

**Annual Energy Accounting Audit Report
(FY 2022-23)**

Designated Consumer



Ajmer Vidyut Vitaran Nigam Limited

Submitted to



BUREAU OF ENERGY EFFICIENCY
Government of India, Ministry of Power



Bureau of Energy Efficiency

[Govt. of India – Ministry of Power]

4th Floor, Sewa Bhawan, R. K. Puram, New Delhi – 110066

And

Rajasthan Renewable Energy Corporation Limited

[Govt. of Rajasthan]

E-166, Yudhishtir Marg, C-Scheme, Jaipur-302005

Prepared By



MCJ Energy Engineers Pvt. Limited

(EmAEA – 0022)

244, Chouhan Estate, G.E. Road, Supela, Bhilai, (C.G.)

Pin - 490023

(under the regulations notified by The Bureau of Energy Efficiency (BEE), through Ministry of Power, Government of India, 'Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in Electricity Distribution Companies) Regulations, 2021' vide Notification No.18/1/BEE/DISCOM/2021 dated 6th October 2021, and amendment issued thereof on 28th Oct. 2022.)



AJMER VIDYUT VITRAN NIGAM LIMITED

Corporate Identification Number (CIN) - U40109RJ20005GC016482
(Regd. Office: Vidyut Bhawan, Panchasheel Nagar, Ajmer-305004)

Office of the Addl. Chief Engineer (IT-M&P)

Centralised Energy Accounting & Audit Cell,
Room# 12, IT Cell Building, Naka Madar, Ajmer-305007
Website : <https://energy.rajasthan.gov.in/avvnl> Email : ceitmnp0145@gmail.com

No. AVVNL/ ACE(IT/M&P)/ 2023-24/ CEA&Audit Cell/ D. 147 Date: 31.07.2023

To

1. The Director,
Bureau of Energy Efficiency,
Ministry of Power, Govt. of India,
4th Floor, Sewa Bhawan,
R.K.Puram, New Delhi - 110066 (India)
Email : mdeore@beeindia.gov.in
suryav@beeindia.gov.in

2. The General Manager,
M/s Rajasthan Renewable Energy Corp.
Limited (RRECL),
E-166, Yudhisthir Marg, C-Scheme,
Ashok Nagar, Jaipur, Rajasthan 302005,
Email : rrec2016@gmail.com,
rrecpat@gmail.com

Sub: Submission of Annual Energy Accounting & Audit Report of Ajmer DisCom (DIS0019RJ) for FY 2022-23, Reg.

Ref: Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021 and its amended Regulations, 2022 under EC Act, 2001.

On the subject and reference cited above, please find attached **Annual Energy Accounting & Audit Report of Ajmer DisCom for FY 2022-23 (1st April, 2022 to 31st March, 2023)** in compliance to the **BEE Regulations 2021** and its amended Regulations, 2022 under **Energy Conservation Act, 2001**.

The aforesaid detailed annual energy audit has been conducted by team lead by Dr. M.C. Jain, **Accredited Energy Auditor (AEA-030)** & its empanelled AEA firm **M/s MCJ Energy Engineers Pvt. Limited, Bhilai** with BEE.

Kindly **acknowledge** the Report and issue its **acceptance** at the **earliest possible**.

Enclosed: Annual Energy Accounting & Audit Report (FY:2022-23) as above.

(V.K. Agarwal)

Addl. Chief Engineer (IT/M&P)
Ajmer DisCom, Ajmer

Copy submitted/forwarded to the following for information and necessary action :-

1. The Director (Technical/Finance), Ajmer DisCom, Ajmer
2. The TA to the Managing Director, Ajmer DisCom, Ajmer

Addl. Chief Engineer(IT/M&P)
Ajmer DisCom, Ajmer

Acknowledgement

We express our sincere gratitude to the authorities of Ajmer Vidyut Vitaran Nigam Limited (AVVNL) for entrusting and offering the opportunity of energy performance assignment.

We are thankful to Ajmer Vidyut Vitaran Nigam Limited officials for timely guidance and for their positive support in undertaking the task of system mapping and energy efficiency assessment of sampled electrical distribution system. The field studies would not have been completed on time without their interaction and guidance. We admire their cooperation during field studies and providing necessary data for the study.

- Shri N.S. Nirwan Managing Director
- Shri A.K. Gupta Director Technical
- Shri V.K. Agrawal Addl. Chief Engineer (IT-M&P)
- Shri P.C. Tiwari Energy Manager

Dr. M.C. Jain
(Accredited Energy Auditor)

AEA-030

Study Team

Sl. No.	Name	Qualification	Sector Expert/EA/AEA/EmAEA Reg No	Experience In Years
Team Leader				
1	Dr. Moolchand Jain	B.E. (Electrical)	EmAEA - 022	46 years
Sector Expert				
2	Mr. Manoj Dey	B. E. (Electrical)	DISCOM Sector Expert	45 years
Team Members				
3	Mr. Nilesh Kumar Jain	B.E. (Mechanical)	EA – 31064	13 years
4	Mr. Himanshu Bhatt	B.E. (Electrical)	EA - 31017	10 Years

Energy Manager from Ajmer Discom				
Mr. Prahalad Chandra Tiwari	B.E. (Hons.) Electrical, M.Tech (Distinction) Energy Management, MIE (India), Chartered Engineer (India)	EA-2538/AEA-0130	25 years	

Contents

1. Executive Summary.....	13
2. Background	14
2.1 About BEE.....	14
2.2 Extant regulations and role of BEE.....	14
2.3 Purpose of audit and accounting report.....	22
2.4 Period of Energy Accounting and Auditing	22
3. DISCOM Introduction and Overview.....	23
3.1 Name and Address of DISCOM	23
3.2 Name and Contact details of Energy Manager and Authorized Signatory of DISCOM.....	24
3.3 Summary profile of DISCOM	24
3.3.1 AVVNL Jurisdiction.....	24
3.3.2 AVVNL Infrastructure details	28
3.3.3 Energy flow	30
3.3.4 Consumer Base	59
3.4 Energy Conservation measures already taken and proposed for future.....	61
4. Energy Flow Analysis.....	69
4.1 Energy flow across 5 service levels	69
4.2 Validation of metered data.....	70
4.3 Validation of energy flow data and losses	70
5. Loss and Subsidy Computation	71
5.1 Energy accounts analysis for previous years	71
5.2 Energy account analysis and performance in current year	73
5.2.1 Aggregate	73
5.2.2 Voltage wise assessed losses	92
5.2.3 Category wise assessed losses	92
5.2.4 Sub division wise assessed losses	93
5.2.5 Feeder wise and DTR wise assessed losses.....	99
5.2.6 Circle wise assessed losses.....	99
5.2.7 Identification of loading of segments/infrastructure	101
5.2.8 Subsidy computation and analysis.....	107
6. Energy Audit Findings	140
6.1 Review of Capacity of DISCOM's energy accounting and audit cell	140
6.2 Critical analysis - status and progress in compliance to prerequisites to energy accounting, data gaps, and summary of key responses of DISCOM management on Comments by Energy Auditor	141

6.3	Revised findings based on data validation and field verification	142
6.4	Inclusions and Exclusions	142
7.	Conclusion and Action plan.....	143
7.1	Summary of critical analysis by energy auditor	143
7.2	Summary of key findings – energy balance and losses.....	144
7.3	Recommendations and best practices – energy accounting, loss reduction, and energy conservation	147
7.3	Action plan for monitoring and reporting.....	147
7.4	Action plan for automated energy accounting.....	147
8.	Annexures	148
i.	Introduction of Verification Firm	148
ii.	Minutes of meeting with the DISCOM team.....	150
iii	Check List prepared by auditing Firm. (check list items may be detailed out in annexure) ...	151
iv	Brief Approach, Scope & Methodology for audit	152
V	Infrastructure details	153
Vi	Electrical Distribution System	154
Vii	Power Purchase details.....	155
Viii	Single line diagram.....	156
ix	Category of service details (With Consumer and voltage-wise).....	157
X	Field verification data and reports.....	157
Xi	List of documents verified with each parameter	182
Xii	Brief Description of Unit	182
Xiii	List of Parameters arrived through calculation or formulae with list of documents as source of data	183
Xiv	Detailed Formats to be annexed.....	184
1.	General information.....	184
2.	Summary sheet	185
3.	Infrastructure details	186
4.	Division wise losses	188
5.	Form Input Energy	214
6.	Details of received sources	244
7.	Details of Consumer and Consumption	256
8.	Details on feeder levels.....	258
9.	Subsidy details	433
	434
XV	Additional documents.....	443

1. Feeder meters calibration reports.....	443
2. Action plans taken for energy conservation, monitoring and reporting and automatic data recording.....	478

List of Tables

Table 1 Abbreviation and Explanation	12
Table 2 Summary of performance of AVVNL in 2022-23 as per BEE pro forma	13
Table 3 Summary of performance of AVVNL in 2022-23	13
Table 4 Contact details of DISCOM	23
Table 5 Contact Details of Energy Manager and Nodal officer	24
Table 6 AVVNL Infrastructure details	28
Table 7 AVVNL Circle level details with Consumer category	29
Table 8 AVVNL Circle Level consumer distribution	29
Table 9 Energy flow at input energy injection points	30
Table 10 Category of Consumers of AVVNL	59
Table 11 KUSUM scheme details	65
Table 12 Energy flow across 5 service levels	69
Table 13 Validation of Energy flow data and losses	70
Table 14 Energy Account summary for the previous 5 years	71
Table 15 Energy account summary for the current year 2022-23 as per BEE pro forma	73
Table 16 Additional details for energy purchased and energy sold	74
Table 17 Inter Discom calculation for the year 2022-23	74
Table 18 Power Purchase details from various sources for Ajmer Discom in 2022-23	75
Table 19 Inter Discom adjustment for Distribution company	82
Table 20 Inter Discom calculation for the year 2022-23	82
Table 21 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month April 2022	83
Table 22 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month May 2022	83
Table 23 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month June 2022	84
Table 24 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month July 2022	84
Table 25 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month August 2022	85
Table 26 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month September 2022	85
Table 27 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month October 2022	86
Table 28 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month November 2022	86
Table 29 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month December 2022	87
Table 30 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month January 2023	87
Table 31 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month February 2023	88
Table 32 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month March 2023	88
Table 33 Circle wise cash assessment and cash realisation (excluding tariff subsidy, DBT & PSL) for the FY 2022-23	89
Table 34 Circle Wise PDC outstanding details of Ajmer Discom for 2022-23	90
Table 35 Status of mobile number updation for Ajmer Discom for the FY 2022-23	91
Table 36 Voltage wise assessed losses	92
Table 37 Category wise T&D losses for the year 2022-23	92
Table 38 Category wise AT&C losses for the year 2022-23	92
Table 39 AT&C losses as per Ministry of Power Guidelines for the year 2022-23	93
Table 40 Subdivision wise assessed T&D and AT&C losses	93
Table 41 Sub divisions with high T&D and AT&C losses	98
Table 42 Circle wise assessed losses for the year 2022-23	99
Table 43 Circle wise AT&C losses for the year 2022-23	100
Table 44 Sub division wise loading assessment for 2022-23	101
Table 45 Circle wise loading assessment for 2022-23	106

Table 46 Sub division Consumer category wise subsidy billed/received/due for period April 2022 to March 2023	107
Table 47 Circle Consumer category wise subsidy billed/received/due for period April 2022 to March 2023	136
Table 48 Details of susidy booked and subsidy received in the FY 2022-23.....	138
Table 49 AVVNL Energy accounting and audit cell AVVNL	140
Table 50 Data gaps and responses by AVVNL.....	141
Table 51 Status and progress in compliance to prerequisites to energy accounting.....	143
Table 52 T&D losses analysis	144
Table 53 Collection efficiency analysis.....	145
Table 54 AT&C losses analysis.....	145
Table 55 Load factor analysis	146
Table 56 List of substations of which feeders were checked for validation of metering status and metering data.....	158

List of Figures

Figure 1 Rajasthan Electrical Distribution Network.....	25
Figure 2 AVVNL Geographical map	26
Figure 3 Ajmer Discom Organization Chart	27
Figure 4 Circle level Consumer Spread for AVVNL.....	30
Figure 5 Category Wise Consumer Distribution of AVVNL	60
Figure 6 Net Input Energy Availability for last five years	72
Figure 7 Distribution losses in the last five years.....	72
Figure 8 AT&C losses in last five years	73
Figure 9 Circle wise T&D losses in 2022-23.....	99
Figure 10 Circle wise AT&C losses for the year 2022-23.....	100
Figure 11 Circle wise load factor for 2022-23	106
Figure 12 Subsidy details of AVVNL for the year 2022-23	139

Abbreviations

Table 1 Abbreviation and Explanation

Abbreviations	Explanations
AVVNL	Ajmer Vidhut Vitran Nigam Limited
BEE	Bureau of Energy Efficiency

Electrical Terms

V (Volt) - Unit of voltage.

kV (kilovolt) - 1,000 volts.

W (Watt) - Unit of active power.

kW (kilowatt) - 1,000 watts.

MW (Megawatt) - 1,000 kW.

Wh (watt-hour) - Unit of Energy.

kWh (kilowatt-hour) - 1,000 Wh.

MWh (Megawatt-hour) - 1,000 kWh.

MUs (Million Units)-1kWh x 10⁶.

VA (Volt-ampere) - Unit of apparent power.

kVA (kilovolt-ampere) - 1,000 VA.

MVA (Megavolt-ampere) - 1,000 kVA.

VAr (volt-ampere reactive) - Unit of reactive power.

Load Factor - Ratio of average power demand to maximum power demand
Electrical Losses - Difference between energy delivered and energy sent out.

PF – Power Factor

1. Executive Summary

Table 2 Summary of performance of AVVNL in 2022-23 as per BEE pro forma

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr'22 - 31st Mar23	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	29417.58
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	27067.20
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	24359.46
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	2707.73
		%	10.00%
	Collection Efficiency	%	101.74%
(c)	Aggregate Technical & Commercial Loss	%	9.34%

- The input energy purchase from all the generation sources the year 2022-23 was 29417.58 Million kWh.
- The net input energy available at Ajmer DISCOM periphery after augmenting transmission losses and traded energy is 27067.20 Million kWh.
- The net energy billed is 24359.60 Million kWh.
- The Distribution losses is 2707.73 Million kWh which is 10.004%.
- The collection efficiency of the Ajmer DISCOM is 101.736% and AT&C losses is 9.34%.
- The DISCOM has shown a significant improvement in the performance in terms of technical and commercial losses from their previous years of operation.

Table 3 Summary of performance of AVVNL in 2022-23

Particulars	For the Year ended 31.03.2023	
	(Units in MU)	(` in lakhs)
Purchase of Energy	29814.62	15,73,335.12
Less: Sale of energy through Power exchange	397.04	18,792.26
Net availability before Tr. Loss	29417.58	15,54,542.86
Transmission Loss (MU)	2350.38	
Transmission Loss (%)	7.99	
Net availability after Tr. Loss	27067.20	
Sales of Energy	24359.46	18,90,460.76
Distribution Loss (MU)	2707.74	
Distribution Loss (%)	10.00	
T & D Loss (MU)	5058.12	
T & D Loss (%)	17.19	

2. Background

2.1 About BEE

The Government of India set up Bureau of Energy Efficiency (BEE) on 1st March 2002 under the provisions of the Energy Conservation Act, 2001. The mission of the Bureau of Energy Efficiency is to assist in developing policies and strategies with a thrust on self- regulation and market principals, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.

2.2 Extant regulations and role of BEE

The Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit (Accounting) in Electricity Distribution Companies) Regulations, 2021, were published vide notification No.18/1/BEE/DISCOM/2021, dated the 15th April, 2021 in the Gazette of India, Extraordinary, Part III, Section 4, as required under sub-section (1) of section 58 of the Energy Conservation Act, 2001 (52 of 2001) inviting objections and suggestions from all persons likely to be affected thereby within forty five days from the date of publication of the Notification in the Official Gazette; AND WHEREAS objections and suggestions received with respect to the said draft regulations within the specified period aforesaid have been duly considered; NOW, THEREFORE, in exercise of the powers conferred by clause (g) of sub-section (2) of section 58, read with clause (q) of sub-section (2) of section 13 of the Energy Conservation Act, 2001 (52 of 2001), the Bureau of Energy Efficiency, with the previous approval of the Central Government, hereby makes the following regulations, namely:--

1. Short title, application and commencement. — (1) These regulations may be called the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021.

(2) These regulations shall apply to all electricity distribution companies specified as designated consumer.

(3) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions.- (1) In these regulations, unless the context otherwise requires, — (a) “Act” means the Energy Conservation Act, 2001 (52 of 2001);

(b) “annual energy audit” means the energy audit conducted by an accredited energy auditor on annual basis in accordance with these regulations;

(c) “annual energy audit report” means the report on annual energy audit;

(d) “circle” means the demarked area of the electricity distribution company in which electricity distribution company is divided.

(e) “consumer” shall have the meaning assigned to it under clause (15) of section 2 of the Electricity Act, 2003 (36 of 2003);

(f) “division” means an administrative unit in which an electricity distribution company is divided for the purpose of ease of operation;

(g) “electricity distribution company” means a distribution licensee as defined in clause (17) of section 2 of the Electricity Act, 2003 (36 of 2003);

(h) “energy accounting” means accounting of all energy inflows at various voltage levels in the distribution periphery of the network, including renewable energy generation and open access consumers, and energy consumption by the end consumers;

(i) “periodic energy accounting” means the energy accounting conducted on quarterly basis as mentioned in regulation 4;

(j) “periodic energy accounting report” means the report on periodic energy accounting submitted and signed by the energy manager;

(2) Words and expressions used herein and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

(2) Where a new electricity distribution company is established after the commencement of these regulations, such electricity distribution company shall

3. Intervals of time for conduct of annual energy audit.- (1) Every electricity distribution company shall conduct an annual energy audit for every financial year and submit the annual energy audit report to the Bureau and respective State Designated Agency and also made available on the website of the electricity distribution company within a period of four months from the expiry of the relevant financial year:

Provided that on the commencement of these regulations, the first annual energy audit of every electricity distribution company shall be conducted within six months from the date of such commencement, by taking into account the energy accounting of electricity distribution company for the financial year immediately preceding the date of the commencement of these regulations.

(2) Where a new electricity distribution company is established after the commencement of these regulations, such electricity distribution company shall conduct its first annual energy audit on completion of the first financial year from the date of being notified as designated consumer.

Explanation. — If any entity created as a result of merger, demerger, slump sale, acquisition, change of control or any other corporate restructuring of, or involving, any existing electricity distribution company, such entity shall not be considered as a new electricity distribution company for the purposes of this sub-regulation.

4. Intervals of time for conduct of periodic energy accounting.- (1) Every electricity distribution company shall —

(a) ensure that all feeder wise, circle wise and division wise periodic energy accounting shall be conducted by the energy manager of the electricity distribution company for each quarter of the financial year; and

(b) submit the periodic energy accounting report to the Bureau and respective State Designated Agency and also made available on the website of electricity distribution company within forty-five days from the date of the periodic energy accounting.

(2) After the commencement of these regulations, every electricity distribution company shall, notwithstanding anything in sub-regulation (1), —

(a) conduct its first periodic energy accounting, for the last quarter of the financial year immediately preceding the date of such commencement; and

(b) conduct its subsequent periodic energy accounting for each quarter of the financial year for a period of two financial years from the date of such commencement, and submit the periodic energy accounting report within sixty days from the date of periodic energy accounting.

5. Pre-requisites for annual energy audit and periodic energy accounting — Save as otherwise provided, every electricity distribution company shall undertake all actions as may be required for the annual energy audit and periodic energy accounting before the start of the relevant financial year, including the following actions, namely:—

(a) the identification and mapping of all of the electrical network assets;

(b) the identification and mapping of high tension and low-tension consumers;

(c) the development and implementation of information technology enabled energy accounting and audit system, including associated software;

(d) the electricity distribution company shall ensure the installation of functional meters for all consumers, transformers and feeders:

(e) all distribution transformers (other than high voltage distribution system upto 25kVA and other distribution system below 25 kVA) shall be metered with communicable meters. And existing noncommunicable distribution transformer meters shall be replaced with communicable meters and integrated with advanced metering infrastructure;

(f) the electricity distribution company shall establish an information technology enabled system to create energy accounting reports without any manual interference:

(i) within a period of three years from the date of the commencement of these regulations in case of urban and priority area consumers; and

(ii) within five years from the date of the commencement of these regulations in case of rural consumers;

(i) a nodal officer, an energy manager and an information technology manager, having professional experience of not less than five years; and

(ii) a financial manager having professional experience of not less than five years;

Provided that meter installation may be done in a phased manner within a period of three financial years from the date of the commencement of these regulations in accordance with the trajectory setout in the First Schedule;

Provided that such system may be established—

(g) the electricity distribution company shall create a centralized energy accounting and audit cell comprising of—

(h) any other requisite that Bureau may direct for energy audit and accounting purpose.

6. Reporting requirements for annual energy audit and periodic energy accounting –

(1) Every electricity distribution company shall designate a nodal officer, who shall be a full time employee of the electricity distribution company in the rank of the Chief Engineer or above, for the purpose of reporting of the annual energy audit and periodic energy accounting and communicate the same to the Bureau.

(2) Every electricity distribution company shall ensure that the energy accounting data is generated from a metering system or till such time the metering system is not in place, by an agreed method of assumption as may be prescribed by the State Commission.

(3) Metering of distribution transformers at High Voltage Distribution System upto 25KVA can be done on cluster meter installed by each electricity distribution company.

(4) The energy accounting and audit system and software shall be developed to create monthly, quarterly and yearly energy accounting reports.

(5) Every electricity distribution company shall provide the details of the information technology system in place as specified in clause (f) of regulation 5 that ensures minimal manual intervention in creating the energy accounting reports and any manual intervention of any nature, in respect of the period specified therein, shall be clearly indicated in the periodic energy accounting report.

Manner of annual energy audit and periodic energy accounting.- (1) Every annual energy audit and periodic energy accounting under these regulations shall be conducted in the following manner, namely:—

(a) verification of existing pattern of energy distribution across periphery of electricity distribution company; and

(b) verification of accounted energy flow submitted by electricity distribution company at all applicable voltage levels of the distribution network,—

(i) energy flow between transmission and 66kV/33kV/11kV incoming distribution feeders;

(ii) energy flow between 66kV/33kV outgoing and 11kV/6.6kV incoming feeders;

(iii) energy flow between 11 kV/6.6kV feeders and distribution transformers, or high voltage distribution system;

(iv) energy flow between distribution transformer, or high voltage distribution system to end consumer, including ring main system;

(v) energy flow between Feeder to end-consumer; and

(vi) energy flow between 66/33/11 kV directly to consumer.

(2) The accredited energy auditor, in consultation with the nodal officer of the electricity distribution company shall,—

(a) develop a scope of work for the conduct of energy audit required under these regulations;

(b) agree on best practice procedures on accounting of energy distributed across the network; and

(c) collect data on energy received, and distributed, covered within the scope of energy audit.

(3) The accredited energy auditor shall—

(a) verify the accuracy of the data collected in consultation with the nodal officer of the electricity distribution companies as per standard practice to assess the validity of the data collected; and

(b) analyse and process the data with respect to—

(i) consistency of data monitoring compared to the collected data;

(ii) recommendations to facilitate energy accounting and improve energy efficiency; and

(iii) with respect to the purpose of energy accounting in reducing losses for the electricity distribution company.

