233	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 444	358566	2.70	Provisional billing due to billing inefficiency	2.00
Consumer 445	3491966	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 446	3468163	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 447	6636482	2.90	Provisional billing due to billing inefficiency	2.00
Consumer 448	6764736	1.40	Provisional billing due to billing inefficiency	1.00
Consumer 449	5864488	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 450	5810774	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 451	677976	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 452	677977	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 453	18283213	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 454	9197957	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 455	128305	2.70	Provisional billing due to billing inefficiency	2.70
Consumer 456	9683579	4.00	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 457	17890150	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 458	9197977	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 459	709919	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 460	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 461	764578	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 462	705823	4.70	Provisional billing due to billing inefficiency	2.00
Consumer 463	481691	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 464	3468715	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 465	3874103	3.20	Provisional billing due to billing inefficiency	2.00
Consumer 466	707177	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 467	677980	2.70	Provisional billing due to billing inefficiency	2.00
Consumer 468	7362128	2.80	Provisional billing due to billing inefficiency	2.00
Consumer 469	968358	6.00	Provisional billing due to billing inefficiency	2.00
Consumer 470	483243	2.00	Provisional billing due to billing inefficiency	2.00
Consumer 471	9778798	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 472	7338109	4.10	Provisional billing due to billing inefficiency	2.00
Consumer 473	5154582	4.00	Provisional billing due to billing inefficiency	2.00
Consumer 474	9421384	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 475	5812762	6.00	Provisional billing due to billing inefficiency	2.00
Consumer 476	2458702	4.70	Provisional billing due to billing inefficiency	2.00
Consumer 477	2797580	1.50	Provisional billing due to billing inefficiency	1.50
Consumer 478	850634	2.60	Provisional billing due to billing inefficiency	2.00
Consumer 479	5863117	5.00	Provisional billing due to billing inefficiency	2.00
Consumer 480	668649	4.10	Provisional billing due to billing inefficiency	2.00
Consumer 481	17888609	4.00	Provisional billing due to billing inefficiency	2.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 482	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 483	775183	2.50	Provisional billing due to billing inefficiency	2.50
Consumer 484	17038294	5.20	Provisional billing due to billing inefficiency	2.00
Consumer 485	128939	5.00	Provisional billing due to billing inefficiency	3.00
Consumer 486	3084997	2.60	Provisional billing due to billing inefficiency	2.00
Consumer 487	5295924	5.00	Provisional billing due to billing inefficiency	5.00
Consumer 488	589866	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 489	589288	3.10	Provisional billing due to billing inefficiency	2.00
Consumer 490	Locked	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 491	5947853	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 492	18255469	4.70	Provisional billing due to billing inefficiency	2.00
Consumer 493	7362420	1.80	Provisional billing due to billing inefficiency	1.00
Consumer 494	2121-00474	4.50	Provisional billing due to billing inefficiency	4.00
Consumer 495	1829534	4.30	Provisional billing due to billing inefficiency	4.00
Consumer 496	9199850	4.00	Provisional billing due to billing inefficiency	4.00
Consumer 497	4915306	2.40	Provisional billing due to billing inefficiency	2.40
Consumer 498	5297570	8.30	Provisional billing due to billing inefficiency	4.00
Consumer 499	677984	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 500	415504	4.40	Provisional billing due to billing inefficiency	2.00
Consumer 501	1827789	5.10	Provisional billing due to billing inefficiency	2.00
Total		**1654.20**		**1438.70**

Computation of commercial loss due to billing inefficiency and extrapolating the same on the circle

Particulars	1 month consumption as per Field studies (Units)	1 month consumption as per DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM (MU)	Energy billed as per the field study (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	2 (B1)	3 (B2)	4 (B3 = (B1-B2)/B1))	5 (B4)	6 (B5=B4/ (1-B3))	7 (B6=B5 - B4)	8 (B7=B6 /energy input)
Loss due to billing inefficiency	39.90	33.53	15.97%	45.02	53.58	8.56	(8.56/484.81) = 1.76%

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 1	504601	3.90	Provisional billing due to billing inefficiency	3.00
Consumer 2	1057874	6.20	Provisional billing due to billing inefficiency	3.53
Consumer 3	584132	3.60	Provisional billing due to billing inefficiency	3.00
Consumer 4	9779905	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 5	1054803	4.80	Provisional billing due to billing inefficiency	3.00
Consumer 6	6755895	3.60	Provisional billing due to billing inefficiency	3.00
Consumer 7	590309	2.80	Provisional billing due to billing inefficiency	3.00

Consumer name	Meter No.	1 day consumption as per field study	As per billing record of the DISCOM	
			Billing basis	Unit consumed (kWh)
Consumer 8	5864482	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 9	584133	2.90		3.00
Consumer 10	4916405	3.00		3.00
Consumer 11	9779201	3.10		3.00
Total		**39.90**		**33.53**

4.4 Barmer

Computation of commercial loss due to deficient meters and extrapolating the same on the circle

Particulars	1 month consumption as per field studies (Units)	1 month consumption as per the DISCOM (Units)	% of commercial loss	Energy billed by the DISCOM due to deficient metering (MU)	Energy to be billed as per the field study due to deficient metering (MU)	Commercial loss (MU)	Commercial loss in terms of energy input (%)
1	**2 (M1)**	**3 (M2)**	**4 (M3=(M1-M2)/M1))**	**5 (M4)**	**6 (M5=((M4/ (1-M3))**	**7 (M6=M5 - M4)**	**8 (M7 = M6/ energy input)**
Loss due to deficient metering			5.12%	10.78	11.36	0.58	(0.58/316.95) = 0.18%