8. Prioritization and preparation of action plan.- (1) The annual energy audit report submitted by accredited energy auditor in consultation with the nodal officer and periodic energy accounting report submitted by energy manager of the electricity distribution company shall include following activities, namely:—

(I) data collection and verification of energy distribution—

(a) monthly energy consumption data of consumers and system metering from electricity distribution company at following voltage levels —

(i) 33/66/132 kV levels, including 33/66/132kV feeder and Sub-station;

(ii) 11/22 kV levels, including 11/22 kV feeder and Distribution Sub-station;

(iii) 440 V level, including Distribution Transformer and low tension consumer;

(b) input energy details for all metered input points;

(c) boundary meter details;

(d) source of energy supply (e.g. electricity from grid or self-generation), including generation from renewables.

(e) review of the current consumption practices in order to identify the energy loss in the system;

(II) data verification, validation and correction—

(a) a monitoring and verification protocol to quantify on annual basis the impact of each measure with respect to energy conservation and cost reduction for reporting to Bureau and the concerned State designated agency;

(b) verification and correction of input energy, taking into account the following —

(i) recorded system meter reading by metering agency;

(ii) all the input points of transmission system;

(iii) details provided by the transmission unit;

(iv) relevant records at each electricity test division for each month;

(v) recorded meter reading at all export points (where energy sent outside the State is from the distribution system); and

(vi) system loading and corresponding infrastructure;

(c) energy supplied to Open Access Consumers which is directly purchased by Open Access Consumers from any supplier other than electricity distribution company; and

(d) verify and validate the system metering data provided by metering agency through random field visit (particularly for data irregularity).

The SOP for energy auditor has been released on _____ by BEE for the purpose of effectively carrying out the energy audit work of the electricity distribution company.

Guidance for Energy Auditor

This document has been prepared to serve as a guidance note for the Energy Auditors for conducting the annual energy audit while ensuring adherence to the regulations.

Objectives of Energy Audit: The objective of the Energy Audit is as follows:

(a) Identify high loss areas so that corrective action can be taken.

(b) Ensure that subsidy accounts are transparent; and the subsidy claims of the DISCOMs are on the basis of reliable data.

(c) Help in Energy planning.

Accordingly, it covers aspects relating to data collection, verification and validation by Energy Auditor through field visits for metering (at feeder, DT and consumer level) and metered data, determination of energy flows including input energy, consumption, identification of areas related to energy leakage, high loss-making areas, overloaded segments of network and computation of loss, subsidy with stakeholder consultations and preparation and submission of annual energy audit report.

The annual energy audit should be conducted in the following three (3) phases.

1. Pre-audit phase

i. Discussion and review meeting(s) with DISCOMs and Energy Manager(s) to ensure reliable and timely data availability

ii. A review of the Macro level data in order to assess the areas of high losses and data gaps

iii. Planning field visits to verify and collect data

iv. Planning and phasing of various steps involved in audit exercise including data collection, manpower/team deployment,

v. Organizing the structure of the audit report in consonance with energy accounting regulations notified by BEE; and the output required for corrective action and decision making

vi. Undertake a review of the capacity of the centralized energy accounting and audit cell created at the DISCOM in terms of adequate representation from professional backgrounds of IT Manager, Energy Manager and Financial Manager

2. Audit phase

i. **Review** of present structure of energy flow in DISCOM at different levels - State level, transmission, sub-transmission, DT level, feeder level to end consumer etc.

ii. **Capture** details of DISCOM infrastructure - no. of circles, divisions, sub-divisions, sections, Substations, total No. of Power Transformers with capacity in MVA, total No. of Capacitor Banks in Substations and capacity in MVAR, feeders, DTs with capacity in MVA, boundary meters, category wise consumers and Voltage level for each consumer category etc.(Refer Regulation 5)

iii. **Stakeholder interactions** with DISCOM, Energy Manager, SE (Circle level), XEN (Division level) for data accuracy and other issues.

iv. **Verify, check and validate** current metering status (operational/ faulty/ unmetered) and type (communicable/ static etc.) at various voltage levels (feeders, DTs, consumers) and Metering details (such as Meter Sl. Number, Meter reading date and the Multiplying Factor) through sample field visits and available records with DISCOM.

v. **Verification of energy flow data** within DISCOM at all applicable voltage levels(Refer Regulation 7) of distribution network as specified in the regulations. The service level wise energy flow data is to be computed by the DISCOM on a monthly basis, and it would submit a consolidated Quarter wise report to the Energy Auditor, who would only verify the same.

vi. **Validation through sample data checks and field visits:**

a. **Validation of feeder data:** Based on data available in 11 kV Feeder meter at substation for a sample size of 10% for which documentary evidence to be captured in the audit report.

b. **Validation of energy flow data and losses:** Based on field survey as per the following sample size:

- Min. 10 or 1% (whichever is higher) of DISCOM's input energy metering points between Transmission and 66kV/33kV/11kV distribution feeders by checking functional and communication status of meters etc.
- For all Divisions with AT&C losses greater than 25% or at-least 1/3 of the total Divisions of DISCOM, verify:
 - Total of min. 10 or 1% of metering points (whichever is higher) between 220-132-110- 66 /33 kV outgoing and 22kV-11kV-6.6kV-3kV incoming feeders/ direct end-consumer by checking functional and communication status of meters.
 - In an Urban High Loss Division, check 5 or 1% of Metering points (whichever is higher) at DTs where communicable meters were already installed under other schemes such as R-APDRP and IPDS.
 - Total of min. of 10 or 1% of metering points (whichever is higher) between 11kV/6.6kV feeders and DTs by checking functional and communication status of meters, foot survey of feeder to check for thefts/ hooking etc.
 - Verify metering and connection status of min. of 10 or 2% consumers of the Division (whichever is higher) of the following category of consumers – Agriculture (Metered and Un-metered), Govt. category connection (ULB, RLB etc.), and LT Industrial

c. **Field verification report** of the activities undertaken in a) and b) above to be included as an annexure to the energy audit report.

vii. Computation of AT&C losses for each division:

a) **Input energy data:** Identification of all input points of transmission system, collection of input energy from recorded system meter reading including energy received and distributed by DISCOM, recorded meter reading at all DISCOM export points, system loading, source of energy supply including generation from RE, etc.

b) **Billing and collection data:** Division wise and category wise no. of consumers, Voltage Level for every consumer category, metered and un-metered, connected load, billed and un-billed energy, details of open access, EHT sale, HT sale, LT sale and transmission losses, computation of agriculture/ other unmetered consumer consumption (approved by SERC) etc.

c) **Computation of distribution loss, collection efficiency and AT&C loss at a division level.**

d) **Identify high-loss divisions and network segments:** Based on energy loss and AT&C losses, wastage or inefficient use of electricity etc. for initiating target based corrective action

e) **Identify overloaded segments/ infrastructure:** Based on sample assessment and data analysis, make recommendations on undertaking necessary capacity augmentations in substations, Feeders, Transformers and up to consumer end as observed.

viii. Computation of subsidy assessed based on energy accounting data:

a) **Computation of category wise subsidy:** Verify and compute category/ sub-category/ slab wise subsidy assessment and received, based on energy sold to subsidized categories, multiplied by the per unit subsidy notified by the State Govt. This needs to be done on Quarter wise data (Books of the DISCOMs are to be also checked).

b) **Computation of Average Billing Rate (ABR):** Division and category wise Revenue billed/ assessment, ABR with and without tariff subsidy etc.

ix. Revise the findings accordingly as per the field visits undertaken as mentioned above

x. Trend analysis with quarterly audit findings, past data review

xi. Exception analysis and aberrations if any observed in audit exercise

3. Post Audit and Reporting phase

Detailed Energy Audit Report preparation and submission as per BEE energy accounting regulations (Refer Regulation 9)

ii. Audit report should include energy accounting data captured on a quarterly basis for the FY. The audit report should point out variances in quarterly and annual data and recommendations for alignment of periodic accounting and annual energy audit report, key data gaps, assumptions and exceptions.

iii. Wherever available and feasible, validate Energy Audit report with the Energy Audit report generated by the DISCOM for smart meters – for this, the DISCOM would facilitate data/ report availability from the respective AMISP.

iv. Submit an Action Plan in the Energy Audit Report, which should necessarily capture the following:

a) Provide recommendations w.r.t energy accounting, loss reduction, subsidy accounting, consumption analysis etc. This should include cost-benefit analysis, payback periods etc.,

accompanied by a detailed implementation plan and a mechanism for regular review and monitoring so that desired objectives are achieved within stipulated timelines.

b) Develop a comprehensive action plan for monitoring of energy flow at each voltage level(Refer Regulation 8)

c) Recommendations to also include that energy accounts prepared and submitted to BEE to be used for financial audit reporting.

d) Auditor to obtain detailed action plan from the DISCOM to establish an IT enabled system to create energy accounting reports without any manual interference. This should include timelines for completion of Smart metering of Feeders and DTs, and generation of automated energy accounting reports through an IT platform/ solution. Detailed action plan to form part of energy audit report for regular review and monitoring.

e) Auditor should observe and compile various Energy Conservation options implemented by the DISCOM and prepare report containing details of expenditure done by DISCOM along with saving and payback period.

v. Assessment details and recommendations related to annual energy audit of previous year.

2.3 Purpose of audit and accounting report

i. development of a comprehensive energy accounting system to quantify and determine actual losses in the power distribution system, segregated across technical and commercial losses.

ii. Identification of areas of leakage, theft, wastage or inefficient use, thereby paving the way for tackling the present challenges of high Transmission and Distribution (T&D) losses.

iii. to enable and ensure an independent 3rd party energy audit of the distribution system to arrive at a true and fair picture of T&D losses.

iv. to enable the Distribution utilities to undertake targeted efficiency improvement activities to reduce Distribution losses in priority areas / customer segments.

2.4 Period of Energy Accounting and Auditing

Every electricity distribution company shall conduct an annual energy audit for every financial year and submit the annual energy audit report to the Bureau and respective State Designated Agency and also made available on the website of the electricity distribution company within a period of four months from the expiry of the relevant financial year:

Where a new electricity distribution company is established after the commencement of these regulations, such electricity distribution company shall conduct its first annual energy audit on completion of the first financial year from the date of being notified as designated consumer.

Provided that on the commencement of these regulations, the first annual energy audit of every electricity distribution company shall be conducted within six months from the date of such commencement, by taking into account the energy accounting of electricity distribution company for the financial year immediately preceding the date of the commencement of these regulations.

3. DISCOM Introduction and Overview

3.1 Name and Address of DISCOM

Table 4 Contact details of DISCOM

1	Name of the DISCOM	Ajmer Vidyut Vitran Nigam Limited		
2	i) Year of Establishment	2000		
	ii) Government/Public/Private	Government		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Ajmer		
ii	District	Ajmer		
iii	State	Rajasthan	Pin	305004
iv	Telephone	145-2644551	Fax	145-2644551
4	Registered Office			
i	Company's Chief Executive Name	Mr. Narendra Singh Nirwan		
ii	Designation	Managing Director		
iii	Address	Vidhyut Bhawan, Panchsheel		
iv	City/Town/Village	Ajmer	P.O.	Ajmer
v	District	Ajmer		
vi	State	Rajasthan	Pin	305004
vii	Telephone	145-2644551	Fax	145-2644551

3.2 Name and Contact details of Energy Manager and Authorized Signatory of DISCOM

Table 5 Contact Details of Energy Manager and Nodal officer

1 Nodal Officer Details*				
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Vijay Kumar Agrawal		
ii	Designation	Addl. Chief Engineer (IT-M&P)		
iii	Address	Room # 203, Vidyut Bhawan, Panchasheel Nagar, Ajmer		
iv	City/Town/Village	Ajmer	P.O.	Naka Madar
v	District	Ajmer		
vi	State	Rajasthan	Pin	305007
vii	Telephone	9413691459	Fax	-
6 Energy Manager Details*				
i	Name	Prahalad Chandra Tiwari		
ii	Designation	Energy Manager	Whether EA or EM	EA
iii	EA/EM Registration No.	EA-2538		
iv	Telephone	-	Fax	-
v	Mobile	9413364941	E-mail ID	energy.manager.avvnl@rajasthan.gov.in

3.3 Summary profile of DISCOM

3.3.1 AVVNL Jurisdiction

Ajmer Vidyut Vitran Nigam Ltd, (AVVNL) has been established under the Companies Act,1956 by Govt. of Rajasthan. The Ajmer Discom has been created with the principal object of engaging in the business of distribution and supply of electricity in 11 districts of Rajasthan, namely Ajmer, Bhilwara, Nagaur, Sikar, Jhunjhunu, Udaipur, Banswara, Chittorgarh, Rajsamand, Dungarpur and Pratapgarh. The area of operation of Ajmer Discom is 87256 sq. km. And the population in this area is 229 lacs as per 2021 census. The power supply in the Ajmer Discom is managed by 12 distribution circles i.e. Ajmer City, Ajmer District, Bhilwara, Nagaur, Sikar, Jhunjhunu, Udaipur, Banswara, Chittorgarh, Rajsamand, Dungarpur and Pratapgarh.

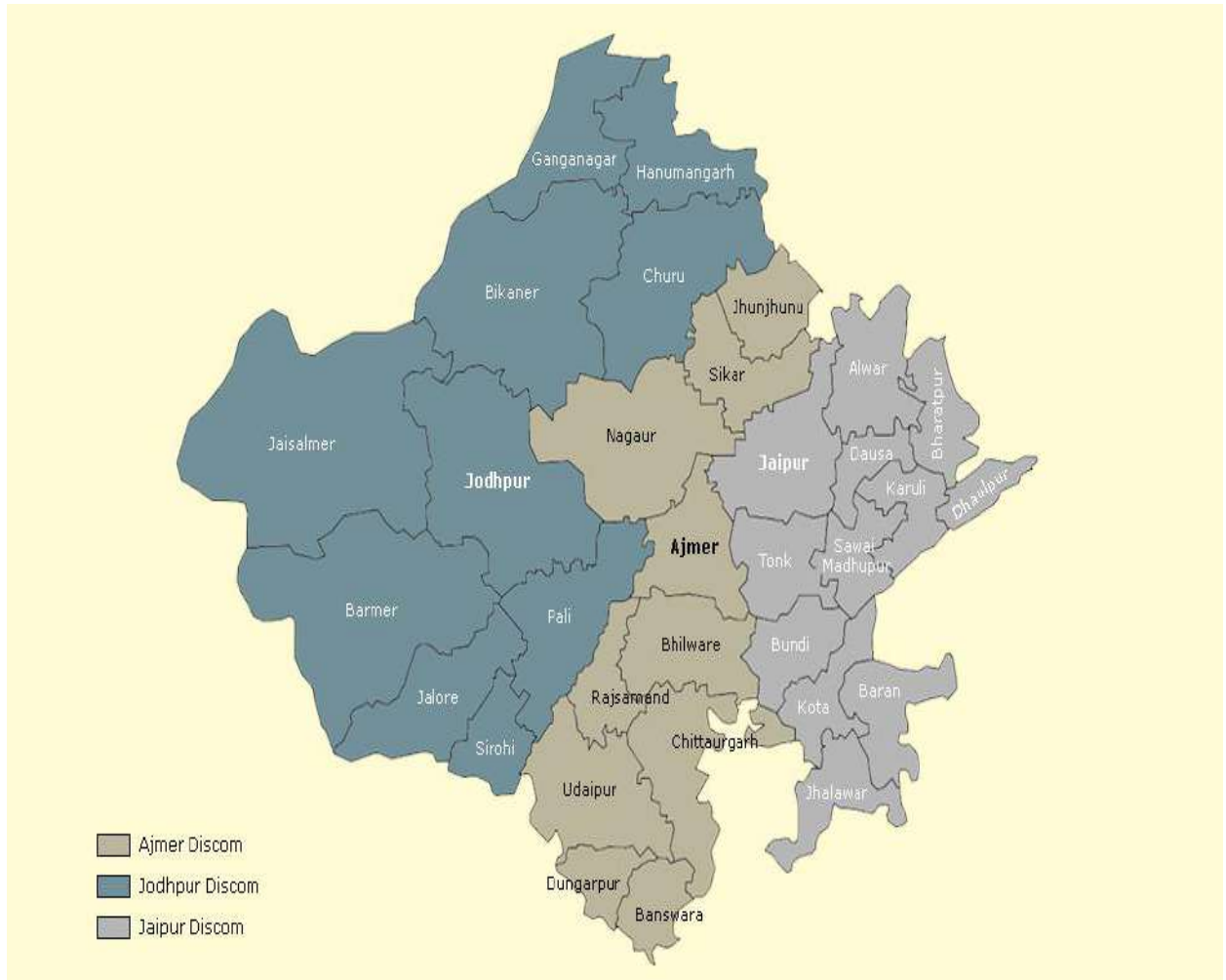


Figure 1 Rajasthan Electrical Distribution Network

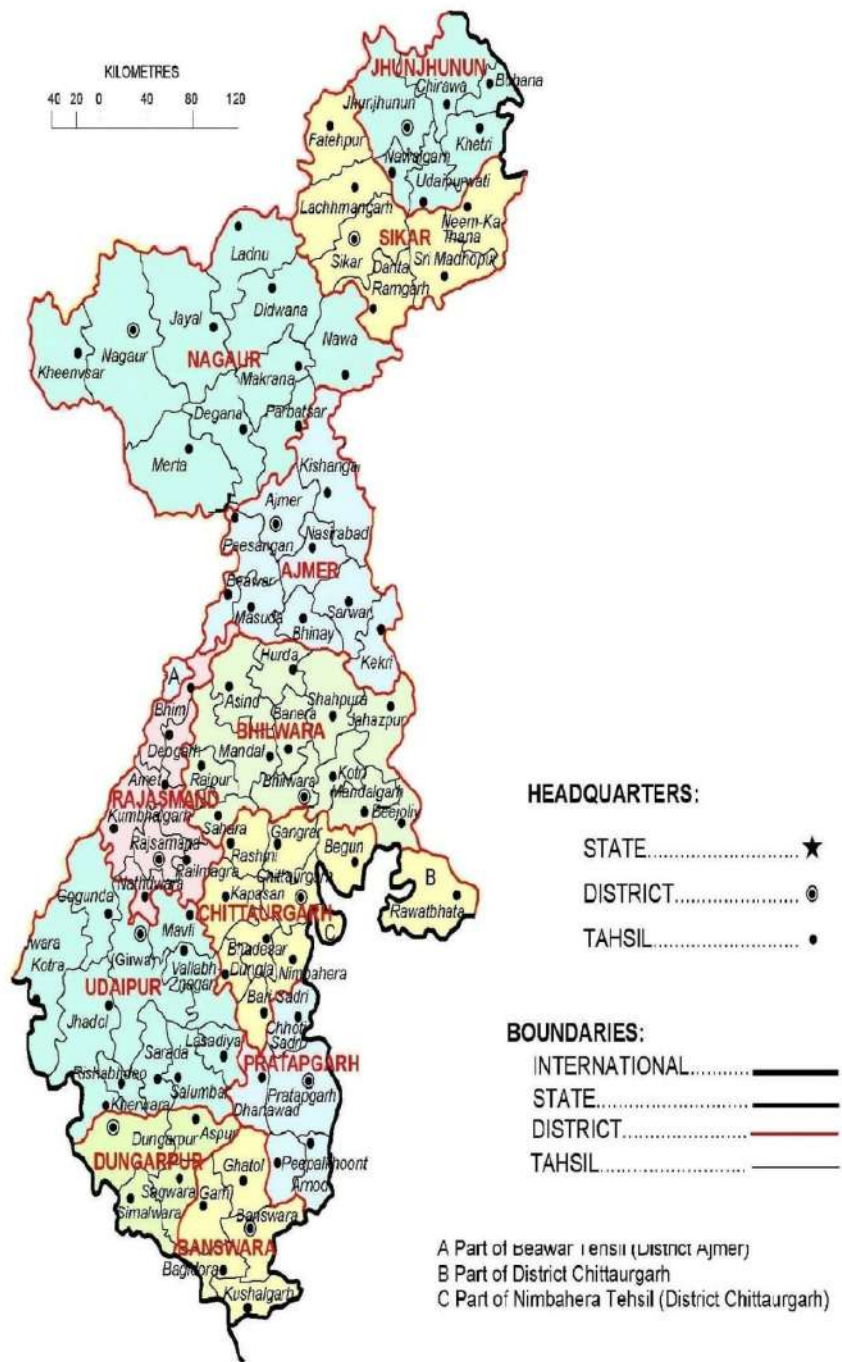
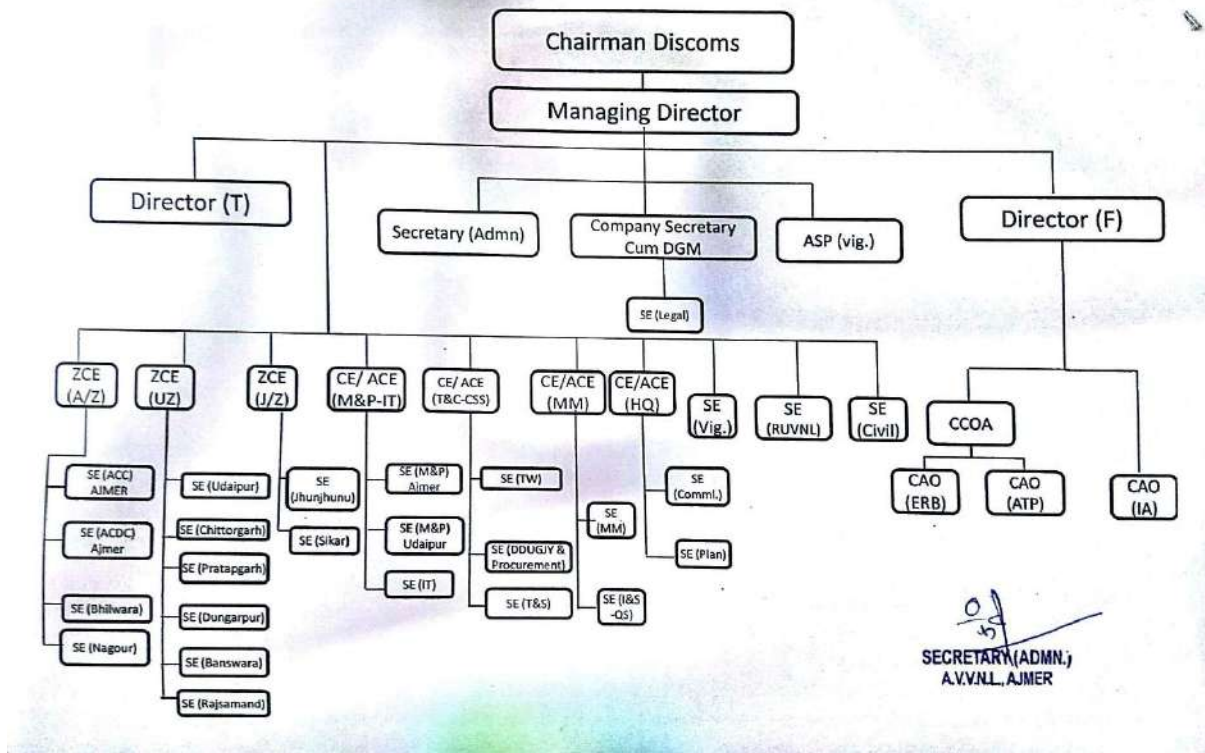


Figure 2 AVVNL Geographical map

Organizational Chart of Ajmer Discom as on 25.04.2018



SECRETARY (ADMN.)
A.V.V.N.L. AJMER

Figure 3 Ajmer Discom Organization Chart

3.3.2 AVVNL Infrastructure details

The infrastructure details of AVVNL are tabulated as under.

Table 6 AVVNL Infrastructure details

AVVNL Network Snapshot	
Number of circles	12
Number of divisions	50
Number of sub-divisions	202
Number of feeders at 66 kV level	0
Number of feeders at 33 kV level	997
Number of feeders at 11 kV level	117085
Number of LT feeders	5486860
Number of DTs	696587
Line length (ckt km) at 66 kV level	0
Line length (ckt km) at 33 kV level	16995.671
Line length (ckt km) at 11 kV level	172586.52
Line length (km) at LT level	91706.112
Length of aerial bunched cables	112094.132
Length of underground cables	2868
HT/LT ratio	0.93

- There is no electrical network of 66 kV in Ajmer Discom

Table 7 AVVNL Circle level details with Consumer category

S.No.	Name of Circle	Number of Sub-divisions	Consumer Category					Total
			Residential	Agricultural	Commercial/Industrial LT	Commercial/Industrial HT	Others	
1	Ajmer City Circle (excluding TPADL)	9	194964	19117	27096	280	510	241967
2	Ajmer District Circle	11	249004	23019	31455	2000	1108	306586
3	Banswara	11	298438	24594	14907	147	3422	341508
4	Dungarpur	9	298559	39171	1986	50	15708	355474
5	Bhilwara	19	487400	76414	48555	909	1984	615262
6	Chittorgarh	17	271952	85563	5276	308	24792	387891
7	Pratapgarh	8	149161	49221	7996	28	651	207057
8	Jhunjhunu	22	443003	65467	56038	158	1336	566002
9	Nagaur	29	587638	55649	61612	1498	2056	708453
10	Sikar	27	547717	77961	75907	1097	1736	704418
11	Udaipur	27	607901	67755	62400	2029	2081	742166
12	Rajasamand	13	256302	26277	25402	1060	1035	310076
Total		202	4392039	610208	418630	9564	56419	5486860

- The data in the table is excluding the data of TPADL franchise.

Table 8 AVVNL Circle Level consumer distribution

S.No.	Name of Circle	% of consumers of AVVNL
1	Ajmer City Circle	4.41%
2	Ajmer District Circle	5.59%
3	Banswara	6.22%
4	Dungarpur	6.48%
5	Bhilwara	11.21%
6	Chittorgarh	7.07%
7	Pratapgarh	3.77%
8	Jhunjhunu	10.31%
9	Nagaur	12.91%
10	Sikar	12.84%
11	Udaipur	13.53%
12	Rajasamand	5.65%
Total	100.00%	

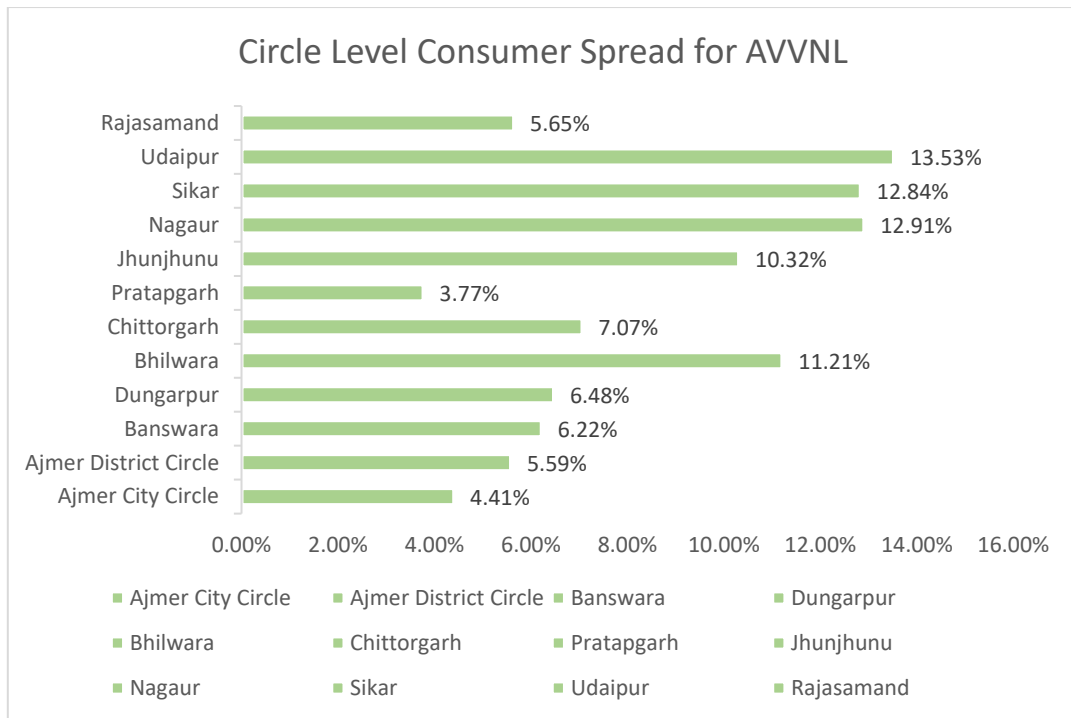


Figure 4 Circle level Consumer Spread for AVVNL

3.3.3 Energy flow

The input energy flow at all injection points of the DISCOM are as shown in the table:

Table 9 Energy flow at input energy injection points

Feeder Name	Import (MU)	Export (MU)	Net Energy (MU)
33 KV Piplaj	64.68	0.00	64.68
33 KV Masuda	50.06	0.00	50.06
33 KV Radhawalbh	75.54	0.00	75.54
33 KV RIICO	25.34	0.00	25.34
33 KV IOC	40.13	0.00	40.13
33 KV Gadi Thoriyan	14.32	0.00	14.32
33 KV Power House	49.46	0.00	49.46
33 KV Ajmer Road RIICO	43.88	0.00	43.88
33 KV Jawaja	46.63	0.00	46.63
33 KV Babra	25.81	0.00	25.81
33 KV O/G Bar	10.30	0.00	10.3
33 KV DRDO	1.40	0.00	1.4
33 KV Bus coupler	0.00	0.00	0
33 KV Outgoing Shergarh	17.61	0.00	17.61
33 KV Outgoing Masuda	18.70	0.00	18.7
33 KV Outgoing Kharwa	9.65	0.00	9.65
33 KV Outgoing Jamola	13.82	0.00	13.82

33 KV Outgoing Bus coupler		0.13	0.00	0.13
33 KV Shastri Nagar CD-I		16.61	0.00	16.61
33 KV Power House CD-I		60.72	0.00	60.72
33 KV Hajari Bagh CD-II		36.92	0.00	36.92
33 KV Bus Cupler I st CD-I		0.05	0.00	0.05
33 KV Bus Cupler II nd CD-I		0.06	0.00	0.06
33 KV H.M.T. CD-II		2.65	0.00	2.65
33 KV Madar DD		20.17	0.00	20.17
33 KV Gagwana DD		25.30	0.00	25.3
33 KV Mayo College CD-II		41.43	0.00	41.43
33 KV Raj Mahal Ist CD-II		24.42	0.00	24.42
33kv Badliya DD+Palra		45.15	0.00	45.15
33 KV Parbatpura CD-II		20.60	0.00	20.6
33 KV Railways CD-II		2.45	0.00	2.45
33 KV Pisangan Feeder DD		17.52	0.00	17.52
33 KV Bhanwata Feeder DD		39.02	0.00	39.02
33 KV HMT Feeder CD-II		41.55	0.00	41.55
33 KV Mangliyawas Feeder DD		16.64	0.00	16.64
33 KV HPCL DD		1.31	0.00	1.31
33 /11 KV T/F (SRD) DD		14.84	0.00	14.84
33 KV Bus Cupler		0.00	0.00	0
33 KV ShastriNagar Feeder -2 CD-I		41.76	0.00	41.76
33 KV Vaishali Nagar Feeder CD-I		42.63	0.00	42.63
33 KV Panch Sheel Feeder CD-I		28.35	0.00	28.35
33 KV Pushkar Feeder DD		0.00	0.00	0
33 KV Gegal Feeder DD		23.01	0.00	23.01
33/11 KV Transformer DD		17.81	0.00	17.81
33 KV Jaipur Road DD		6.05	0.00	6.05
33 KV HZL DD		10.17	0.00	10.17
33 KV Bus Cupler		0.01	0.00	0.01
33 KV O/G Pushkar DD		56.10	0.00	56.1
33 KV O/G kadail DD		7.85	0.00	7.85
33 KV O/G Nand DD		18.78	0.00	18.78
33 Kv O/G Kanas DD		6.53	0.00	6.53
33 KV OG Bus Coupler		0.00	0.00	0
33 KV REGIONAL COLLAGE CD-I		32.61	0.00	32.61
33 KV LONGIYA O/G CD-I		41.13	0.00	41.13
33 KV CRPF -II O/G CD-I		27.00	0.00	27
33 KV Pushker O/G CD-I		5.63	0.00	5.63
33 KV CV NAGAR		34.87	0.00	34.87
33 KV KOTRA		12.79	0.00	12.79
33 KV OG Bus Coupler		0.00	0.00	0
33 KV Subhash Nagar CD-II		18.78	0.00	18.78

33 KV Parbatpura CD-II	39.16	0.00	39.16
33 KV HMT Feeder CD-II	0.00	0.00	0
33 KV OG Bus Coupler	0.00	0.00	0
33 KV O/G Nagelaw DD	14.39	0.00	14.39
33 KV O/G Pishanganj DD	31.13	0.00	31.13
33 KV O G PGCIL DD	0.00	0.00	0
33 KV O G Jethana DD	7.20	0.00	7.2
33 KV Mangliyawas DD	10.13	0.00	10.13
33 KV Lamana DD	33.40	0.00	33.4
33 KV O/G Bus Coupler	0.00	0.00	0
Dansariya Feeder (export to Jawaja)	0.00	0.09	-0.09
Kukda Feeder (export to Jawaja)	0.00	0.00	0
DRDO	0.00	1.43	-1.43
Ajeetghar Feeder (export to Jawaja)	0.00	0.00	0
Export to Nasirabad(Bithoor)	0.00	13.37	-13.37
Export to Nasirabad(from Bhawani khera)	0.00	9.94	-9.94
33 KV PS-6	29.45	0.00	29.45
33 KV Nasirabad	36.58	0.00	36.58
33 KV Ramsar	22.42	0.00	22.42
33 KV Srinagar	19.76	0.00	19.76
33KV BHINAI	33.21	0.00	33.21
33 KV MES	19.01	0.00	19.01
33 KV O/G FDR. NO. 1 RAJMAHAL -I	11.34	0.00	11.34
33 KV O/G FDR. NO. 2 RAJMAHAL-II	1.57	0.00	1.57
33 KV O/G FDR. NO. 3 KALERA	30.09	0.00	30.09
33 KV O/G FDR. NO. 4 SAWAR	28.27	0.00	28.27
33 KV O/G FDR. NO. 5 Kekri City	47.42	0.00	47.42
33 KV O/G FDR. NO. 6 KADERA	13.36	0.00	13.36
33 KV O/G FDR. NO. 7 FILTER PLANT KEKRI	5.09	0.00	5.09
33 KV O/G FDR. NO. 8 BAGHERA	7.82	0.00	7.82
33 KV O/G FDR. NO. 9 SARWAR	46.28	0.00	46.28
33 KV O/G FDR. NO. 10 BISALPUR PROJECT	42.24	0.00	42.24
33 KV B/C	0.00	0.00	0
33 KV O/G FDR. NO. 1 SAWAR	26.10	0.00	26.1
33 KV O/G FDR. NO. 2 RAJPURA	9.65	0.00	9.65
33 KV O/G FDR. NO. 3 GHATIYALI	6.24	0.00	6.24
33 KV O/G FDR. NO. 4 MEHRUKALA	3.96	0.00	3.96
33 KV B/C	0.00	0.00	0

33 KV RIICO H.R.	66.46	0.00	66.46
33 KV Housing Board	30.94	0.00	30.94
33 KV R.K. Marble	1.96	0.00	1.96
33 KV Madanganj	32.60	0.00	32.6
33 KV Riico M/R	86.65	0.00	86.65
33 KV Patan Arai	0.00	0.00	0
33 KV RIICO P.M.	103.42	0.00	103.42
33 KV Kali Doongri WW	46.78	0.00	46.78
33 KV Makrana Road	82.23	0.00	82.23
33 KV BusCoupler	0.00	0.00	0
33 KV MR	1.98	0.00	1.98
33 KV Kucheel	77.15	0.00	77.15
33 KV Airport	0.02	0.00	0.02
33 KV HOUSING BOARD	0.58	0.00	0.58
33 KV LAXMI NAGAR	68.53	0.00	68.53
33 KV O/G Purshotem Nagar	43.07	0.00	43.07
33 KV O/G Godiyana & Udaipur Kala	61.94	0.00	61.94
33 KV O/G KHTPL	18.23	0.00	18.23
33 KV O/G Water Works & I.A Silora	54.79	0.00	54.79
33 KV NEW HOUSING BOARD	24.78	0.00	24.78
33 KV O/G Sursura	89.02	0.00	89.02
33 KV O/G Roopangarh	72.59	0.00	72.59
33 KV O/G Kothri	22.14	0.00	22.14
33 KV O/G Mega Food Park	1.44	0.00	1.44
33 KV Arai	13.32	0.00	13.32
33 KV ARAI Water works	1.67	0.00	1.67
33 KV Dudiya	5.78	0.00	5.78
33 KV (JIROTA)	1.96	0.00	1.96
33 KV (SIRONJ)	11.63	0.00	11.63
33 KV BusCoupler	0.00	0.00	0
33 KV Birla	3.92	0.00	3.92
33 KV Patan	39.97	0.00	39.97
33 KV BANDARSINDRI	6.26	0.00	6.26
33 kv harmada	0.17	0.00	0.17
33 KV Jaliya Bandanwara No. - 4	24.26	0.00	24.26
33 KV Bijay Nagar	42.89	0.00	42.89
33 KV Champanare	21.88	0.00	21.88
33 KV RIICO Bijay Nagar	5.53	0.00	5.53
Export to bhinay from 132 kv jamola gss	7.07	0.00	7.07
Import from ACC	0.00	0.00	0
RICCO-II	28.77	0.00	28.77
Laduwas	4.90	0.00	4.9
Mandal	55.66	0.00	55.66
JODHRAS	30.74	0.00	30.74
BSL PANSAL	50.51	0.00	50.51

RIICO-I	41.31	0.00	41.31
Power-House	62.24	0.00	62.24
Azad Nagar	58.73	0.00	58.73
B/C-I	0.15	0.00	0.15
B/C-II	7.02	0.00	7.02
SAWAIPUR	4.38	0.00	4.38
MOTIBAOJI	51.73	0.00	51.73
PANCHWATI	61.15	0.00	61.15
SUWANA	10.35	0.00	10.35
KANKROLIA GHATI	6.38	0.00	6.38
B/C	5.53	0.00	5.53
SOLANKIYO KHEDA	18.65	0.00	18.65
RUPAHELI	20.29	0.00	20.29
Gangapur	15.10	0.00	15.1
Bhunas	35.70	0.00	35.7
Potlan	14.45	0.00	14.45
KAROI	27.73	0.00	27.73
Devria	5.60	0.00	5.6
Gadawat textile solar	0.02	0.00	0.02
B/C	8.88	0.00	8.88
33/11 KV 3.15 MVA X'-MER	3.39	0.00	3.39
SAHADA	10.21	0.00	10.21
I- BIGOD	10.06	0.00	10.06
III NANDRAI	11.21	0.00	11.21
IV JALIYA	9.47	0.00	9.47
Ranikeda	13.65	0.00	13.65
b/c	0.34	0.00	0.34
BIJOLIYA	13.22	0.00	13.22
SALAVATIYA	25.53	0.00	25.53
TILASWA	4.19	0.00	4.19
BHUNJAR KALA	0.00	0.00	0
B/C	15.63	0.00	15.63
RIICO-I	12.03	0.00	12.03
BHOPATPURA	5.35	0.00	5.35
UMAJI KA KHERA	9.17	0.00	9.17
II Chitamba	46.33	0.00	46.33
III Bemali	34.32	0.00	34.32
KAREDA	11.58	0.00	11.58
BADI	7.36	0.00	7.36
B/C	0.15	0.00	0.15
RIICO III	117.62	0.00	117.62
RIICO IV	95.09	0.00	95.09
AZADNAGAR	77.49	0.00	77.49
B/C	0.25	0.00	0.25
PHED	0.00	0.00	0
Koshithal	27.23	0.00	27.23
Raipur	12.60	0.00	12.6

B/C	0.00	0.00	0
MOKHUNDA	9.97	0.00	9.97
O/G NO.2 HURDA	18.70	0.00	18.7
O/G RUPAHELI	24.44	0.00	24.44
O/G NO.5 SUZUKI	2.16	0.00	2.16
O/G NO.7 SPINFED	8.80	0.00	8.8
O/G NO.8 AMRIT ENERGY	0.00	0.00	0
B/C	0.00	0.00	0
11 KV INCOMER	12.95	0.00	12.95
RAILA	33.06	0.00	33.06
JaswantPura	24.00	0.00	24
GAYATRI	28.14	0.00	28.14
BANERA	11.80	0.00	11.8
EMINENT	11.77	0.00	11.77
BABA	13.38	0.00	13.38
B/C	13.66	0.00	13.66
SUZUKI SUITING	33.33	0.00	33.33
SUZUKI SPINNERS	4.26	0.00	4.26
DANTA	37.93	0.00	37.93
SITARAM DENIM	16.02	0.00	16.02
B/C	1.13	0.00	1.13
PHED-DANTA	20.17	0.00	20.17
DHIKOLA	12.45	0.00	12.45
PAROLI	26.59	0.00	26.59
SHAHPURA	20.55	0.00	20.55
HZL	3.03	0.00	3.03
KOTHIYA PANOTIA	24.44	0.00	24.44
SURAJPURA	6.74	0.00	6.74
RDA Solar Energy	0.07	0.00	0.07
B/C	0.59	0.00	0.59
33 KV O/G RAHAD	6.93	0.00	6.93
JAHAJPUR	34.35	0.00	34.35
PANDER	0.02	0.00	0.02
B/C	0.16	0.00	0.16
33 KV PANDER SPARE BAY	19.06	0.00	19.06
O/G-I BSL	28.63	0.00	28.63
O/G-II GATHILA KHERA	0.94	0.00	0.94
O/G SONA PROCESSORS	8.50	0.00	8.5
O/G-IV GROWTH CENTRE	89.19	0.00	89.19
O/G-V SANGAM	50.97	0.00	50.97
O/G-VI OZARA	96.82	0.00	96.82
O/G-VII GADARMALA	16.85	0.00	16.85
O/G-IX AZADNAGAR	76.96	0.00	76.96
O/G-VIII	52.13	0.00	52.13
B/C	2.17	0.00	2.17
Asind	31.94	0.00	31.94
B.K.Sareri	19.77	0.00	19.77

Bheem	15.81	0.00	15.81
Badnor	19.51	0.00	19.51
Shambhugarh	7.57	0.00	7.57
PHED	0.96	0.00	0.96
B/C	4.04	0.00	4.04
DAULATGARH	21.77	0.00	21.77
MANPURA	19.41	0.00	19.41
KACHHOLA	15.59	0.00	15.59
MANPURA IMPORT	-0.09	0.00	-0.09
JHANJHOLA HARPURA	6.91	0.00	6.91
B/C	0.54	0.00	0.54
33 kv o/g bhagu nagar	11.00	0.00	11
ANTALI	6.78	0.00	6.78
JALAMPURA	12.14	0.00	12.14
AMESAR	24.87	0.00	24.87
B/C	0.02	0.00	0.02
JOJWA	5.99	0.00	5.99
SHAYAMPURA	21.83	0.00	21.83
LADPURA	0.02	0.00	0.02
SINGOLI	25.17	0.00	25.17
KACHHOLA	8.43	0.00	8.43
B/C	3.74	0.00	3.74
33/11 KV	3.85	0.00	3.85
RIICO I	66.96	0.00	66.96
RIICO II	49.56	0.00	49.56
SWAROPGANG	28.70	0.00	28.7
MINOVA	8.59	0.00	8.59
RSWM	4.28	0.00	4.28
33KV JAHAJPUR(O/G)	24.33	0.00	24.33
33 KV PANDER(O/G)	18.25	0.00	18.25
B/C	0.44	0.00	0.44
B/C	0.32	0.00	0.32
KOTRI	34.11	0.00	34.11
SAWAIPUR	15.50	0.00	15.5
KISHANGARH	3.50	0.00	3.5
PHED	4.62	0.00	4.62
LADPURA	6.60	0.00	6.6
MANDALGARH	0.09	0.00	0.09
11 kv O/G OM-METAL	5.85	0.00	5.85
33kv Khari ka Lamba Hurda	3.55	0.00	3.55
M/S SSR STONEX TO AEN(ONM) KAREDA	0.06	0.00	0.06
SP GRANITE	0.02	0.00	0.02
33 KV O/G Karlu	8.52	0.00	8.52
33 KV O/G Inana	12.81	0.00	12.81
33 KV O/G Basni Road	38.40	0.00	38.4
33 KV O/G Bher	50.44	0.00	50.44

33 KV O/G Barli	54.24	0.00	54.24
33 KV O/G Rest House	36.79	0.00	36.79
33 KV O/G Rol	26.13	0.00	26.13
33 KV O/G Jodhiyasi	13.63	0.00	13.63
33 KV O/G Manasar	3.94	0.00	3.94
33 KV Bus-Coupler	2.66	0.00	2.66
33 KV O/G BHAWANDA	28.87	0.00	28.87
33 KV O/G KHUNDALA	15.32	0.00	15.32
33 KV O/G Nagari	49.34	0.00	49.34
33 KV O/G LALAP	23.36	0.00	23.36
33 KV O/G PANCHLA	50.19	0.00	50.19
33 KV O/G KANTIYA	11.52	0.00	11.52
33 KV O/G HAMIRANA	17.17	0.00	17.17
33 KV O/G KHINWSAR PHED	25.27	0.00	25.27
33 KV O/G KHINWSAR CITY	11.71	0.00	11.71
33 KV Bus-Coupler	36.30	0.00	36.3
33 KV O/G JANANA	14.93	0.00	14.93
33 KV O/G NIMBRI	45.70	0.00	45.7
33 KV O/G GAJU	13.26	0.00	13.26
33 KV O/G KHAJWANA	46.91	0.00	46.91
33 KV O/G RSMM	0.92	0.00	0.92
33 KV O/G KUCHERA	18.96	0.00	18.96
33 KV O/G ARWAR	15.01	0.00	15.01
33 KV O/G PHED	0.54	0.00	0.54
11 KV O/G SANSARANADA	3.76	0.00	3.76
11 KV O/G KHATU ROAD	0.90	0.00	0.9
11 KV O/G BUTATIROAD	3.90	0.00	3.9
33 KV Bus Coupler	12.97	0.00	12.97
33 KV O/G SANKHWAS	42.16	0.00	42.16
33 KV O/G MUNDWA	20.43	0.00	20.43
33 KV O/G KHARDA	27.73	0.00	27.73
33 KV O/G KYAR KI DHANI	4.55	0.00	4.55
33KV O/G PHED MUNDWA	12.61	0.00	12.61
33 KV Bus Coupler	1.99	0.00	1.99
33 KV ROON	22.59	0.00	22.59
33 KV ROON CITY	11.95	0.00	11.95
33 KV ASAWARI	23.21	0.00	23.21
33 KV GAWALOO	14.35	0.00	14.35
33 KV INDOKALI	23.80	0.00	23.8
33 KV BIRLOKA	119.55	0.00	119.55
33 KV SANIK NAGAR	0.00	0.00	0
33 KV AACHINA/DEU	0.00	0.00	0
33 KV PANCHORI/KARNU	0.00	0.00	0
33 KV PIPLIYA	0.00	0.00	0
33 KV PIPLIYA/HEMPURA	0.00	0.00	0
33 KV PANCHORI	179.29	0.00	179.29
33 KV O/G BARBATA	16.20	0.00	16.2