Consumer name	1 day consumption as per field study	As per billing record of the DISCOM	
		Billing basis	Unit consumed (kWh)
Consumer 1	1.00	Provisional billing due to billing inefficiency	1.20
Consumer 2	1.00	Provisional billing due to billing inefficiency	1.00
Consumer 3	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 4	3.00	Provisional billing due to billing inefficiency	3.00

Consumer name	1 day consumption as per field study	As per billing record of the DISCOM	
		Billing basis	Unit consumed (kWh)
Consumer 5	3.00	Provisional billing due to billing inefficiency	3.00
Consumer 6	3.00	Provisional billing due to billing inefficiency	2.00
Consumer 7	14.00	Provisional billing due to billing inefficiency	**13.20**

5. Annexure V: Minutes of Meeting for the Stakeholder Workshop

Minutes of Meeting for the Stakeholder Workshop held at the office of the FoR Secretariat on October 03, 2013 for the "Study on Assessment of component-wise AT&C Losses in the State of Rajasthan"

Attendees present

Sr. No.	Name	Designation
1	Shri S. K. Chatterjee	Joint Chief (Regulatory Affairs), CERC
2	Shri V. P. Samy	DGM, PFC
3	Shri Rakesh Shah	Advisor (RE)
5	Shri Mayank Sharma	Assistant Manager (SSA&RR), PFC
6	Shri P.S Shekhawat	Chief Engineer (Commercial), Jodhpur
7	Shri Tanmay Vyas	SRO (FOR)
8	Shri Amit Paul Ekka	RO (FOR)
9	Shri S. Siddharth Mehta	Vice President, Medhaj Techno Concept Private Ltd.
10	Shri Samik Ganguli	Senior Manager, Medhaj Techno Concept Private Ltd.

Agenda for the workshop

- Share the background and objective of the study;
- Knowledge sharing session on the key findings of the study to the stakeholders;
- Obtain Stakeholder views on computation of component wise AT&C Losses; and
- Feedback from the Stakeholders on the issues related to the AT&C Losses in their respective DISCOMs.

Proceedings of the workshop

1. Shri S.K. Chatterjee, Joint Chief (Regulatory Affairs), CERC welcomed all the attendees participated in the workshop. He has initiated the proceedings of the workshop by highlight the background and objective of the study as well as the purpose of the workshop.

2. Medhaj Techno Concept Pvt. Ltd. (hereinafter referred as "Consultant") has started the presentation by highlighting the background, **value addition of the study**, scope work, selection methodology for selection of the four representative

circles, approach and methodology for computation of component wise AT&C Losses, key findings of the study including computation of the AT&C Losses in the four selected circles in Rajasthan. The representatives of the FoR Secretariat also highlighted some key aspects during the presentation such as selection parameters of the circles, loss computation methodology etc.

3. The consultant also highlighted the component wise Commercial Loss in the four representative circles in the areas of deficient metering, billing and collection inefficiencies and theft.

4. Shri P.S. Shekhawat, Chief Engineer (Commercial) Jodhpur DISCOM has highlighted that commercial loss due to billing efficiency in the DISCOMs is due to various practical reasons, especially in the agriculture connections. For example, to note the readings of the agriculture consumers the meter readers have to mount on the pole where the meters are installed. It is not always possible for the meter readers to mount on the pole, especially in the rainy season. Therefore, collection actual readings from the agriculture connections could not be possible at all points of time. Further, around 30% of the agriculture connections are still un-metered in Rajasthan which lead to commercial loss due to billing inefficiency and theft/pilferage.

5. Shri P.S. Shekhawat, Chief Engineer (Commercial) Jodhpur DISCOM has agreed with the technical loss in the HT system as shown in the draft report for all the four representative circles are within their estimation, therefore, fine with them. Further, technical loss in the LT system for Barmer, Churu and Nagaur circles are also fine with them. However, 10% technical loss in the LT system computed for the Bharatpur circle may be re-checked. The consultant has pointed out that one of the reasons for high technical loss in the LT system of Bharatpur circle is due to high LT and HT ratio as compared to other three representative circles. The other reason as pointed out by Shri Shekhawat would be slow meters and the correction factors adopted by the consultant, which will lead to the commercial

loss then the technical loss. In view of his suggestion, the consultant has ensured to look into this aspect.

6. The Stakeholders have pointed out that the AT&C losses computed for Jaipur DISCOM is higher than submitted to the PFC. In response to that the consultant has pointed out that the AT&C losses extrapolated on the Jaipur DISCOM is based on the four months data and not for the entire FY 2012-13. Further, the field studies were carried out during the peak summer i.e. when the agriculture consumption was maximum in the circle. It may be possible, agriculture consumption in the other circles, especially in the urban dominated circles were not so high during the study period. However, the consultant assured that the extrapolation formula will be re-checked.

7. Shri P.S. Shekhawat has pointed out that the energy billed to the consumers should be matched with the energy input during the corresponding period. in response to that the consultant has highlighted that the energy billed with respect to energy input during the study period has already matched.

8. The FOR Secretariat has suggested that a section on differential analysis i.e. difference between the AT&C losses reported by the DISCOMs, actual findings from the study and reported to PFC should be shown in the Final Report The consultant has agreed to incorporate the same in the Final Report.

Action points

- Re-compute the technical loss in the LT system of Bharatpur circle.
- Re-check the extrapolation figures of Jaipur DISCOM.
- Incorporate differential analysis of AT&C losses in the Final report.