33 KV O/G KURCHI	45.88	0.00	45.88
33KV O/G PANCHLA SIDDHA	38.55	0.00	38.55
33 KV O/G PAPPASNI	24.52	0.00	24.52
Gusai ji Energy Pvt Ltd	2.91	0.00	2.91
33 KV OG NARWA	34.90	0.00	34.9
33 KV Bus Coupler	0.00	0.00	0
33 KV O/G PUNAS	24.21	0.00	24.21
33 KV O/G BUTATI FEEDER	33.37	0.00	33.37
33 KV O/G BHEERU JI KA CHORAYA	9.89	0.00	9.89
33 KV O/G DEEDWANA	49.45	0.00	49.45
33 KV O/G KHUNKHUNA	35.21	0.00	35.21
33 KV O/G JAYAL	31.85	0.00	31.85
33 KV O/G DAULTPURA	28.37	0.00	28.37
33 KV O/G NUWA	1.63	0.00	1.63
33KV O/G BUS COUPLER	1.65	0.00	1.65
33KV O/G NO. MOLASAR	17.15	0.00	17.15
33KV O/G NO. JETPURA	29.19	0.00	29.19
33KV O/G NO.DHANKOLI	19.39	0.00	19.39
33KV O/G NO. KHANKOLI	13.00	0.00	13
33KV O/G NO. BAWRI	7.90	0.00	7.9
33KV O/G NO.LADARIYA	22.57	0.00	22.57
33KV O/G NO.PHED	0.22	0.00	0.22
33KV O/G BUS COUPLER	0.04	0.00	0.04
33KV O/G Jayal	26.91	0.00	26.91
33KV O/G Rotu	23.00	0.00	23
33KV O/G Kathoti	23.31	0.00	23.31
33KV O/G Unchaida	46.11	0.00	46.11
33 KV PHED	7.17	0.00	7.17
33 KV BARNEL	8.18	0.00	8.18
33kv kerap phed	7.19	0.00	7.19
33KV O/G BUS COUPLER	7.55	0.00	7.55
33 KV OG DINDRPURA	29.98	0.00	29.98
33 KV OG LALASARI	8.18	0.00	8.18
33 KV OG DHAYAWA	0.79	0.00	0.79
33 KV OG SHAPURA	0.00	2.86	-2.86
33 KV OG BC	1.90	0.00	1.9
33KV O/G JHADELI	19.57	0.00	19.57
33KV O/G DEH	36.85	0.00	36.85
33KV O/G SOMNA	16.18	0.00	16.18
33KV O/G PHED	9.83	0.00	9.83
33 KV O/G Odint	22.45	0.00	22.45
33 KV o/G Sunari	9.07	0.00	9.07
33 KV o/G Ladnun	49.57	0.00	49.57
33 KV O/G Bakaliya	55.38	0.00	55.38
33 KV O/G Nimbi Jodha	25.88	0.00	25.88
33 KV O/G PHED	6.87	0.00	6.87

33 KV OG BC	14.50	0.00	14.5
33 KV O/G Bidiyad/gunawati	9.38	0.00	9.38
33 KV O/G , Parbatsar	5.92	0.00	5.92
33 KV O/G , Gachhipura	17.43	0.00	17.43
33 KV O/G Makrana City	27.26	0.00	27.26
33 KV O/G , Bichawa	34.55	0.00	34.55
33 KV O/G , Manglana	12.68	0.00	12.68
33 KV O/G , Makrana City-II	39.28	0.00	39.28
33 KV O/G , Budsu	21.19	0.00	21.19
33 KV Bus-Coupler	6.23	0.00	6.23
33 KV O/G RIICO	43.08	0.00	43.08
33 KV O/G KINSARIYA	3.36	0.00	3.36
33 KV O/G PHED	0.54	0.00	0.54
33 KV O/G RBL	6.13	0.00	6.13
33 KV BUS COUPLER	0.06	0.00	0.06
33 KV O/G BAGOT	14.04	0.00	14.04
33 KV O/G ROHINDI	10.39	0.00	10.39
33 KV O/G PEELAWA	20.21	0.00	20.21
33 KV O/G HARNAWA	18.11	0.00	18.11
33 KV O/G GULAR	7.06	0.00	7.06
33 KV O/G phed GULAR	0.55	0.00	0.55
33 KV O/G PHED PEELWA	0.37	0.00	0.37
33 KV BUS COUPLER	12.74	0.00	12.74
33 KV O/G BIDIYAD	71.80	0.00	71.8
33 KV O/G BILLU	1.64	0.00	1.64
33 KV O/G BHADHWA	20.86	0.00	20.86
33 KV O/G PHED BORAWAR	10.37	0.00	10.37
33 KV Bus-Coupler	6.48	0.00	6.48
33 KV O/ Jasnagar	28.59	0.00	28.59
33 KV O/G Mungdara	18.20	0.00	18.2
33 KV O/G Indawar	18.80	0.00	18.8
33 KV O/G Bhanas	20.11	0.00	20.11
33 KV O/G RICCO MTC	51.68	0.00	51.68
33 KV O/G Sirsla	38.69	0.00	38.69
33 KV O/G Nolasagar	27.57	0.00	27.57
33 KV O/G Nahari Project	0.93	0.00	0.93
33 KV O/G Merta City	0.00	0.00	0
33 KV Bus-Coupler,BHANAS	0.02	0.00	0.02
33 KV O/G MERTA ROAD	41.23	0.00	41.23
33 KV O/G KUMPRAS	24.61	0.00	24.61
33 KV O/G GAGUDA	32.49	0.00	32.49
33KV O/G JAJRAWAS	14.59	0.00	14.59
33 KV O/G CHHAPRI	22.44	0.00	22.44
33 KV O/G JARODA BASNI	21.09	0.00	21.09
33 KV PHED	0.50	0.00	0.5
33 KV O/G NO.1 GOTAN	19.78	0.00	19.78

33KV O/G NO3 (SANGVON KI DHANI)	17.24	0.00	17.24
33KV O/G NO4 (HARSOLAV)	29.95	0.00	29.95
33KV O/G NO5 (NOKHA+SHIV)	34.96	0.00	34.96
33KV BUS-COUPLER	15.37	0.00	15.37
33 KV RIYA BADI	20.50	0.00	20.5
33 KV ALNIYAWAS	15.63	0.00	15.63
33 KV Rohisa	6.93	0.00	6.93
33 KV Riya PHED	0.09	0.00	0.09
33 KV Bhawal PHED	0.14	0.00	0.14
Lamba Jatan	20.98	0.00	20.98
Riyan	23.55	0.00	23.55
Basani Seja	7.85	0.00	7.85
Gagrana	12.63	0.00	12.63
Mokala	14.35	0.00	14.35
Dhadasani	1.62	0.00	1.62
33KV Buscoupler	3.70	0.00	3.7
33KV Buscoupler	0.00	0.00	0
33 KV O/G SANJOO	17.98	0.00	17.98
33 KV O/G BARSUNA	37.67	0.00	37.67
33KV O/G KHATU	28.59	0.00	28.59
33 KV O/G DEGANA	12.03	0.00	12.03
33 KV O/G BARNA	19.51	0.00	19.51
33 KV O/G DUGOR	34.59	0.00	34.59
33 KV O/G KHIWATANA	15.37	0.00	15.37
33 KV O/G GELOLI	24.99	0.00	24.99
33 KV O/G DOTINA	5.38	0.00	5.38
33 KV O/G PHED	0.01	0.00	0.01
33 KV Bus Coupler	1.87	0.00	1.87
33 KV O/G Peeh	20.52	0.00	20.52
33 KV O/G Bherunda	15.18	0.00	15.18
33 KV O/G PADU KALAN	23.34	0.00	23.34
33 KV O/G Thanwala	38.01	0.00	38.01
33 KV O/G Harsore	28.03	0.00	28.03
33 KV O/G Nimbri	9.65	0.00	9.65
33 KV O/G Alniyawas	14.72	0.00	14.72
33 KV O/G PHED 1	0.01	0.00	0.01
33 KV O/G PHED 2	0.00	0.00	0
33 KV O/G PHED 3	0.20	0.00	0.2
33 KV Bus Coupler	0.94	0.00	0.94
33 KV OG DEGANA	28.39	0.00	28.39
33 KV OG IDWA	12.62	0.00	12.62
33 KV OG KITALSER	6.90	0.00	6.9
33 KV OG PHED	1.19	0.00	1.19
33KV O/G Jiliya	17.32	0.00	17.32
33KV O/G Panchwa	24.86	0.00	24.86
33KV O/G Kuchaman	53.24	0.00	53.24

33KV O/G Bhanwta	32.38	0.00	32.38
33KV O/G Nimod	18.58	0.00	18.58
33KV O/G Rooppura	14.15	0.00	14.15
33 KV OG PHED	5.00	0.00	5
33KV BUSCOUPLER	4.61	0.00	4.61
33kv O/G CHITAWA	27.98	0.00	27.98
33kv O/G INDALI	17.64	0.00	17.64
33kv O/G ADAKSAR	16.53	0.00	16.53
33kv O/G NANGWARA	14.84	0.00	14.84
33kv O/G KALOLI	16.41	0.00	16.41
33kv O/G PHED	0.57	0.00	0.57
33 KV O/G GUGARWAR	14.92	0.00	14.92
33kv O/G BUS COUPLER	2.60	0.00	2.6
33 KV O/G GOGOR	15.09	0.00	15.09
33 KV O/G RAJAS	23.17	0.00	23.17
33 KV O/G NAWA	41.79	0.00	41.79
33 KV O/G MAROTH	11.89	0.00	11.89
33 KV O/G MITHRI	19.81	0.00	19.81
11KV Rasa Farms Solar Kansera	0.30	0.00	0.3
33kv O/G BUS COUPLER	12.96	0.00	12.96
33 KV O/G RSPL	6.79	0.00	6.79
33kv O/G GOGELAV DAM	7.14	0.00	7.14
33kv O/G ALAY PHED	23.83	0.00	23.83
33kv O/G BASNI PHED	15.04	0.00	15.04
33kv O/G BASNI	40.15	0.00	40.15
33kv O/G BUS COUPLER	3.44	0.00	3.44
33 KV o/g Khorandi	31.06	0.00	31.06
Khorandi thr B/C	0.00	0.00	0
Diff betn. I/C & O/G Khorandi	0.05	0.00	0.05
33 KV o/g Lamba	44.56	0.00	44.56
LAMBA THR B/C	0.00	0.00	0
Diff betn. I/C & O/G Lamaba	0.06	0.00	0.06
Manda/Rajliya-Muhana	9.59	0.00	9.59
33 KV o/g MINDA	13.12	0.00	13.12
33/11 KV S/S Bhaislana(JVVNL)	0.00	4.74	-4.74
11 kv Thikariya (Nandri)	0.98	0.00	0.98
33 kv Beetan	7.47	0.00	7.47
33 kv Pundlu Feeder	19.74	0.00	19.74
33 kv Pundlu Feeder (BC)	0.00	0.00	0
11 kv Moti Batta	0.16	0.00	0.16
11 Kv Meera Minerals	0.22	0.00	0.22
11 Kv Balaji Kripa (old name: Surana Cement)	0.00	0.00	0
11 Kv Balaji Kripa (old name: Surana Cement)	0.27	0.00	0.27
11 Kv Bhojas	1.25	0.00	1.25
11 KV Natho ki Dhani -Kurki-1 (Navoda Vera)	0.01	0.00	0.01

11 KV Naiko Ki Dhani -Kurki-3(Daras)	0.00	0.07	-0.07
11 KV Tanwara Crasher	7.24	0.00	7.24
11 KV Malsisar	0.27	0.00	0.27
33 KV Ledi O/G FEEDER	16.48	0.00	16.48
BUS COUPLER	0.00	0.00	0
33 KV OPH FEEDER(33 KV Dhan Gss)	5.70	0.00	5.7
11 KV GULERIYA FEEDER	0.00	0.00	0
11 KV PHED	0.00	0.00	0
11 KV GANODA	0.11	0.00	0.11
HIRAWATI AG	0.00	0.00	0
11 kv khawaspura dhanapa	0.24	0.00	0.24
33KV Sihot	23.69	0.00	23.69
33KV Kachw/ Nani	17.79	0.00	17.79
33KV Mundwada	21.18	0.00	21.18
33KV Kanwarpura	34.27	0.00	34.27
33KV Gokulpura/Harsh	27.05	0.00	27.05
33KV Samrathpura	48.62	0.00	48.62
33KV Ind. Area	41.59	0.00	41.59
33KV Dak Bglw.	29.70	0.00	29.7
33KV Kudan	17.99	0.00	17.99
33KV Dadiya	29.83	0.00	29.83
33KV Rasidpura	48.28	0.00	48.28
33 KV Sabalpura	33.52	0.00	33.52
33 KV Losal	31.98	0.00	31.98
33 KV Bheema	17.35	0.00	17.35
33 KV Rampura	12.70	0.00	12.7
33 KV Jana	12.08	0.00	12.08
33 KV Mandeta	28.74	0.00	28.74
33 KV Khood	21.77	0.00	21.77
33 KV Sanglia	19.09	0.00	19.09
	-12.97	0.00	-12.97
33 o/g SEWAD	37.57	0.00	37.57
33 o/g KASLI	31.30	0.00	31.3
33 o/g SARWADI	25.74	0.00	25.74
33 o/g FATEHPURA	26.91	0.00	26.91
33 O/gBOSANA +Rajpura	17.61	0.00	17.61
33/11KV T/F	19.33	0.00	19.33
33 KV Kudan	17.06	0.00	17.06
33 KV O/g Paldi fdr	34.75	0.00	34.75
Dinarpura	20.45	0.00	20.45
33 KV Palthana	6.15	0.00	6.15
33 KV Dadia	34.09	0.00	34.09
33 o/g Hardyalpura	26.99	0.00	26.99
33 o/g Shyampura	26.99	0.00	26.99
33 o/g Piprali	26.99	0.00	26.99

33 o/g Raghunathgarh	26.99	0.00	26.99
33 o/g Sikar City Radhakisanpura	43.29	0.00	43.29
33kv Shivsingh pura	0.00	0.00	0
33KV Jajod	40.32	0.00	40.32
33KV Dantujala	23.40	0.00	23.4
33KV Jasrasar	31.49	0.00	31.49
33KV Khuri	29.01	0.00	29.01
33KV Lxm City-I	15.49	0.00	15.49
33KV Lxm City-II	10.02	0.00	10.02
33 o/g Vijayapura	45.80	0.00	45.8
33 o/g Kachhawa	13.19	0.00	13.19
33 o/g Bilunda	18.41	0.00	18.41
33 o/g Ghana	10.70	0.00	10.7
33 o/g Ghirniya	8.93	0.00	8.93
33 o/g Rolahsabsar	34.46	0.00	34.46
33 o/g UdhamSur	34.94	0.00	34.94
33 o/g Khudi	15.69	0.00	15.69
33 o/g Laxmangarh	9.02	0.00	9.02
33 KV Bus coupler	0.21	0.00	0.21
33KV T/F CITY Fatehpur	34.75	0.00	34.75
33 o/g Ranawa	30.68	0.00	30.68
33 o/g Balara	8.75	0.00	8.75
33 o/g Dudawa	20.92	0.00	20.92
33 o/g Basani	15.95	0.00	15.95
33 o/g Aantroli	4.75	0.00	4.75
33KV MEHAROLI	32.62	0.00	32.62
33KV THIKARIYA	26.80	0.00	26.8
33KV MACHAWALI	19.23	0.00	19.23
33KV BHOPATPURA	19.05	0.00	19.05
33KV SARGOTH	14.09	0.00	14.09
33 o/g Sargoth	19.81	0.00	19.81
33 o/g Airen Metal	19.81	0.00	19.81
33 o/g Riico Rgs	19.81	0.00	19.81
33 o/g D S Dairy	19.81	0.00	19.81
33 o/g Shree Kripa	19.81	0.00	19.81
33 o/g Vinayak	19.81	0.00	19.81
33/11 KV T/F	5.00	0.00	5
33KV O/G Bassi	16.75	0.00	16.75
BASSI thr B/C	0.00	0.00	0
33 /11 s/s Tiwari ki Dhani	14.24	0.00	14.24
33KV O/G Bagariyawas	16.91	0.00	16.91
33KV O/G Srimadhampur	17.04	0.00	17.04
33KV O/G Goriyan	18.70	0.00	18.7
33KV O/G DeraRamsagar	2.76	0.00	2.76
33 O/g Ranoli	21.80	0.00	21.8
33 O/g TodiMadhopura	26.82	0.00	26.82
33 O/g Palsana	31.70	0.00	31.7

33 O/g RohiRaipura	24.00	0.00	24
33 O/g Jhurathada	19.45	0.00	19.45
33 o/g Riico	14.03	0.00	14.03
33 KV o/g- Ajmeri	26.53	0.00	26.53
33 o/g Mangarh	14.18	0.00	14.18
33 o/g Ajeetgarh	12.68	0.00	12.68
33 o/g Mundroo	26.45	0.00	26.45
33 o/g Thoi	4.78	0.00	4.78
33 o/g Riico	44.86	0.00	44.86
33 KV o/g Kochhor	12.15	0.00	12.15
33 KV o/g Khorandi	31.06	0.00	31.06
33 KV o/g Ramgarh	12.05	0.00	12.05
33 KV o/g Bay	20.60	0.00	20.6
33 KV o/g Lamba	44.56	0.00	44.56
33 KV Danta	9.50	0.00	9.5
32 KV Godiawas	11.94	0.00	11.94
33 KV o/g Manda	15.73	0.00	15.73
33 o/g Kuli	4.38	0.00	4.38
33 o/g Karad	12.50	0.00	12.5
33 o/g Umada	13.03	0.00	13.03
33 o/g Pachar	26.03	0.00	26.03
33 KV Lampuwa	24.30	0.00	24.3
33 o/g Khatu	23.45	0.00	23.45
33 o/g Bay	23.45	0.00	23.45
33 o/g Aloda	23.45	0.00	23.45
33 o/g Lamia	23.45	0.00	23.45
33 o/g Gawadi	12.66	0.00	12.66
33 o/g Ganeshwar	27.03	0.00	27.03
33 o/g Kanwat	27.24	0.00	27.24
33 o/g Industrial Area	26.31	0.00	26.31
33 o/g Sorabh Cement	0.76	0.00	0.76
33 o/g Neemkathana	28.12	0.00	28.12
33 o/g Mounda	7.66	0.00	7.66
33 o/g Sirohi Challa	19.10	0.00	19.1
33 o/g Tatera	6.42	0.00	6.42
34 o/g hatideh	86.78	0.00	86.78
33 O/G AJMERI	6.73	0.00	6.73
33 kv TODA	27.03	0.00	27.03
33 kv HASAMPUR	29.47	0.00	29.47
33 kv DABLA	20.44	0.00	20.44
33 kv PATAN	26.71	0.00	26.71
33 o/g Khandela	18.86	0.00	18.86
33 o/g Dulhepura	5.62	0.00	5.62
33 o/g Badwari	7.18	0.00	7.18
33 o/g Chokri	4.95	0.00	4.95
33 o/g Doodh walon ka bas	7.36	0.00	7.36
33 o/g Goriya	10.53	0.00	10.53

33 o/g Kotri	9.40	0.00	9.4
33 o/g Kanwat	17.80	0.00	17.8
33 Thoi /Jhadali	15.24	0.00	15.24
33 o/g Pritampuri	15.24	0.00	15.24
33 o/g RoogPura	15.24	0.00	15.24
33 KV o/g Harsh	20.75	0.00	20.75
33 KV o/g Old Power House	44.71	0.00	44.71
33 KV o/g Idustrial Area	31.53	0.00	31.53
33 KV o/g New Harsh	12.99	0.00	12.99
33 KV o/g Todi Nagar	13.18	0.00	13.18
33 KV o/g RTO	23.47	0.00	23.47
Export To Nagour		85.32	-85.32
Export To Jhunjhunu		3.84	-3.84
Import from Jhunjhunu	128.17	0.00	128.17
Import from Nagour		12.25	-12.25
ENERGY EXPORT TO JVVNL	0.67	0.00	0.67
ENERGY IMPORT FROM JVVNL	2.91	0.00	2.91
ENERGY EXPORT TO Jd VVNL	29.08	0.00	29.08
ENERGY IMPORT FROM JdVVNL		0.03	-0.03
ENERGY EXPORT TO OTHER SOURCE	13.00	0.00	13
ENERGY IMPORT FROM OTHER SOURCE		0.00	0
33KV Gudha	18.11	0.00	18.11
33KV KCC-1st	37.95	0.00	37.95
33KV KCC-2nd	25.79	0.00	25.79
33KV Khetri	18.45	0.00	18.45
33KV Gothra	9.33	0.00	9.33
33KV Dumoli Khurd (Old Mandri bay)	9.04	0.00	9.04
33KV Singhana	27.80	0.00	27.8
33 KV Bus coupler	0.01	0.00	0.01
33 KV Bakara	20.06	0.00	20.06
33 KV Bebasar	7.32	0.00	7.32
33 KV Dhigal	3.23	0.00	3.23
33 KV O/G Modi Road	38.16	0.00	38.16
33 KV O/G PHED JJN	3.85	0.00	3.85
33 KV O/G Jhunjhunu	24.35	0.00	24.35
33 KV O/G PHED	0.08	0.00	0.08
33 KV O/G Housing Board	26.89	0.00	26.89
33 KV O/G Khajpur	11.88	0.00	11.88
33 KV Bus Coupler	4.40	0.00	4.4
33 KV Bangothri	38.73	0.00	38.73
33 KV Khudaniya	28.98	0.00	28.98
33 KV Pilani City	51.76	0.00	51.76
33 KV BITS	10.18	0.00	10.18
11 KV BET	1.46	0.00	1.46
11 KV Ceeri	2.02	0.00	2.02

11 KV B/C	0.02	0.00	0.02
33 KV Bus coupler	0.58	0.00	0.58
33 KV Ghaseda	27.72	0.00	27.72
33 KV Badbar	16.84	0.00	16.84
33 KV O/G Baloda	17.12	0.00	17.12
33 KV Kuharwas	31.06	0.00	31.06
33 KV Pacheri	17.56	0.00	17.56
33 KV BUHANA	14.74	0.00	14.74
33 KV Bus Coupler	3.64	0.00	3.64
33 KV Sultana	23.06	0.00	23.06
33 KV Ardawata	17.96	0.00	17.96
33 KV Kyamsar	21.64	0.00	21.64
33 KV Loyal	24.51	0.00	24.51
33 KV Bus Copular	3.96	0.00	3.96
33 KV kithana	13.67	0.00	13.67
33 kv Mandrella	27.39	0.00	27.39
33 kv Dabri	10.80	0.00	10.8
33 kv o/g NAVRANGPURA	0.00	0.00	0
33 KV Bus Copular	0.00	0.00	0
33Kv O/G Chhawasari	39.28	0.00	39.28
33 KV Titanwad	27.83	0.00	27.83
33 KV Dhamora	39.00	0.00	39
33 KV Ponkh	36.94	0.00	36.94
33 KV DHAWARON KI DHANI	13.45	0.00	13.45
33 KV Bus Copular	0.01	0.00	0.01
33Kv O/G Nawalgarh	29.26	0.00	29.26
33Kv O/G Basawa	37.72	0.00	37.72
33 KV Kothi Road City	13.13	0.00	13.13
33 KV Birol	39.82	0.00	39.82
33/11 kv GSS Kolida	0.00	11.79	-11.79
33/11 KV GSS Bhojana Johra	0.00	6.40	-6.4
11 KV Birodi	0.00	0.50	-0.5
33 o/g Saladipura	0.00	0.00	0
33/11 KV GSS Guhala	0.00	7.35	-7.35
33 o/g Bagoli	49.75	0.00	49.75
33 KV Golyana	30.41	0.00	30.41
33 o/g Dolakheda	35.43	0.00	35.43
33Kv O/G 33/11 T/F	17.31	0.00	17.31
33 KV Bus Coupler	4.23	0.00	4.23
33/11KV Bhauru Ghat GSS from Salaudipura	7.76	0.00	7.76
Khandelwal (Chirana Feeder)	0.00	0.11	-0.11
33 KV Mandawa	20.50	0.00	20.5
33 KV Bus Coupler	0.00	0.00	0
11 KV Mojash	0.00	0.32	-0.32
33 KV PHED	0.11	0.00	0.11
33 KV Hetamsar	18.26	0.00	18.26

33 KV Nua	16.44	0.00	16.44
33 KV Mukundgarh	29.27	0.00	29.27
33 KV Sandinsar	0.00	0.00	0
33KV Chirawa-I	56.64	0.00	56.64
33 KV Pichanwa	12.74	0.00	12.74
33 KV Swami Sehi	18.99	0.00	18.99
33 KV Ismilpur	26.52	0.00	26.52
33KV DRDO	1.71	0.00	1.71
33 KV Narhar	27.99	0.00	27.99
33 KV Aduka	14.49	0.00	14.49
33 KV Bus Coupler	2.09	0.00	2.09
33 o/g Baggar	20.64	0.00	20.64
33 o/g Alipur	26.40	0.00	26.4
33 o/g Makhar	10.41	0.00	10.41
33 o/g Kalipahari	3.35	0.00	3.35
33 o/g Bass Budana	10.29	0.00	10.29
33 o/g Lamba	12.29	0.00	12.29
33kv o/g Phed	0.64	0.00	0.64
Bus coupler	0.00	0.00	0
33 O/g Surajgarh	32.88	0.00	32.88
33 O/g Kakoda	30.70	0.00	30.7
33 O/g Kajra	40.95	0.00	40.95
33 KV Bus Coupler	0.02	0.00	0.02
33 KV o/g- Bissau	24.58	0.00	24.58
33 KV Gangyasar	7.91	0.00	7.91
33 KV Chandwa	16.59	0.00	16.59
33 KV Bus coupler	0.14	0.00	0.14
33Kv O/G Ramgarh	0.00	0.00	0
33 o/g Binjusr	28.74	0.00	28.74
33 kv o/g Kumawas	21.92	0.00	21.92
33 KV Bus coupler	0.02	0.00	0.02
33 KV Devganv	16.16	0.00	16.16
33 KV Kari	36.67	0.00	36.67
33 KV Dumara	24.59	0.00	24.59
33 KV DABARI	12.00	0.00	12
33 o/g Bhandakala	17.05	0.00	17.05
33 o/g Badaganv	23.85	0.00	23.85
33 o/g Khajpur	15.02	0.00	15.02
33 o/g Solana	15.01	0.00	15.01
33 o/g Narshingpura	5.94	0.00	5.94
33 kv Phed	0.17	0.00	0.17
33 KV Bus coupler	0.00	0.00	0
33 KV Babai	29.87	0.00	29.87
33 KV Sefraguwar	7.82	0.00	7.82
33 KV DRDO	2.62	0.00	2.62
33 KV Ramkumpura	12.52	0.00	12.52
33 KV Madhogarh	12.63	0.00	12.63

33 KV B/C	0.03	0.00	0.03
33 kv MOUNDA	0.00	0.00	0
33 o/g Dulaniya	30.04	0.00	30.04
33 o/g Pipali	20.39	0.00	20.39
33 o/g Sardarpura	17.56	0.00	17.56
33 o/g Dhindhawa	14.44	0.00	14.44
33 O/G DUDWA	12.49	0.00	12.49
33 KV Bus coupler	3.52	0.00	3.52
33 KV Nagali	22.16	0.00	22.16
33 KV Rasulpur	35.09	0.00	35.09
33 KV Charawas	12.62	0.00	12.62
33 KV Manota	4.46	0.00	4.46
33 KV PHED	2.16	0.00	2.16
33Kv O/G keerpura	12.27	0.00	12.27
33 KV Bus coupler	0.00	0.00	0
33 kv Malsisar	7.13	0.00	7.13
33 kv Alsisar	7.13	0.00	7.13
33 kv Lutto	7.13	0.00	7.13
33 kv Jhabasar	7.13	0.00	7.13
33 kv Jhatawa kala	7.13	0.00	7.13
33 Kv XEN PHED (PROJ.) Taranagar	7.13	0.00	7.13
33 KV Bus coupler	0.00	0.00	0
33 o/g Mehara	19.74	0.00	19.74
33 o/g Gorir	11.23	0.00	11.23
33 o/g Sihor	3.25	0.00	3.25
33 o/g Dada Fathepura	7.19	0.00	7.19
33 o/g Shimla	18.32	0.00	18.32
33 o/g B/C	1.18	0.00	1.18
33 o/g Mehpal Was	21.11	0.00	21.11
33 o/g Kulotkala	21.11	0.00	21.11
33 o/g Jakhod	21.11	0.00	21.11
33 o/g Baloda	21.11	0.00	21.11
33 o/g B/C	0.00	0.00	0
Ganges solor plant(imp) exp.	0.19	0.00	0.19
	0.00	0.01	-0.01
Ratanpur road GSS F-1	22.15	0.00	22.15
SRTL-F-2	23.16	0.00	23.16
Dhambola F-3	25.20	0.00	25.2
Rampur F-5	24.81	0.00	24.81
GSS DPR F-6	42.50	0.00	42.5
Bichiwara F-7	34.07	0.00	34.07
Dovda Fdr- 8	40.18	0.00	40.18
SRSL-F-9	0.63	0.00	0.63
Bus Coupler F-4 ()	0.37	0.00	0.37
VARDA	20.64	0.00	20.64
BHILUDA	10.18	0.00	10.18

GALIYAKOT	15.36	0.00	15.36
SAGWARA	30.10	0.00	30.1
SAMALIYA	15.81	0.00	15.81
PADWA	9.74	0.00	9.74
BUS COUPLER	4.31	0.00	4.31
PINDAWAL	18.60	0.00	18.6
ASPUR	14.78	0.00	14.78
Nandali	6.03	0.00	6.03
Baroda	16.62	0.00	16.62
Jhallara	10.02	0.00	10.02
SAKANI	6.47	0.00	6.47
BUS COUPLER	0.88	0.00	0.88
DHAMBOLA	38.47	0.00	38.47
DHUNDI	11.14	0.00	11.14
CHOTRA	11.01	0.00	11.01
PEETH	19.41	0.00	19.41
BUS COUPLER	6.70	0.00	6.7
Chundawara feeder	9.47	0.00	9.47
RICCO feeder	5.95	0.00	5.95
Navalshyam feeder	15.59	0.00	15.59
Bichhiwara feeder	13.89	0.00	13.89
BUS COUPLER	3.79	0.00	3.79
Chitri	21.38	0.00	21.38
Chikhali	16.67	0.00	16.67
Ganta ka Ganv	13.45	0.00	13.45
33KV Kunwa	11.75	0.00	11.75
BUS COUPLER	0.18	0.00	0.18
Export to Udaipur circle	0.00	10.03	-10.03
Bhilwara Melba	12.55	0.00	12.55
BSW Syntex	57.67	0.00	57.67
Kushalbag	43.74	0.00	43.74
Mahidam	8.93	0.00	8.93
Balaji Nagar	8.76	0.00	8.76
PH-I	0.00	0.00	0
Ghatol	0.00	0.00	0
Talwara	32.92	0.00	32.92
Thikariya	33.31	0.00	33.31
Badrel	7.08	0.00	7.08
Bagidora	23.56	0.00	23.56
Bus-Coupler-I	9.15	0.00	9.15
Bus-Coupler-II	0.00	0.00	0
Khajuri		1.41	-1.41
Jahapura	20.81	0.00	20.81
Bagidora	10.51	0.00	10.51
Anandpuri	0.00	0.00	0
Kushalgarh	9.50	0.00	9.5
Shaktinagar	0.52	0.00	0.52

Badodiya	23.29	0.00	23.29
Jolana	10.24	0.00	10.24
Bus Coup.	1.10	0.00	1.1
Paloda	24.80	0.00	24.8
Arthuna	19.70	0.00	19.7
Ganoda	22.49	0.00	22.49
Partapur	18.23	0.00	18.23
Bhagora	19.67	0.00	19.67
Bori	7.37	0.00	7.37
Arthuna	21.92	0.00	21.92
Bus Coup.	13.42	0.00	13.42
Daduka	10.03	0.00	10.03
Kushalgarh	20.05	0.00	20.05
Mokampura	0.00	0.00	0
Bus Coup.	21.30	0.00	21.3
Timeda	18.44	0.00	18.44
Dungra	33.09	0.00	33.09
Ramgarh	8.75	0.00	8.75
Peepalkut(Dungar)	4.91	0.00	4.91
Khamera	18.77	0.00	18.77
Senawasa	20.75	0.00	20.75
Ghatol	10.45	0.00	10.45
Bus Coup.	0.65	0.00	0.65
Mahidam	3.85	0.00	3.85
Surpur	15.98	0.00	15.98
PH-I	7.01	0.00	7.01
Riico	21.93	0.00	21.93
Bus coup.	0.00	0.00	0
Gangadtalai	28.43	0.00	28.43
Chordi	25.88	0.00	25.88
Bus coup.	18.86	0.00	18.86
Negadiya	1.55	0.00	1.55
Napla	15.55	0.00	15.55
Bus coup.	3.23	0.00	3.23
33 KV O/G Mokhampura	7.32	0.00	7.32
33 KV O/G Arnod	17.42	0.00	17.42
33 KV O/G Lamba Dabra	26.44	0.00	26.44
33 KV O/G Rathanjana	27.60	0.00	27.6
33 KV O/G Barawarda	26.19	0.00	26.19
33 KV O/G Devgarh	6.64	0.00	6.64
33 KV O/G Pratapgarh	20.92	0.00	20.92
33 KV O/G W/w	14.92	0.00	14.92
33 KV O/G Begwas	16.76	0.00	16.76
33 KV O/G Chhoti Sadri	19.04	0.00	19.04
33 KV O/G Ramdev Ji	27.51	0.00	27.51
33KV O/G Dhamania	36.11	0.00	36.11
33 KV O/G Barwara Naka	29.41	0.00	29.41

33 KV O/G Ganeshpura	12.34	0.00	12.34
11 KV Badi	0.00	1.59	-1.59
33 KV O/G Salamgarh	17.46	0.00	17.46
33 KV O/G Chupna	29.82	0.00	29.82
33 KV O/G Dalot	18.99	0.00	18.99
33 KV O/G Badi Sakhatli	25.01	0.00	25.01
33 KV O/G Barkhedi	21.04	0.00	21.04
33KV O/G Jahapura(Import)	0.00	0.00	0
33 KV O/G Mungana	31.10	0.00	31.1
33KV O/G Dhariyawad	21.18	0.00	21.18
33KV O/G Parel	25.79	0.00	25.79
33 KV O/G MOKHAMPURA	10.33	0.00	10.33
33KV O/G Kooni	4.80	0.00	4.8
11 kv Kusum Solar	0.12	0.00	0.12
33KV O/G Kulthana	13.23	0.00	13.23
33KV O/G Basera	3.31	0.00	3.31
33KV(A) DEVGARH WIND FARM(Imp)	1.82	0.00	1.82
33 KV Badi(Import From Chittorgarh)	0.04	0.00	0.04
From11 KV Godi & Ghagarwa Feeders	1.42	0.00	1.42
P'nagar CD I/P	12.97	0.00	12.97
Bichidi DDI	10.65	0.00	10.65
Bhatewar DDI	26.26	0.00	26.26
RICCO DDI	110.14	0.00	110.14
C. facty DDI	15.36	0.00	15.36
B/c	0.24	0.00	0.24
Bhaval/F.Nagar	60.28	0.00	60.28
Khemli/Mavli	20.65	0.00	20.65
Palana	24.99	0.00	24.99
maniyana	8.06	0.00	8.06
B/c	0.00	0.00	0
Kheroda	12.89	0.00	12.89
Laxmanpura	28.97	0.00	28.97
Airport	0.00	0.00	0
Bhatewar	8.11	0.00	8.11
Mewar Polytech	2.26	0.00	2.26
B/c	0.63	0.00	0.63
Bhinder	12.67	0.00	12.67
Kanore+ chittoer	11.87	0.00	11.87
Kheroda	13.81	0.00	13.81
Badgaon	19.94	0.00	19.94
Powr grid	0.03	0.00	0.03
Salumber	17.66	0.00	17.66
Jhalara	15.83	0.00	15.83
Semari	34.09	0.00	34.09
Jaisamand-I	37.70	0.00	37.7

Jaisamand-II	10.60	0.00	10.6
Adkaliya	3.69	0.00	3.69
Housing Board	10.16	0.00	10.16
B/c	2.96	0.00	2.96
Zawar mines	0.00	0.00	0
P'nagar	8.11	0.00	8.11
Dungerpur	14.32	0.00	14.32
Salumber	14.34	0.00	14.34
Devpura	5.37	0.00	5.37
B/c	1.46	0.00	1.46
BHODAR	8.14	0.00	8.14
Rishabdeo	39.82	0.00	39.82
Parsad	9.64	0.00	9.64
Kherwada	11.57	0.00	11.57
B/c	2.37	0.00	2.37
Madhuvan	54.88	0.00	54.88
Amberi	4.76	0.00	4.76
Bhuvana	56.30	0.00	56.3
Sisarma/BADGAON	48.39	0.00	48.39
Iswal	21.93	0.00	21.93
Sukher	40.34	0.00	40.34
B/c	0.29	0.00	0.29
Sisarma	55.09	0.00	55.09
G"vilas	0.00	0.00	0
Nai	29.01	0.00	29.01
Paldi	35.51	0.00	35.51
AMBAV GARH	24.40	0.00	24.4
trident/LAKE PALACE	9.57	0.00	9.57
B/c	2.92	0.00	2.92
Matoon-I	38.28	0.00	38.28
Matoon-II	2.77	0.00	2.77
MIA-I	11.30	0.00	11.3
MIA-II	33.49	0.00	33.49
Sector 4-I	52.94	0.00	52.94
Secto 4-II	38.60	0.00	38.6
Savina-I	15.13	0.00	15.13
Savina-II	22.60	0.00	22.6
B/c	5.98	0.00	5.98
MADRI	55.53	0.00	55.53
Madhuvan	32.58	0.00	32.58
Sector IV	64.72	0.00	64.72
Patrika	46.04	0.00	46.04
P'Nagar	66.93	0.00	66.93
RCA	0.00	0.00	0
B/c	4.24	0.00	4.24
Gogunda energy	11.06	0.00	11.06
Ishwal	19.04	0.00	19.04

Mansiwakal/gogunda-II	0.00	0.00	0
KAMOL	28.85	0.00	28.85
Vass	17.87	0.00	17.87
B/c	0.99	0.00	0.99
Mansiwakal	6.69	0.00	6.69
Bagpura	13.23	0.00	13.23
Jhadol	10.30	0.00	10.3
Luniyara	19.48	0.00	19.48
nai	5.93	0.00	5.93
B/c	1.34	0.00	1.34
33 KV Sanwad	25.08	0.00	25.08
JEWANA	8.51	0.00	8.51
FATEHNAGAR	22.86	0.00	22.86
KANKARWA	5.53	0.00	5.53
B/c	0.04	0.00	0.04
33 KV KALADWAS	76.95	0.00	76.95
33KV DAKAN KOTRA	13.69	0.00	13.69
33 KV PH-4	3.14	0.00	3.14
33 KV SAVINA	38.29	0.00	38.29
33 KV O/G KALADWAS-2	0.11	0.00	0.11
33KV O/G MANKIND	13.33	0.00	13.33
B/c	13.95	0.00	13.95
33 KV Kherwara	28.53	0.00	28.53
Biyadi	28.95	0.00	28.95
Bawalwada	0.85	0.00	0.85
KANBAI	19.11	0.00	19.11
B/c	29.69	0.00	29.69
33 KV KALIBHIT	16.40	0.00	16.4
33 kv KUN	0.43	0.00	0.43
33 KV Kanore	11.35	0.00	11.35
B/c	58.92	0.00	58.92
33 KV IIM	14.22	0.00	14.22
33 KV TRANSPORT NAGAR	0.00	0.00	0
33 KV balicha	20.68	0.00	20.68
B/c	6.99	0.00	6.99
33 KV Kurabad	23.35	0.00	23.35
33 KV bambora	0.00	0.00	0
33 KV Idana	24.22	0.00	24.22
B/c	0.00	0.00	0
33 KV Amberi	0.00	2.13	-2.13
33KV KHERWARA O/G SISOD		0.81	-0.81
11 KV O/G AKOLA		0.00	0
11 KV O/G AKOLA Boundary metering	0.00	0.32	-0.32
Net Akola	0.00	1.77	-1.77
11 KV O/G DUNGLA.	0.00	0.00	0

33 KV power grid from 132 KV bhinder GSS	0.00	0.00	0
33 KV SANWAD FEEDER	0.00	0.00	0
33/11 KV CHAPRI G.S.S	0.06	0.00	0.06
33 KV RAMPUR O/G BOKHLA	3.54	0.00	3.54
33KV Jhallara(Aspur) n	10.56	0.00	10.56
33/11KV SARVANIYA GSS MAIN 11 KV VCB	0.00	0.00	0
33 KV Swaropganj (metering at Rohida)	0.00	0.00	0
33 KV Swaropganj (metering at Rohida)		0.00	0
Solar energy units of geetanjali university		0.00	0
400kv + Jubilient (Kashmore)	18.66	0.00	18.66
Meera Nagar	30.10	0.00	30.1
Riico	66.00	0.00	66
Pandoli	29.59	0.00	29.59
Nagri	1.08	0.00	1.08
Manpura	28.87	0.00	28.87
B/C	0.00	0.00	0
DIAT	29.30	0.00	29.3
Netawal	26.88	0.00	26.88
11 Kv Incomer	0.07	0.00	0.07
Dashahera Ground	23.67	0.00	23.67
Nimbahera City	30.58	0.00	30.58
RaniKheda	12.13	0.00	12.13
Badi	23.81	0.00	23.81
Gadola	21.17	0.00	21.17
Jawda	19.62	0.00	19.62
Welcome Chauraha	11.73	0.00	11.73
JKCW Bansa	0.00	0.00	0
RIICO	32.43	0.00	32.43
33 kv B/C	0.16	0.00	0.16
Sawa	29.05	0.00	29.05
Kanoj	27.42	0.00	27.42
Sawa Clay 33Kv	0.46	0.00	0.46
Karunda	9.35	0.00	9.35
33 KV B/C	0.02	0.00	0.02
Mangalwar	9.51	0.00	9.51
Bhadsoda	29.01	0.00	29.01
Chikarda	29.78	0.00	29.78
(Akola) Dungla	39.85	0.00	39.85
Chapri	10.83	0.00	10.83
33 KV B/C	0.01	0.00	0.01
RPS	11.99	0.00	11.99
Eklingpura	18.80	0.00	18.8
11 KV RAPP	1.05	0.00	1.05

RPS-I	8.47	0.00	8.47
RPS-II	8.02	0.00	8.02
Borav	30.54	0.00	30.54
Jawahar Sagar	0.66	0.00	0.66
PHED Eklingpura	30.95	0.00	30.95
33 Kv B/C	0.00	0.00	0
33/11 KV T/F	10.34	0.00	10.34
33Kv New Bay	6.05	0.00	6.05
Begun	23.91	0.00	23.91
Parsoli	25.37	0.00	25.37
Anwalhera	18.62	0.00	18.62
Katunda	8.38	0.00	8.38
Nandwai	13.10	0.00	13.1
B/C	0.02	0.00	0.02
Samariya	7.21	0.00	7.21
Meghpura	10.74	0.00	10.74
Chechi	8.81	0.00	8.81
Dhamancha	3.46	0.00	3.46
Bambori	38.18	0.00	38.18
Pind Bhanuja	39.85	0.00	39.85
Badi Sadri	10.73	0.00	10.73
Bansi	34.98	0.00	34.98
Sathola	22.37	0.00	22.37
Kalayanpura	3.17	0.00	3.17
Parsoli	9.80	0.00	9.8
Khermaliya	1.89	0.00	1.89
B/C	0.15	0.00	0.15
Bhopal Sagar	14.43	0.00	14.43
Kapasan	26.68	0.00	26.68
Singhpur*	30.90	0.00	30.9
Hathiyana	21.65	0.00	21.65
Umand	24.09	0.00	24.09
B/C	0.21	0.00	0.21
Senthi-I	27.95	0.00	27.95
senva	14.39	0.00	14.39
Ghosunda	12.40	0.00	12.4
Gandhinagar	17.86	0.00	17.86
Jalampura	8.71	0.00	8.71
Medical Collage	0.00	0.00	0
B/C	0.01	0.00	0.01
Putholi (Indora)	18.62	0.00	18.62
Riico	45.47	0.00	45.47
CHOGAWADI	21.35	0.00	21.35
Gangrar	43.84	0.00	43.84
Monmay	15.78	0.00	15.78
33kv bus coupler	0.00	0.00	0
Gardana	25.13	0.00	25.13

Bansen	26.34	0.00	26.34
Bhdesar	14.24	0.00	14.24
B/C	0.30	0.00	0.3
Akya	20.56	0.00	20.56
33Kv O/G Mangrol	18.80	0.00	18.8
33Kv O/G Arniya Joshi	21.92	0.00	21.92
33 KV Vibrent	5.29	0.00	5.29
33kv BASSI	16.15	0.00	16.15
33kv Sonagar	7.97	0.00	7.97
33kv KUYALIYA	45.51	0.00	45.51
33 Kv B/C	0.00	0.00	0
Anwalhera	5.09	0.00	5.09
33kv O/G Palcha	2.57	0.00	2.57
33Kv O/G Sadhi	2.84	0.00	2.84
33Kv Vijaypur	8.37	0.00	8.37
33kv O/G Bangeda	8.36	0.00	8.36
Kanera	13.93	0.00	13.93
Sarsi	6.33	0.00	6.33
33Kv O/G Keli	0.00	0.00	0
33Kv B/C	1.73	0.00	1.73
33kv Somi	21.58	0.00	21.58
33kv Pahuna	10.23	0.00	10.23
33kv Bheemgarh	19.86	0.00	19.86
33Kv Rashmi	18.47	0.00	18.47
33Kv Rood	15.29	0.00	15.29
33Kv O/G Bhopal Sagar	9.55	0.00	9.55
33Kv O/G Akola	33.19	0.00	33.19
33Kv O/G Binota	19.01	0.00	19.01
33Kv Lasdavan	7.27	0.00	7.27
33Kv Khodip Vani	16.81	0.00	16.81
33Kv B/C	0.00	0.00	0
33Kv O/G Devpura	18.69	0.00	18.69
33kv O/G Jawada	0.00	0.00	0
33Kv O/G Kuakheda	5.62	0.00	5.62
From Udaipur Circle Akola Feeder	1.59	0.00	1.59
From Udaipur Circle Dungla Feeder	1.07	0.00	1.07
From Udaipur Circle Kankarwa	5.53	0.00	5.53
From Udaipur Circle PGCIL	0.00	0.00	0
From Udiapur Circlr Sethwana Vill.	0.55	0.00	0.55
From Pratapgarh Circle PHED Feeder	0.30	0.00	0.3
From Pratapgarh Circle Factory Feeder	1.29	0.00	1.29
From Bhilwara Circle PHED Bhunjarkala	40.87	0.00	40.87

From Bhilwara Circle Sangam India	19.54	0.00	19.54
From Jaipur Discom Jawahar Sagar	0.00	0.00	0
Export to Rajsamnad Circle from HZL		0.06	-0.06
Export to Rajsamnad Circle from Meza		0.00	0
Export to Udaipur Circle from Sarwaniya		3.30	-3.3
Export to Pratapgarh Circle from Badi		0.00	0
Export to Pratapgarh Circle from Bambori		38.44	-38.44
Export to Jaipur Discom from J.S. Dem		0.67	-0.67
Rail magra	25.47	0.00	25.47
Pachhmata	23.95	0.00	23.95
Bhurwada	13.18	0.00	13.18
Fateh Nagar	7.17	0.00	7.17
Dariba	7.98	0.00	7.98
HZL MATRIKUNDIYA	0.00	0.00	0
CHAPRI	0.01	0.06	-0.05
devgarh	38.15	0.00	38.15
Bhim Lasani	18.22	0.00	18.22
Kamlighat	10.66	0.00	10.66
Baghana	1.64	0.00	1.64
CHARNIYA	19.96	0.00	19.96
Sardargarh	32.38	0.00	32.38
Amet	18.15	0.00	18.15
Gugali	71.53	0.00	71.53
devgarh	15.94	0.00	15.94
Sakarda	13.04	0.00	13.04
Agariya	11.59	0.00	11.59
Salampura	6.55	0.00	6.55
Raj Nagar(Ricco)	35.93	0.00	35.93
Kankroli	18.43	0.00	18.43
Civil Lines	30.50	0.00	30.5
PGCIL	0.00	0.00	0
Kelwara	3.28	0.00	3.28
Kunwaria	23.54	0.00	23.54
Nathdwara	42.04	0.00	42.04
Mohi	50.05	0.00	50.05
Mokhampura	59.79	0.00	59.79
Devpura(Morvad)	65.76	0.00	65.76
Charbuja/Khatamala	5.21	0.00	5.21
Sardul Khera	45.21	0.00	45.21
Umthi	20.68	0.00	20.68

Kelwa	27.42	0.00	27.42
Nathdwara	32.07	0.00	32.07
Gunjol	34.32	0.00	34.32
Delwara	12.22	0.00	12.22
Khamnor	23.10	0.00	23.1
Ganesh Tekri	13.11	0.00	13.11
Pakhand	29.46	0.00	29.46
Kothariya	3.71	0.00	3.71
Vageri naka	1.32	0.00	1.32
lal madri/madariya	18.95	0.00	18.95
ODAN	6.95	0.00	6.95
ODAN	4.14	0.00	4.14
miraj	0.00	1.99	-1.99
JAWAJA	2.93	7.65	-4.72
Bhim	13.81	0.00	13.81
Shekhawas	6.96	0.00	6.96
Jassakhera	8.52	0.00	8.52
AJEETGARH-BARAR	11.93	0.00	11.93
THANETA	1.02	0.00	1.02
JETGARH(BHILWARA)	1.35	0.04	1.31
Sangath/Sunderch	2.44	0.00	2.44
Kelwara	21.12	0.00	21.12
Morwad	13.67	0.00	13.67
Sapol	13.29	0.00	13.29
BAMAN TUKDA	36.09	0.00	36.09
DHANIN	8.63	0.00	8.63
Charbhujia	7.89	0.00	7.89
PUTIYA	12.46	0.00	12.46
KAREDA	36.53	0.00	36.53
220 KV DFCC	6.36	0.00	6.36
220 KV DFCC	7.79	0.00	7.79
132 RSWM	143.35	0.00	143.35
132 HZL	349.65	0.00	349.65
SANGAM	108.70	0.00	108.7
SUDIVA	61.14	0.00	61.14
132 KANCHAN	236.60	0.00	236.6
132 KV RSWM	38.38	0.00	38.38
220 KV JINDAL	160.93	0.00	160.93
NITIN	147.80	0.00	147.8
33 KV O/G AMBUJA CEMENT	154.21	0.00	154.21
132KV JK White fdr(I)	67.63	0.00	67.63
132KV JK Cement fdr	12.32	0.00	12.32
132KV RSWM	52.17	0.00	52.17
DFCC	6.71	0.00	6.71
132 BINANI	38.89	0.00	38.89
132 KV DFCC NMKT -I	6.40	0.00	6.4
133 KV DFCC NMKT -II	0.03	0.00	0.03

Mahi Cement	87.29	0.00	87.29
RSWM	135.70	0.00	135.7
132 HZL	339.26	0.01	339.25
132 UCW	67.73	0.00	67.73
132 HZL	10.92	0.00	10.92
132 RSWM	39.46	0.00	39.46
132 reliance	42.00	0.00	42
132 RSMM	29.03	0.00	29.03
O/G BCW.	16.68	0.00	16.68
O/G CCW.	194.74	0.00	194.74
O/G HZL.	553.62	0.00	553.62
O/G J.K. CEMENT.	140.98	0.00	140.98
132 KV O/G ACW.	238.51	0.00	238.51
132 KV O/G LAFARGE	101.02	0.00	101.02
132 Kv Nitin Speenars	85.56	0.00	85.56
132KV WONDER CEMENT	274.98	0.00	274.98
132 kv JKCW mangrol	150.70	0.00	150.7
132 KV JK	38.10	0.00	38.1
220 KV DARIBA HZL	585.09	0.25	584.84
	-378.61		
Total (MU)	27347.96	280.76	27067.2
Net input energy at DISCOM periphery		27067.20	

3.3.4 Consumer Base

Table 10 Category of Consumers of AVVNL

Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
Residential	4523243	0	4523243
Agricultural	610825	414	611239
Commercial/Industrial-LT	446996	0	446996
Commercial/Industrial-HT	9714	0	9714
Others	57014	0	57014
	5647792	414	5648206

- The consumers in the above table includes consumer of TPADL.

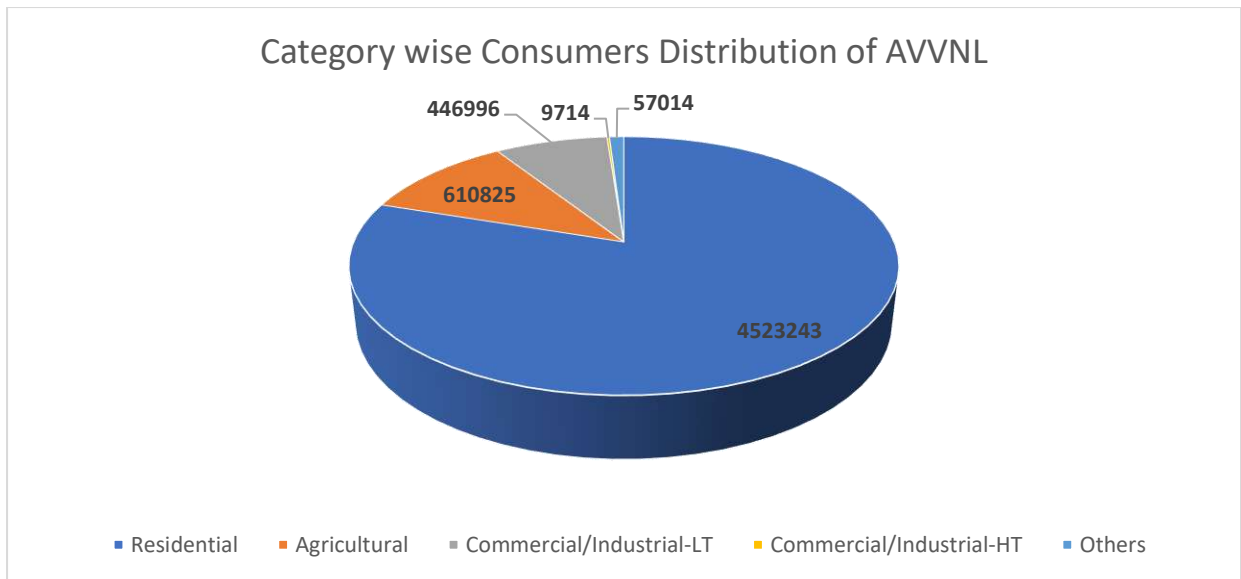


Figure 5 Category Wise Consumer Distribution of AVVNL

The document verification and reports submitted by the AVVNL provided the insights to the energy consumption pattern it can be seen from above figure that 80.08% of its energy is consumed by Residential consumers, 10.82% by Agricultural consumers, 7.91% by Commercial/Industrial LT consumers, 0.17% Commercial/Industrial HT consumers and remaining 1.01% by others.

0.01% of the consumers are unmetered connection which is negligible as compared to the total volume of connections handled by AVVNL. However, the DISCOM is committed to attain 100% metered connections.

The collection efficiency as per CEA report is 101% and the collection efficiency reported by AVVNL in regulatory reports and BEE report is 101%.

In order to carry out voltage wise study, it is pre-requisite to establish Metering at 33kV Sub-station incomer, all 11kV Feeders, all DT's associated to these 11kV Feeders and AMR of all the consumers/prosumers with proper network indexing and correct consumer tagging and having Meter Data Acquisition System, dynamic consumer tagging system and Energy Audit at Various voltage levels.

Losses at 33kV Level which covers 33kV Line Losses plus Power Transformer Losses as per the manual meter reading of Energy Meters installed at EHV GSS and 11kV Feeders is being carried out for Ajmer DisCom.

Right now, such infrastructure is not in place for all such 48 nos. 33/11kV S/s for 12 nos. O&M circles and none of the Energy Meter at 33kV level & 11kV Level are AMRed. None of the DT's in Rural Areas are metered and no AMR system is available. However, Ajmer DisCom has placed work order upon M/s Idea Infinity IT Solutions Pvt. Ltd., Bangalore under TN-IT-52 vide letter no. d. 1013 dtd. 30/11/2022 to establish Automatic Meter Reading of all 11kV Feeders and 33kV KIOSK meter installed at 33/11kV S/s through GPRS based communication technology.

3.4 Energy Conservation measures already taken and proposed for future

Several Energy conservation schemes has been undertaken by the DISCOM to reduce the quantum of losses and improve its delivered output. Some of the initiatives are as under.

1. Revamped Distribution Sector Scheme (RDSS Scheme)

Revamped Distribution Sector Scheme was notified by MoP on 20.07.2021 which was followed by a detailed guideline dated 29.07.2021. The objective of the scheme is to bring down pan-India AT&C losses to 12 – 15% level and ACS-ARR gap to Zero by 2024-25. The scheme is Reform-based and Result linked and accordingly the Discoms are required to prepare Action plan for the scheme period viz. FY 22 to FY 25.

The DISCOMs have to score a minimum of 60% of marks and clear a minimum bar in respect to certain parameters to be able to become eligible for funding against the Scheme in that year. The Scheme provides for annual appraisal of the DISCOM performance against predefined and agreed upon performance trajectories including AT&C losses, ACS-ARR gaps, infrastructure upgrade performance, consumer services, hours of supply, corporate governance, etc.

Implementation of the Scheme would lead to improvement in the quality & reliability of power supplied to the consumers by making the Distribution system more robust. The scheme envisages strengthening the energy accounting system, installation of Smart Pre-paid meters/System meters and adoption of Artificial Intelligence to analyze data generated through IT/OT devices. Such a robust energy accounting system shall enable DISCOMs to take informed decisions on loss reduction, demand forecasting, Time of Day (ToD) tariff, Renewable Energy (RE) Integration and for other predictive analysis.

The scheme includes the following:

Part A – Metering & Distribution Infrastructure Works:

To facilitate in installing prepaid smart meters for all consumers along with associated AMI, communicable meters for DTs & Feeders, ICT including Artificial Intelligence (AI), Machine Learning (ML), etc. based solutions for power Sector and a unified billing and collection system.

Distribution infrastructure works as required for strengthening and modernizing the system as well as measures for loss reduction. The infrastructure strengthening works will include separation of Agriculture feeders to enable implementation of the KUSUM scheme, Aerial Bunch cables and HVDS for loss reduction, replacement of HT/LT lines as require construction of new/up gradation of substations, SCADA and DMS system etc. Each DISCOM/ State will draw up the scheme according to its requirement with the end objective of reducing losses and ensuring 24 x 7 supply.

Part B - Training & Capacity Building and other Enabling & Supporting

Activities: Supporting and enabling components, such as Nodal Agency fee, enabling components of MoP (communication plan, publicity, consumer awareness, consumer survey and other associated measures such as third party evaluation etc.), up-gradation of Smart Grid Knowledge Centre, training and capacity building, awards and recognitions etc.

Approval of scheme: This scheme has been approved by REC on dated 28.03.2022 for loss reduction work of amounting Rs. 2293 Cr and Rs. 3663 Cr. for Smart metering works.

IT INITIATIVES

The Company continued to strengthen the IT wing. Various steps were taken to provide high quality power to consumers through IT enabled system so as to make services more accessible. The following IT initiatives were taken by your company:

A. Smart Metering Project

Under the IPDS scheme of Government of India, approved by Power Finance Corporation Limited, an order of Rs 140.14 crore has been placed on M/s. Energy Efficiency Services Limited, New Delhi against TN-IT-28 for installation of 1,88,869 Numbers Smart Meters equipped with GPRS modems for all urban consumers upto 18.65kW/ 25HP sanctioned load in 27 nos. IPDS towns and 1953 nos. Smart Meters equipped with GPRS modems in other IPDS towns for public street light connections.

The implementing agency has installed 68673 nos. smart Meters upto 31.12.2021 mainly in 12 towns namely Pushkar, Deedwana, Kuchaman city, Nawa, Makrana, Parbatsar, Nagaur, Khandela, Pilani, Udaipurwati, Kapasan & Rawatbhata. The project for installation of Smart meters under IPDS was shortclosed and closure has been sent to PFC as on 31.12.2021 since no further extension was awarded by Power Finance Corporation.

B. IT Phase-II (IPDS)

The scheme was sanctioned by PFC Ltd. for Rs. 10.902 Crore on 01.02.2018 with eligible award cost of Rs. 3.462 Crores for all IPDS towns for IT enhancement summed with RAPDRP Part-A project. The number of modems sanctioned for DT/Feeder/Boundary is 3546 nos. in IPDS Towns and the number of modems sanctioned for Consumers is 362 nos. in IPDS Towns.

The implementing agency has installed & commissioned AMR based DT Metering System for 7596 nos. Distribution Transformers in IPDS Towns and 3288 nos. Modems for AMR of High Value Consumer Meters as on 31.03.2022. The project for installation of DT and HV AMR under IPDS was short closed and closure has been sent to PFC as on 31.12.2021 since no further extension was awarded by Power Finance Corporation.

C. SCADA-DMS System

The MoP, India, launched RAPDRP scheme Part I for implementation of SCADA/DMS projects. The eligibility is only in project areas having towns with population of over 4 lacs (2001 Census) and annual input energy of 350 MU. Hence, Ajmer City was selected for the SCADA / DMS implementation. The SCADA DMS has been set up in Ajmer city of Ajmer Discom under RAPDRP Part-A by Ministry of Power, Government of India. 21 Nos. 33/11 KV sub-stations of Ajmer City are being monitored and operated from the SCADA control center. Due to implementation of SCADA, increase in operational efficiency and significant reduction in shutdown time of feeders have been witnessed. It has facilitated in providing uninterrupted power supply to consumers. The information of power consumption, reasons for tripping and smooth loading will be used to enable accurate estimation of the losses.

Project has been successfully implemented and is in operation. Third Party Independent Evaluation Agency has verified all the Hardware & Software installed & commissioned. The SCADA/DMS Control Centre established under R-APDRP Part-A Projects and Hardware/Software

installed at 18 nos. 33/11 S/s out of total 21 nos. 33/11kV S/s have been handed over to M/s Tata Power Ajmer Distribution Limited, Input based Franchisee for Ajmer City. Facility Management Service (FMS) are being provided by the implementing agency, M/s Dongfang Electronics Co. Ltd.

Revamped Distribution Sector Scheme (RDSS)

The activities to be undertaken under Revamped Distribution Sector Scheme (RDSS) which was notified by MoP on 20.07.2021 are as follows:

Part A - Metering & Distribution Infrastructure Works:

Facilitating in installing prepaid smart meters for all consumers along with associated AMI, communicable meters for DTs & Feeders, ICT including Artificial Intelligence (AI), Machine Learning (ML), etc. based solutions for power Sector and a unified billing and collection system.

Component I: Metering:

Under this part, Prepaid Smart metering for consumers, and System metering at Feeder and Distribution Transformer level with communicating feature along with associated Advanced Metering Infrastructure (AMI) will be done in TOTEX modethrough PPP, to facilitate reduction of Distribution losses and enable automatic measurement of energy flows and energy accounting as well as auditing.

It has been planned to convert all meters to Smart Meters under RDSS action plan has been chalked out for converting/installing Smart Meters of Consumers and DT meters.

Consumer metering:

With the objective of balancing the cost & benefits of prepaid smart meters and to reap the benefits of economies of scale, it has been decided that implementation of such meters shall be taken up in mission mode in identified contiguous areas. The following areas will be taken up on priority for prepaid smart metering of all directly connected meters and AMI in case of other meters (other than agricultural consumers) in the first phase to be completed by December, 2023 **(Phase-I)**:

- All Union Territories
- All Electricity Divisions of 500 AMRUT cities, with AT&C Losses > 15% in the base year;
- Industrial and Commercial consumers;
- All Government offices at Block level and above;
- Other areas with high losses, which shall mandatorily include Electricity Divisions having more than 50% consumers in urban areas and with AT&C losses more than 15% and other Electricity Divisions with AT&C losses more than 25%, in the base year

Consumers in Electricity Divisions with more than 50% consumers in urban areas and with AT&C losses of 15% or less; and other Electricity Divisions with AT&C losses of 25% or less in the base year will be provided prepaid Smart Meters by March 2025 **(Phase-II)**.

System metering:

All feeders are to be metered with communicable & AMI/AMR meters by 31st December, 2022 so as to enable energy accounting and calculation of SAIFI and SAIDI and DT metering shall also be completed by December-2023 (Phase-I). As per criteria defined by the GoI in RDSS Scheme quantum of Phases has been decided as above and estimated amount for FY-2022-23 has been

decided. The DPR/ Action Plan is approved by the MoP followed by DRC and Cabinet, conveyed vide letter dated 28.03.2022.

SCADA Implementation under RDSS

I. SCADA / DMS in Big cities including OPEX for 2 years:

Eligibility: Towns having population ≥ 2.75 Lacs in other states as per Census 2011 data, as well as all Capital/DISCOM HQ towns, if not covered earlier. Three Cities of Ajmer DISCOM qualify for the same and SCADA / DMS in Ajmer Town already implemented there. Hence, funding is required to cover 33/11kV Sub-stations of Balance two cities (Udaipur & Bhilwara).

II. Basic SCADA (Real Time Supervision & Controllability of Sub-station) including opex for 2 years with District-wise or Circle-wise common control centres

Eligibility: All other statutory towns (64 Nos of Towns of Ajmer DISCOM where SCADA may implement and need to cover under funding scheme.) The DPRs for SCADA/DMS works has been sent to PFC for approval. The work shall be taken w.e.f FY-2022-23 as per directions of PFC (Nodal agency), MoP, Gol.

Loss Reduction activities IT/OT works:

- **BI Software Applications:** Advanced ICT like Artificial Intelligence, Machine Learning and Block chain Technology would be leveraged to analyze data generated through IT/OT devices including System Meters, prepaid Smart meters to prepare actionable MIS from system generated energy accounting reports every month so as to enable the DISCOMs to take informed decisions on loss reduction, demand forecasting, asset management, Time of Day (ToD) tariff, Renewable Energy (RE) Integration and for other predictive analysis.

2. Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM)

Scope of the Scheme:

The Government of India has approved scheme for farmers for installation of solar pumps and grid connected solar power plants. Administrative approval for the scheme was issued by Ministry of New and Renewable Energy (MNRE) on 8.3.2019. The following component of the scheme is to be executed by Discom:

Component-C:

Under this component, individual pump capacity up to 7.5 HP having Grid connected Agriculture pumps will be supported to solarise pumps. The pilot project for 11 KV Selarpura feeder under Pratapgarh District having 19 Agriculture consumers, tender (TN-83) was issued by Ajmer Discom amounting to Rs. 70.65 Lac on dt. 10.12.2019 and work has been completed. Further after pilot project, the work for solarisation of grid connected Agriculture consumers has been awarded for 5681 Agriculture consumers selected in 64 feeders under TN-84 & TN-86.

Progress of work under PM KUSUM-C Scheme :

The work for solarisation of grid connected Agriculture consumers has been completed for 962 Agriculture connections in Dungarpur district & work is in progress for 1230 Agriculture connections in Dungrapur, Pratapgarh & Banswara district as detailed herein below:

Table 11 KUSUM scheme details

S.No	District	Feeder (In Nos.)	Connection(In Nos.)	Work completed(In Nos.)	Work in Progress(In Nos.)
1	Pratapgarh	19	698	0	338
2	Banswara	12	2642	0	777
3	Dungarpur	14	2128	962	115
4	Ajmer			0	0
5	Udaipur	19	213	0	0
Total		64	5681	962	1230

3. Helpdesk

In compliance to the Standards of Performance-2021 to consumers for their areas of supply issued vide RERC (SoP for Distribution Licensees) Regulations, 2021 and subsequent Order Commercial AJ-830 vide NO. AVVNL/ CE (HQ)/ SE(C)/ XEN-I/ F. 57(F)/ 2021-22/ D. 367 Dated: 25.05.2021, Helpdesk at sub-divisional level is to be established. The objectives & scope of work are as hereunder:

IT enabled "Helpdesk" infrastructure/ setup at the Sub-Divisional level/ Corporate level for submission of complaint or claim of compensation electronically (SMS, E-mail, mobile app, web site of the Licensee/ franchisee/ Nigam) or telephonically (voice call- Landline/ Mobile) or in writing or through any other mode, to remain operative between 9 am to 6 pm on all working days. The Helpdesk shall be manned by a suitable and knowledgeable person having basic computer knowledge between 9 am to 6 pm on all working days for registration of complaints and providing registration number to the complainants. The name, mobile number of such person shall be displayed on the notice board of the corresponding office where the Helpdesk is situated. Additionally, the following nature of complaints can be registered at the Helpdesk:

- a) Transformer failure
- b) Supply failure
- c) Safety related
- d) Electricity theft
- e) Any other complaints raised by the Discom consumer/ as mentioned above.

Consumer Indexing

Tagging of consumers to their respective 11 KV Feeders and Distribution Transformers has enabled your company to generate verified and validated correct data of consumers, ease in identification of theft and reduction in AT&C losses. The Status of Consumer Indexing up to 31.03.2023 is as follows:

(a) Total No. of consumers: 5648206

(b) No. of consumers tagged on 11 KV Feeders:	5245024
(c) No. of consumers tagged on Distribution Transformers:	5197430

4. Mobile Application (Urja Sarthi)

Ajmer Discom is constantly endeavouring for promoting payments through digital mode by developing Mobile Apps for its consumers. It provides better service and convenience to the consumers by facilitating them to address day to day transactions through mobile devices. It has also increased the quantum of digital payments thereby fulfilling the objectives of Digital India Mission. The contract period has been further extended till June'2023. The mobile app is serving the consumers for various facilities including complaint registration and online payment, along with facility for bill correction, disconnection, reconnection, load change, category change.

5. Mobile Application (E-VCR App)

This mobile application was developed by M/s. Pragyaware, Ludhiana for on-the-spot / online filing of Vigilance Checking Report and Monitoring of Vigilance Activities carried out by various officers of Ajmer Discom. The e-VCR app is being used by the vigilance officers for filling up on-the-spot/ online VCRs. Upto 31.03.2022; 11412 VCRs have been filled through this app.

6. NIC Project

National Informatics Center (NIC) has been appointed as Principal IT consultant for development and implementation of Software/Module for all three Discoms. (JVVNL, JDVVNL, AVVNL) vide LoA no. D. 2032 dtd. 7/3/2019. MoU has been executed between Rajasthan Discoms signed on 27/6/2019. The Contract period is 60 months for development of all modules. As per NIC, New Connection, Billing for domestic connection, mobile application for consumers will be completed within 2 years.

A centralized IT Cell has been established at Vidyut Bhawan, Jaipur. Discoms have provided necessary IT set up to NIC team as per requirement. NIC has deployed developers at NIC room w.e.f. 4/11/2019 and started working on MBC modules. Module wise committees of the officers from 3 Discoms have been created on 18/9/2020. The modules- Billing, Collection, New Connection, Disconnection and Reconnection, Mobile Application for Consumer have been developed and got approved by PACT committee held on dt. 25.02.2022 for parallel run in one subdivision each in AVVNL and JDVVNL after security audit and remaining modules are under development process.

7. Centralized Consumer Service Center:

The 24x7 Centralized customer care centre is operational at IT Cell Ajmer. The CCC is functional in integrated mode with the FRTs. Initially, FRTs were deployed in big towns of the Discom, thereafter; work order was awarded for deployment of FRTs in all sub-divisions of the Discom. FRTs are functional in 177 nos. Sub-divisions as on 31.03.2022. At present, FRTs are functional in 177 nos. Sub-divisions of Ajmer Discom.

8. ERP System:

Ajmer Discom has placed LoA on RajComp Info Services Ltd (RISL), Jaipur (A Government of Rajasthan undertaking) in May 2018 for implementation of Human Resource and Management System (HRMS) module and subsequently, placed LoA on RajComp Info Services Ltd (RISL), Jaipur

(AGovernment of Rajasthan undertaking) in Oct 2018 for implementation ofERP at a total cost of Rs. 1.34 Cr. with 3 modules namely MM, WPM and F&A. M/s RISL could develop partially and roll out only MM module as on 31.03.2022 & remaining modules could not be developed upto 31.03.2022.

9. SMS Service:

The work order placed upon M/s ACL Mobile Ltd., Noida on 11.01.2022. The Application Programming Interface (API) provided for SMS PUSH services shall be used by multiple applications within AVVNL. The messaging Platform is to support transmission of large-scale Messages tomultiple users in multiple mobile networks for approx. 8 Cr. SMS/ Year and 1.80 Crore SMS Per Month. (@Rs. 0.848 per SMS).

II PRIVATE SECTOR PARTICIPATION

1) Distribution Franchisee – Ajmer City

The Company entered into Distribution Franchisee Agreement with Tata Power Company Limited on 09.03.2017 and Distribution Franchisee Agreement was executed on 19.04.2017 with TP Ajmer Distribution Limited for 20 years period (SPV of Tata Power Company Limited). The franchisee company is working from 01.07.2017 and maintaining supply & distributionin the franchisee area of Ajmer city as per terms & conditions of DFA.

2) MBC Model – Bhilwara City

The metering, billing, collection & associated services in the Bhilwara citywere decided to be managed on franchisee basis and agreement was executed on 23.11.2017 with Secure Metering & Services (Bhilwara) Pvt. Limited (SPV of M/s. Secure Meter Limited, Udaipur) for providing metering, billing, collection & associated services in the Bhilwara city. Thefranchisee company is working from 01.04.2018 satisfactorily and maintained supply & distribution in the franchisee area of Bhilwara city asper terms & conditions of agreement.

3) MBC Model – Banswara City

The metering, billing, collection & associated services in Banswara city were decided to be outsourced in line with MBC Model – Bhilwara for reduction of technical and commercial losses. Bids were invited for appointment of MBC Agency in Banswara city through online competitive bidding process on State e-Procurement Portal on 06.01.2020. M/s. Secure Meters Limited was the selected bidder and as per the bid conditions constituted the MBC Agency (SPV Company) namely Secure Metering andService Banswara Private Limited. The Work order was issued to Secure Metering and Service Banswara Private Limited on 23.11.2020 and the Agency commenced its service w.e.f. 01.04.2021.

Vigilance AND ANTI THEFT Measures

Rigorous vigilance activities are being done to detect and curb the theft of electricity regularly. The steps taken towards this direction during the financial year 2022-23are as under:

1. Special weekend drives by Discom officers were organized for VigilanceChecking.
2. Vigilance activities concentrated to theft prone areas with special focus onHigh loss feeders were undertaken.

3. Special emphasis was laid on Industrial & high value consumers during Vigilance checking.
4. Illegal transformers were lifted.
5. Meter boxes (setup boxes with capacity of 4 & 6 meters) were installed on poles in theft prone urban areas.
6. In order to reduce the distribution losses, Agriculture connections load was verified and regularized.
7. Regular checking were conducted by Vigilance Officers as per details given below:
8. Regular intensive checking were conducted by O&M Officers as per details given below:
9. In order to prevent theft of energy following 6496 Nos. of FIRs registered during the year in the various Anti Power Theft Police Stations of Discom as stated in table out of which 8011 cases have been compounded and Rs. 939.89 Lacs recovered. Total 73 culprits were arrested as detailed as under:
10. During the year cases of theft of electricity by installation of illegal transformers were detected by the Discom and such cases have been registered in various Anti Power Theft Police Stations and strict action has been taken.

4. Energy Flow Analysis

4.1 Energy flow across 5 service levels

The energy flow across 5 service levels is as shown in the below table:

Table 12 Energy flow across 5 service levels

Voltage level	Energy Sales Particulars	MU
LT Level	DISCOM' consumers	15,471.65
	Demand from open access, captive	0
	Embedded generation used at LT level	0
	Sale at LT level	15,471.65
	Quantum of LT level losses	2,618.51
	Energy Input at LT level	18,090.16
11 kV Level	DISCOM' consumers	3,428.77
	Demand from open access, captive	0.00
	Embedded generation at 11 kV level used	0.00
	Sales at 11 kV level	3,428.77
	Quantum of Losses at 11 kV	61.07
	Energy input at 11 kV level	3,489.84
33 kV Level	DISCOM' consumers	1,407.80
	Demand from open access, captive	0.00
	Embedded generation at 33 kV or below level	0.00
	Sales at 33 kV level	1,379.64
	Quantum of Losses at 33 kV	28.16
	Energy input at 33kV Level	1,407.80
> 33 kV	DISCOM' consumers	4,079.40
	Demand from open access, captive	0.00
	Cross border sale of energy	0.00
	Sale to other DISCOMs	0.00
	Banking	0.00
	Energy input at > 33kV Level	4,079.40
	Sales at 66kV and above (EHV)	4,079.40
Total Energy Requirement		27,067.20
Total Energy Sales		24,359.46

4.2 Validation of metered data

The validation of metered data has been done by field visits to various substation and checking the correctness and efficiency of the meters through the calibration reports of the meters done periodically. The calibration reports for some of the meters are attached in the annexure of this report.

4.3 Validation of energy flow data and losses

The energy flow data and losses has been validated from the source data provided by the DISCOM in the form of various sheets and formats by the account department of the DISCOM. The energy flow and losses are s tabulated in the below table.

Table 13 Validation of Energy flow data and losses

DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
LT	18,090.16	15,471.65	2618.51	14.47%
11 Kv	3489.84	3,428.77	61.07	1.75%
33 kv	1,407.80	1,379.64	28.16	2.00%
> 33 kv	4079.40	4,079.40	0	0.00%

Loss Estimation for DISCOM	
D loss	2,707.73
D loss (%)	10.00%

5. Loss and Subsidy Computation

5.1 Energy accounts analysis for previous years

Table 14 Energy Account summary for the previous 5 years

Particulars	2017-18	2018-19	2019-20	2020-21	2021-22
Input Energy Purchase (From Generation Source)	20,414.37	21,828.83	21,381.70	22722.63	24623.56
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	19,232.69	20,484.99	20,223.24	21418.44	22903.55
Total Energy billed (is the Net energy billed, adjusted for energy traded))	15,357.62	16,776.00	17,294.24	18173.95	19987.54
T & D loss Details	3875.08	3688.97	2928.92	3244.49	2916.01
	24.77%	23.15%	19.12%	20.02%	18.83%
Collection Efficiency	96.50%	93.55%	91.23%	92.40%	100.00%
Aggregate Technical & Commercial Loss	22.94%	23.31%	21.99%	15.15%	12.73%

**The revenue collected shall exclude the arrears. However, in case figures of arrears not available separately, there is possibility to getting collection efficiency figures of more than 100%. In such cases, efficiency shall be restricted to 100% and shall be used for computation of AT&C losses. The amount attributing collection efficiency higher than 100% shall be treated collection against arrears.*

It is evident from the above table that the technical and commercial losses has been in a constant downtrend owing to timely steps taken by AVVNL to curb these losses.

Following are the trend analysis of some of the important parameters pertaining to AVVNL data for the last five years.

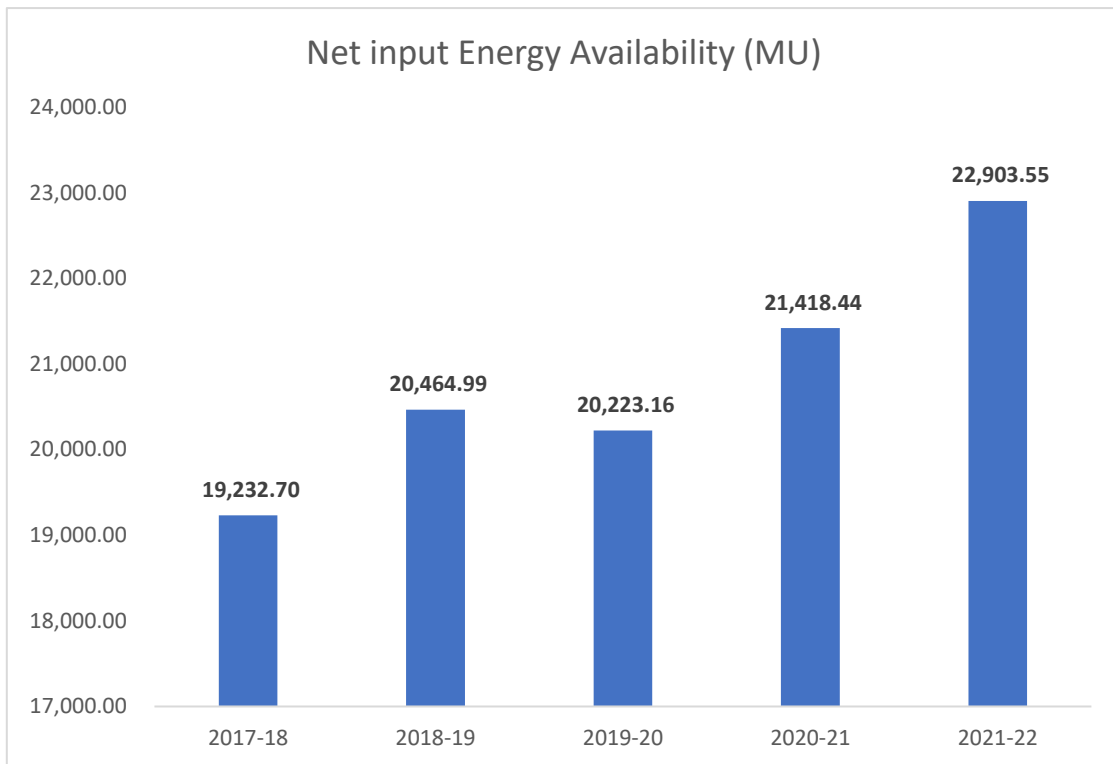


Figure 6 Net Input Energy Availability for last five years

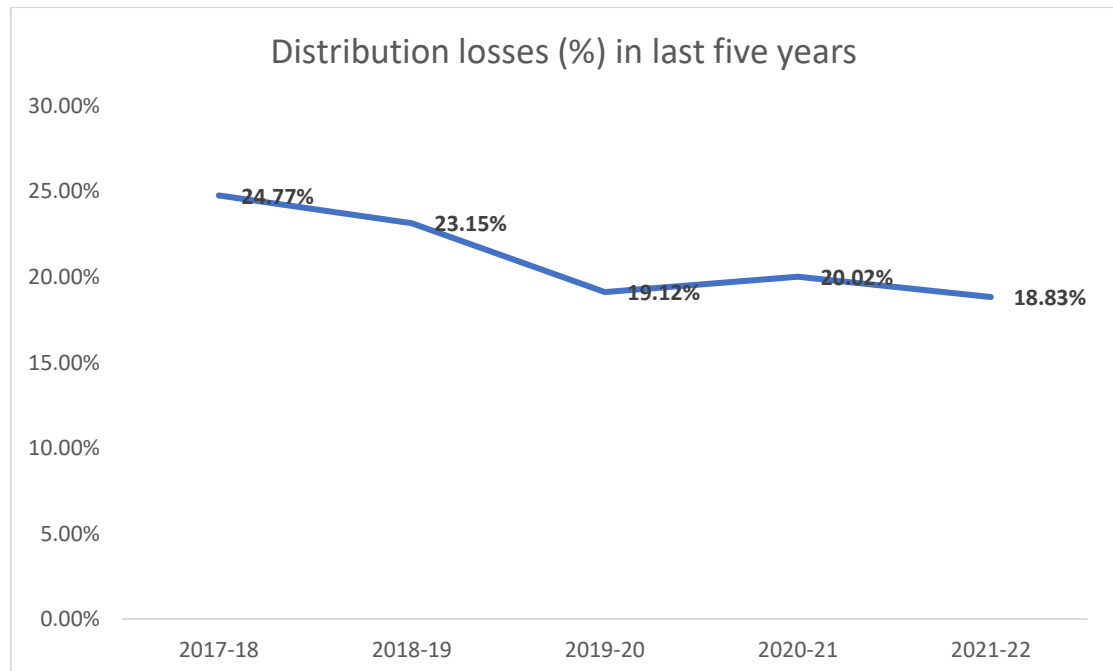


Figure 7 Distribution losses in the last five years

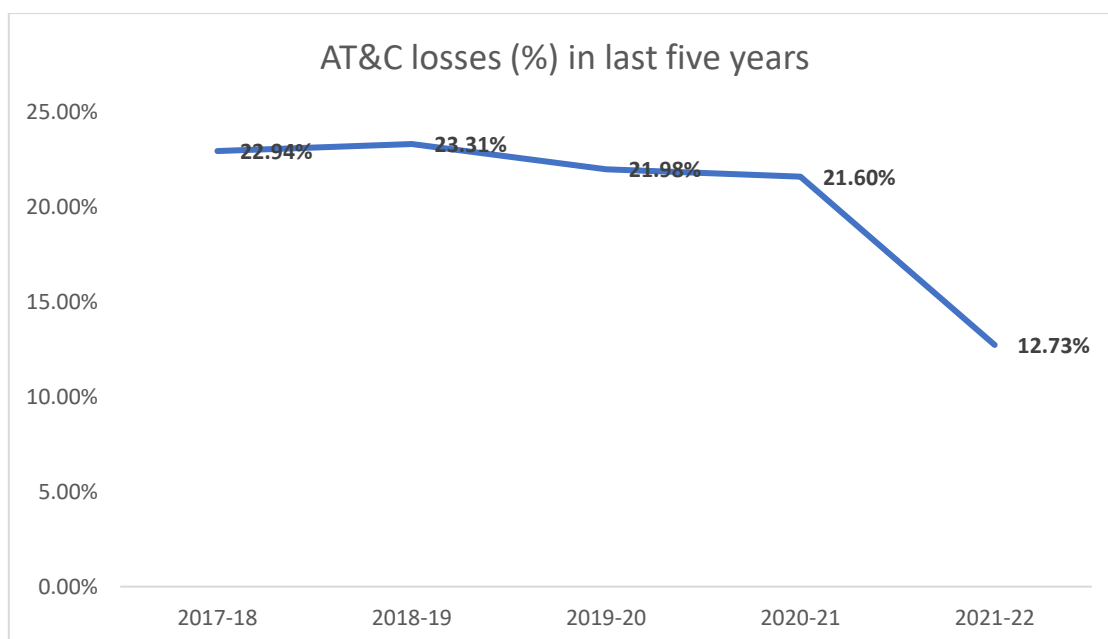


Figure 8 AT&C losses in last five years

5.2 Energy account analysis and performance in current year

5.2.1 Aggregate

Table 15 Energy account summary for the current year 2022-23 as per BEE pro forma

(a) Energy Input Details			
(i)	Input Energy Purchase (From Generation Source)	Million kwh	29417.58
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	27067.20
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	24359.46
(b)	Distribution loss Details	Million kwh	2707.73
		%	10.00%
	Collection Efficiency	%	100%
(c)	Aggregate Technical & Commercial Loss	%	10.00%

**The revenue collected shall exclude the arrears. However, in case figures of arrears not available separately, there is possibility to getting collection efficiency figures of more than 100%. In such cases, efficiency shall be restricted to 100% and shall be used for computation of AT&C losses. The amount attributing collection efficiency higher than 100% shall be treated collection against arrears.*

- The aggregate technical and commercial losses for 2022-23 is 10.00%.
- The collection efficiency for the year 2022-23 is 100%.
- The Distribution losses for the year is 10.00 % which is lesser than the previous years depicting significant improvement in DISCOM performance year on year.

Table 16 Additional details for energy purchased and energy sold

Particulars	For the Year ended 31.03.2023	
	(Units in MU)	(` in lakhs)
Purchase of Energy	29814.62	15,73,335.12
Less: Sale of energy through Power exchange	397.04	18,792.26
Net availability before Tr. loss	29417.58	15,54,542.86
Transmission Loss (MU)	2350.38	
Transmission Loss (%)	7.99	
Net availability after Tr. Loss	27067.20	
Sales of Energy	24359.46	18,90,460.76
Distribution Loss (MU)	2707.74	
Distribution Loss (%)	10.00	
T & D Loss (MU)	5058.12	
T & D Loss (%)	17.19	

Table 17 Inter Discom calculation for the year 2022-23

	Jaipur	Ajmer	Jodhpur	Total
Purchase(MU)	39580.177	27371.421	35206.301	102157.899
Ratio of Purchase %	38.74	26.79	34.46	100.00
Drawn (M&P)(MU)	35144.490	27067.199	31784.090	93995.779
Ratio of Drawn (M&P)%	37.39	28.80	33.81	100.00
Total Tr. Loss%	11.207	1.111	9.720	7.990
Purchase(MU)	39580.177	27371.421	35206.301	102157.899
Tr. Loss(MU)	3162.341	2186.897	2812.882	8162.120
	36417.835	25184.524	32393.420	93995.779
Actual Drawn (M&P)(MU)	35144.490	27067.199	31784.090	93995.779
Inter Discom(MU)	-1383.916381	2046.157480	-662.241098	0.000
NET PURCHASE(MU)	38196.261	29417.578	34544.060	102157.899
TRANS. LOSS(MU)	3051.771	2350.379	2759.970	8162.120
TRANS. LOSS IN %	7.990	7.990	7.990	7.990

Note:- Interdiscom amount has been calculated at the average power cost i.e. 5.12 (excluding prior period) of discoms for the financial year 2022-23.

5.2.1.1 Power Purchase details for the year 2022-23

Table 18 Power Purchase details from various sources for Ajmer Discom in 2022-23

S.NO.	NAME OF THE FIRM	Energy
(A)	NTPC	
1	ANTA GTPS	0
2	AURIYA GTPS	0
3	DADRI GTPS	0
4	FGUTTPS (UN)-1	849989
5	FGUTTPS (UN)-2	50907305
6	FGUTTPS (UN)-3	35333544
7	FGUTTPS (UN)-4	89125915
8	F.S.T.P.S (FARRAKA)	0
9	KH-1	34248340
10	KH-2	163041076
11	KHPS-1	87656411
12	NCTPS 1D	255282299
13	NCTPS 2	2765569
14	RIHAND-1	169794823
15	RIHAND-2	209843957
16	RIHAND-3	227091689
17	SINGUARLI	563074885
18	SINGUARLI-Hydel	1918815
19	TANDA-II STPS	130437501
	TOTAL CURRENT	2021372118
	<i>Prior period</i>	0
	TOTAL (with adj.)	2021372118
(B)	NTPC BHADLA-II (Solar)	113318508
	<i>Prior period</i>	0
	TOTAL (with adj.)	113318508
(C)	NTPC NSM-BUNDLED	
	SOLAR	381386994
	THERMAL	567487084
	TOTAL CURRENT	948874078
	<i>Prior period</i>	0
	TOTAL (with adj.)	948874078
(D)	NTPC - MEJA	96046145
	<i>Prior period</i>	0
	TOTAL (with adj.)	96046145

(E)	NHPC	
1	SALAL	24117889
2	TANAKPUR	12716021
3	CHAMERA-I	96267516
4	URI	63950174
5	CHAMERA-II	33667602
6	DHAULIGANG	32604146
7	DULHASTI	58184097
8	URI-II	45904358
9	PARBATI III	18273958
10	SEWA II	14771495
11	CHAMERA-III	28790450
	TOTAL CURRENT	429247706
	<i>Prior period</i>	0
	TOTAL (with adj.)	429247706
(F)	SJVNL	
1	NATHPA-JHAKRI	141317352
	<i>Prior period</i>	0
	TOTAL (with adj.)	141317352
2	RAMPUR	40009005
	<i>Prior period</i>	0
	TOTAL (with adj.)	40009005
(G)	NEYVELI LIGNITE CORPORATION LTD	400745566
	<i>Prior period</i>	0
	TOTAL (with adj.)	400745566
(H)	ARAVALI POWER CO PVT LTD	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
(I)	NVVN BUNDLED POWER	
	SOLAR	107333766
	THERMAL	542804915
	TOTAL CURRENT	650138681
	<i>Prior period</i>	0
	TOTAL (with adj.)	650138681
(J)	COASTAL GUJRAT (36:36:28)	131830109
	<i>Prior period</i>	0
	TOTAL (with adj.)	131830109

(K)	ADANI POWER RAJASTHAN LIMITED	2244777327
	<i>Prior period</i>	0
	TOTAL (with adj.)	2244777327
(L)	SASAN POWER LTD(36:36:28)	986516369
	<i>Prior period</i>	0
	TOTAL (with adj.)	986516369
(M)	PTC (KARCHAM WANGTOO)	113588019
	<i>Prior period</i>	0
	TOTAL (with adj.)	113588019
(N)	PTC (DB)	639733388
	<i>Prior period</i>	0
	TOTAL (with adj.)	639733388
(O)	PTC (MARUTI)	280726198
	<i>Prior period</i>	0
	TOTAL (with adj.)	280726198
(P)	PTC (TEESTA)	119117441
	<i>Prior period</i>	0
	TOTAL (with adj.)	119117441
(Q)	SKS	148676207
	<i>Prior period</i>	0
	TOTAL (with adj.)	148676207
(R)	NPCIL	
1	NAPP	76830672
	<i>Prior period</i>	0
	TOTAL (with adj.)	76830672
(S)	RAPS	
1	RAPP-I &II	155240955
2	RAPP-III&IV	180034667
3	RAPP-V & VI	174094079
4	RAPP-V	0
	TOTAL CURRENT	509369701
	<i>Prior period</i>	0
	TOTAL (with adj.)	509369701
(T)	THDC	
	TEHRI	64959049

	KOTESHWAR	27202516
	TOTAL CURRENT	92161565
	TEHRI	0
	KOTESHWAR	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	92161565
(U)	PTC TALA (BHUTAN)	9301669
	<i>Prior period</i>	0
	TOTAL (with adj.)	9301669
(V)	STATE GEN. & OTHER	
1	R.V.U.N.	10285917946
	<i>Prior period</i>	0
	TOTAL (with adj.)	10285917946
2	GLTPP	-288377
	<i>Prior period</i>	0
	TOTAL (with adj.)	-288377
3	RAJWEST POWER LIMITED	1747104401
	<i>Prior period</i>	0
	TOTAL (with adj.)	1747104401
	TOTAL V	12032733970
	TOTAL V (with adj.)	12032733970
(W)	SHARE PROJECTS	
1	BBMB(BHAKRA,DEHAR&PONG	662714668
2	CHAMBAL/SATPURA	193754453
	TOTAL CURRENT	856469121
	<i>Prior period</i>	0
	TOTAL (with adj.)	856469121
(X)	OTHERS	
1	R.F.F.	0
2	P.T.C. INDIA LTD	0
3	NVVN	0
4	MANIKARAN POWER LTD	0
5	TATA POWER TRADING CO. LTD	0
6	SHREE CEMENT	0
7	Adani	0
8	Instinct infra	0
9	VS LIGNITE POWER PVT. LTD.	0
10	ESSAR POWER GUJRAT LTD	0

11	uttar haryana	0
12	MITTAL PROCESSOR	0
13	GMRC	0
14	HZL	0
15	P.T.C. INDIA LTD(others)	0
	TOTAL CURRENT	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	TOTAL (A to X)	23082900915
	TOTAL A TO X (with adj.)	23082900915
(Y)	NCES	
1	WIND FORMS	1364650694
2	SOLAR	1280782005
	<i>Prior period</i>	0
	TOTAL (with adj.)	1280782005
3	KUSUM SOLAR	5569236
	<i>Prior period</i>	0
	TOTAL (with adj.)	5569236
4	BIOMASS	0
	(I) Kalptaru	28864204
	(II) Chambal power	11897659
	(III) Sathyam Power Ltd.	13486235
	(IV) S M Environmental	15042606
	(V) Transtech green power pvt ltd	5583462
	(VI) Rajasthan State Ganganagar Sugar Mills Ltd.	904565
	(VII) Orient green power	15046128
	(VIII) Sanjog sugars eco pvt ltd	16231271
	(VIII) Indeen Bio Power Limited	5986
	TOTAL CURRENT	107062115
	<i>Prior period</i>	0
	TOTAL (with adj.)	107062115
(Z)	CAPTIVE	
	(I) A.C.C Ltd. Lakheri	0
	(II) Shree Cement	0
	(III) Aditya Cement	0
	(IV) Hindustan Zinc	0
	(V) RSWM	0
	(VI) J k White Cement	0
	(VII) Manglam Cement	0
	(VIII) Ultratech Cement	0
	(IX) J K Lakshmi Cement	0
	(X) VS Lignite	0
	(XI) Binani Corporation	0

	(XII) Ambuja Cement	0
	(XIII) Sh Rajasthan Syntex	0
	(XIV) WONDER CEMENT	0
	(XV) DCM shri ram consolidated	0
	(XVI) D.S.C.L	0
	TOTAL CURRENT	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	TOTAL (Y to Z)	2758064050
	TOTAL Y TO Z (with adj.)	2758064050
	TOTAL (A to Z)	25840964965
	TOTAL A TO Z (with adj.)	25840964965
(AA)	TRANSMISSION CHARGES	
1	PGCIL	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
2	MARU TRANSMISSION	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
3	ARAVALI TRANSMISSION	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
4	RVPNL	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
5	SLDC CHARGES	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
6	HADOTI POWER	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
7	THAR POWER	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
8	BARMER POWER	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
9	NRLDC-PSEB	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
10	NRLDC POSCO	0
	<i>Prior period</i>	0

	TOTAL (with adj.)	0
11	POC CHARGES	
	1. PTC (KARCHAM WANGTOO)	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	2. PTC (DB)	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	3. PTC (MARUTI)	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	4. PTC (TEESTA)	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	5. UPPTCL (TANDA)	0
	<i>Prior period</i>	0
	TOTAL (with adj.)	0
	TOTAL POC CHARGES	0
	TOTAL POC CH.(with adj.)	0
	TOTAL (AA)	0
	TOTAL AA (with adj.)	0
(AB)	U.I.CHARGES	
1	OVER DRAWL	112923051
2	UNDER DRAWL	-71338148
	TOTAL (AB)	41584903
(AC)	BANKING	
1	PTC(INDIA)	0
2	NVVNL	0
3	Manikaran Power	0
4	UPPCL	386442410
5	Aruranchal Pradesh	0
6	CSPDCL	-448557
7	TATA	0
8	TANGEDCO	-466478
	TOTAL (AC)	385527375
	TOTAL (A to AC)	26268077243
	TOTAL A TO AC (with adj.)	26268077243
(AD)	INTER DISCOM	
1	JVVNL	0
2	AVVNL	0
3	JDVVNL	0
	TOTAL (AD)	0

	TOTAL (A to AD)	26268077243
	TOTAL A TO AD (with adj.)	26268077243
(AE)	EXCHANGE	
1	PURCHASE	
	IEX	1679676523
	PXIL	99879218
	TOTAL	1779555741
	GRAND TOTAL (CURRENT)	28047632984
	GRAND TOTAL (with adj.)	28047632984
2	SALE	
	IEX	395751475
	PXIL	1287427
	TOTAL	397038902
	NET (CURRENT)	27650594082
	NET (with adj.)	27650594082

Table 19 Inter Discom adjustment for Distribution company

	JVVNL	AVVNL	JdVVNL
Purchase	39482463871	27650594082	35024841277
Inter discom SASAN	88935033	-254123056	165188023
Inter discom CGPL	8778055	-25050213	16272158
Net Purchase	39580176959	27371420813	35206301458

Table 20 Inter Discom calculation for the year 2022-23

	Jaipur	Ajmer	Jodhpur
Purchase(MU)	39580.177	27371.421	35206.301
Ratio of Purchase %	38.74	26.79	34.46
Drawn (M&P)(MU)	35144.490	27067.199	31784.090
Ratio of Drawn (M&P)%	37.39	28.80	33.81
Total Tr. Loss%	11.207	1.111	9.720
Purchase(MU)	39580.177	27371.421	35206.301
Tr. Loss(MU)	3162.341	2186.897	2812.882
	36417.835	25184.524	32393.420
Actual Drawn (M&P)(MU)	35144.490	27067.199	31784.090
Inter Discom(MU)	-1383.916381	2046.157480	-662.241098
NET PURCHASE(MU)	38196.261	29417.578	34544.060
TRANS. LOSS(MU)	3051.771	2350.379	2759.970
TRANS. LOSS IN %	7.990	7.990	7.990

5.2.1.2 Input energy month wise as per outgoing feeder for FY 2022-23

The month wise input energy at circle level for Ajmer Discom is as shown for the 12 months for FY 2022-23.

Table 21 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month April 2022

Circle	Gross Energy of April-2022	Total of open Access, IEX & Wind Energy	Net Energy of April-2022
ACC	1327.01	0.64	1326.36
ADC	1410.79	10.08	1400.71
Banswara	762.05	0.98	761.07
Dungarpur	537.50	0.00	537.50
Bhilwara	3272.38	161.22	3111.16
Chittorgarh	2828.80	17.69	2811.11
Pratapgarh	440.58	0.00	440.58
Jhunjhunu	1920.39	0.00	1920.39
Nagaur	3107.97	2.11	3105.86
Sikar	2710.08	0.97	2709.11
Udaipur	2561.41	138.79	2422.63
Rajasamand	1354.01	0.46	1353.54
Total	22232.96	332.94	21900.02

Table 22 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month May 2022

Circle	Gross Energy of May-2022	Total of open Access, IEX & Wind Energy	Net Energy of May-2022
ACC	1571.39	3.40	1568.00
ADC	1501.50	8.63	1492.86
Banswara	822.76	0.00	822.76
Dungarpur	559.66	0.00	559.66
Bhilwara	3504.38	167.78	3336.60
Chittorgarh	2952.10	35.22	2916.88
Pratapgarh	431.85	0.00	431.85
Jhunjhunu	2268.68	0.00	2268.68
Nagaur	3927.53	2.04	3925.49
Sikar	2954.89	7.97	2946.92
Udaipur	2895.51	198.85	2696.66
Rajasamand	1579.66	0.38	1579.28
Total	24969.91	424.27	24545.65

Table 23 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month June 2022

Circle	Gross Energy of June-2022	Total of open Access, IEX & Wind Energy	Net Energy of June-2022
ACC	1487.76	1.41	1486.34
ADC	1453.35	16.09	1437.27
Banswara	771.81	2.42	769.39
Dungarpur	485.64	0.00	485.64
Bhilwara	3438.31	178.68	3259.63
Chittorgarh	3082.73	32.77	3049.96
Pratapgarh	347.94	0.00	347.94
Jhunjhunu	2167.53	0.00	2167.53
Nagaur	3977.78	2.13	3975.65
Sikar	2759.31	0.90	2758.41
Udaipur	2617.46	140.70	2476.75
Rajasamand	1544.17	0.13	1544.04
Total	24133.80	375.24	23758.56

Table 24 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month July 2022

Circle	Gross Energy of July-2022	Total of open Access, IEX & Wind Energy	Net Energy of July-2022
ACC	1270.20	1.34	1268.86
ADC	1384.93	17.17	1367.76
Banswara	723.20	2.20	720.99
Dungarpur	435.74	0.00	435.74
Bhilwara	3176.89	248.09	2928.80
Chittorgarh	2612.98	15.20	2597.78
Pratapgarh	266.62	0.00	266.62
Jhunjhunu	1590.91	0.00	1590.91
Nagaur	2696.23	2.05	2694.17
Sikar	2102.73	8.41	2094.32
Udaipur	2130.83	117.80	2013.03
Rajasamand	1508.40	4.86	1503.53
Total	19899.64	417.12	19482.52

Table 25 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month August 2022

Circle	Gross Energy of August-2022	Total of open Access, IEX & Wind Energy	Net Energy of August-2022
ACC	1130.80	5.15	1125.65
ADC	1308.99	11.44	1297.55
Banswara	719.32	1.16	718.16
Dungarpur	443.93	0.00	443.93
Bhilwara	3014.37	191.03	2823.33
Chittorgarh	2394.32	22.91	2371.41
Pratapgarh	268.88	0.00	268.88
Jhunjhunu	2022.97	0.00	2022.97
Nagaur	3070.89	1.77	3069.13
Sikar	2216.03	0.81	2215.22
Udaipur	2081.72	121.14	1960.58
Rajasamand	1404.12	6.96	1397.15
Total	20076.33	362.37	19713.96

Table 26 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month September 2022

Circle	Gross Energy of September-2022	Total of open Access, IEX & Wind Energy	Net Energy of September-2022
ACC	1279.70	1.61	1278.09
ADC	1423.71	12.29	1411.42
Banswara	843.79	0.91	842.88
Dungarpur	495.15	0.00	495.15
Bhilwara	3270.12	165.89	3104.23
Chittorgarh	2624.64	15.90	2608.74
Pratapgarh	319.32	0.00	319.32
Jhunjhunu	2061.81	0.00	2061.81
Nagaur	3915.89	1.76	3914.13
Sikar	2562.72	3.31	2559.41
Udaipur	2216.72	42.68	2174.04
Rajasamand	1562.53	15.37	1547.17
Total	22576.10	259.71	22316.38

Table 27 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month October 2022

Circle	Gross Energy of October-2022	Total of open Access, IEX & Wind Energy	Net Energy of October-2022
ACC	1155.53	1.59	1153.94
ADC	1331.12	7.81	1323.31
Banswara	814.92	1.14	813.77
Dungarpur	464.60	0.00	464.60
Bhilwara	3061.64	184.59	2877.05
Chittorgarh	2942.95	13.31	2929.64
Pratapgarh	418.63	0.00	418.63
Jhunjhunu	1651.50	0.00	1651.50
Nagaur	3898.88	2.00	3896.87
Sikar	2191.00	3.00	2188.00
Udaipur	2028.29	75.13	1953.16
Rajasamand	1426.67	0.09	1426.59
Total	21385.73	288.68	21097.06

Table 28 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month November 2022

Circle	Gross Energy of November-2022	Total of open Access, IEX & Wind Energy	Net Energy of November-2022
ACC	1066.23	2.86	1063.37
ADC	1375.10	3.26	1371.83
Banswara	963.56	0.48	963.07
Dungarpur	512.98	0.00	512.98
Bhilwara	3372.18	178.76	3193.42
Chittorgarh	3651.40	10.55	3640.85
Pratapgarh	854.07	0.00	854.07
Jhunjhunu	2036.18	0.00	2036.18
Nagaur	4321.25	2.09	4319.15
Sikar	2509.95	1.92	2508.03
Udaipur	2267.54	41.74	2225.80
Rajasamand	1437.66	0.06	1437.60
Total	24368.08	241.73	24126.35

Table 29 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month December 2022

Circle	Gross Energy of December-2022	Total of open Access, IEX & Wind Energy	Net Energy of December-2022
ACC	1081.02	2.07	1078.94
ADC	1443.07	7.29	1435.78
Banswara	948.78	0.00	948.78
Dungarpur	553.93	0.00	553.93
Bhilwara	3483.48	163.75	3319.73
Chittorgarh	3686.63	32.43	3654.20
Pratapgarh	819.74	0.00	819.74
Jhunjhunu	2352.78	0.00	2352.78
Nagaur	4607.65	1.85	4605.81
Sikar	2885.23	1.46	2883.77
Udaipur	2418.36	43.84	2374.52
Rajasamand	1505.39	0.95	1504.44
Total	25786.04	253.63	25532.42

Table 30 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month January 2023

Circle	Gross Energy of January-2023	Total of open Access, IEX & Wind Energy	Net Energy of January-2023
ACC	1104.34	2.17	1102.17
ADC	1396.40	6.67	1389.72
Banswara	922.84	0.43	922.41
Dungarpur	531.57	0.00	531.57
Bhilwara	3336.71	173.63	3163.08
Chittorgarh	3376.40	30.97	3345.43
Pratapgarh	751.54	0.00	751.54
Jhunjhunu	2378.71	0.00	2378.71
Nagaur	4550.18	0.02	4550.16
Sikar	2888.26	2.09	2886.17
Udaipur	2389.80	72.07	2317.73
Rajasamand	1467.01	0.13	1466.89
Total	25093.74	288.17	24805.57

Table 31 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month February 2023

Circle	Gross Energy of February-2023	Total of open Access, IEX & Wind Energy	Net Energy of February-2023
ACC	1007.02	1.80	1005.21
ADC	1270.85	6.02	1264.83
Banswara	837.56	0.77	836.79
Dungarpur	468.76	0.00	468.76
Bhilwara	3022.73	187.07	2835.66
Chittorgarh	3030.25	13.83	3016.42
Pratapgarh	594.62	0.00	594.62
Jhunjhunu	2102.12	0.00	2102.12
Nagaur	4077.60	1.86	4075.74
Sikar	2634.21	3.39	2630.82
Udaipur	2203.01	71.76	2131.25
Rajasamand	1388.28	0.09	1388.19
Total	22637.00	286.59	22350.41

Table 32 Energy Input (In LU) as per Outgoing Feeder of 'Consumption' Month March 2023

Circle	Gross Energy of March-2023	Total of open Access, IEX & Wind Energy	Net Energy of March-2023
ACC	1044.82	1.58	1043.24
ADC	1289.48	4.47	1285.01
Banswara	792.28	0.60	791.68
Dungarpur	435.91	0.00	435.91
Bhilwara	3220.78	180.85	3039.93
Chittorgarh	2568.11	17.82	2550.28
Pratapgarh	434.15	0.00	434.15
Jhunjhunu	1927.69	0.00	1927.69
Nagaur	3410.20	1.90	3408.30
Sikar	2658.73	1.81	2656.93
Udaipur	2148.53	46.54	2101.99
Rajasamand	1368.06	0.08	1367.98
Total	21298.74	255.65	21043.09

5.2.1.3 Circle wise cash assessment and cash realisation for the year 2022-23

Table 33 Circle wise cash assessment and cash realisation (excluding tariff subsidy, DBT & PSL) for the FY 2022-23

Sr	CIRCLE	Upto March-23			UC available	Revers Adj. UC	Adj. of rest amount Rs. 10.82 Cr. of Panchayati raj	Total Real.	% Real	Allotment of UC	Total Real.	% Real
		Asstt.	Real.	% Real.								
1	ACC	68516.00	67991.37	99.23	235.59	0.00	52.30	68279.25	99.65	312.35	68591.60	100.11
2	ADC	134761.87	134299.61	99.66	442.30	0.00	23.99	134765.89	100.00	119.95	134885.84	100.09
3	BHILWARA	277434.77	276517.15	99.67	1011.94	883.00	90.85	278502.93	100.39	251.03	278753.96	100.48
4	NAGPUR	254904.92	258358.36	101.35	694.99	0.00	260.34	259313.68	101.73	249.27	259562.95	101.83
AJM ZONE		735617.55	737166.48	100.21	2384.81	883.00	427.47	740861.76	100.71	932.60	741794.36	100.84
5	UDAIPUR	214524.18	214651.63	100.06	904.19	0.00	189.61	215745.42	100.57	246.75	215992.17	100.68
6	RAJSAMAND	136887.93	136908.22	100.01	212.50	0.00	43.12	137163.84	100.20	60.83	137224.67	100.25
7	CHITTORGARH	241952.20	243992.82	100.84	730.74	0.00	125.08	244848.64	101.20	137.08	244985.72	101.25
8	PRATAPGARH	38937.50	39175.05	100.61	48.08	0.00	30.11	39253.24	100.81	12.85	39266.09	100.84
9	BANSWARA	67094.99	67314.67	100.33	140.41	171.00	59.35	67685.44	100.88	38.55	67723.99	100.94
10	DUNGARPUR	43951.22	44265.59	100.72	86.86	0.00	19.64	44372.08	100.96	22.28	44394.35	101.01
UDP ZONE		743348.02	746307.98	100.40	2122.77	171.00	466.91	749068.66	100.77	518.34	749587.00	100.84
11	JHUNJHUNU	166587.96	167511.91	100.55	593.90	0.00	38.26	168144.07	100.93	179.06	168323.13	101.04
12	SIKAR	216631.05	216730.08	100.05	705.56	0.00	149.36	217585.00	100.44	177.35	217762.35	100.52
JIN ZONE		383219.01	384241.99	100.27	1299.46	0.00	187.62	385729.07	100.65	356.42	386085.48	100.75
DISCOM		1862184.58	1867716.44	100.30	5807.04	1054.00	1082.00	1875659.48	100.72	1807.36	1877466.85	100.82
TPADL		37564.67	37874.59	100.83	598.40	840.00	0.00	39312.99	104.65	175.64	39488.63	105.12
DISCOM (with TPADL)		1899749.25	1905591.03	100.31	6405.44	1894.00	1082.00	1914972.47	100.80	1983.00	1916955.47	100.91

5.2.1.4 Circle wise PDC outstanding detail for the FY 2022-23

Table 34 Circle Wise PDC outstanding details of Ajmer Discom for 2022-23

Sr	Name of Circle	Opening O/s of PDC Consumers as on 01.04.2022	PDC added during the F.Y. 2022-23 upto Feb-23	Recovery from PDC Outstanding during the F.Y. 2022-32 upto Feb-23	Closing O/S of PDC Consumers as on 28.02.2023
1	ACC	844.64	119.38	152.78	811.24
2	ADC	660.85	165.25	159.28	666.83
3	Bhilwara	1859.66	338.87	393.72	1804.81
4	Nagaur	11630.47	1155.14	637.48	12148.13
5	Udaipur	4075.26	711.77	598.25	4188.78
6	Rajsamand	979.64	350.16	210.07	1119.73
7	Chittorgarh	4310.25	1362.56	955.32	4717.49
8	Pratapgarh	2126.25	429.56	97.07	2458.74
9	Banswara	3297.60	518.04	150.52	3665.12
10	Dungarpur	974.84	158.64	129.00	1004.48
11	Jhunjhunu	4105.33	70.10	490.00	3685.43
12	Sikar	2423.85	23.55	542.55	1904.85
Discom Total		37288.64	5403.05	4516.06	38175.63

*all the values in the above table are Rs. In Lacs.

5.2.1.5 Status of mobile number updates as on 2022-23

Table 35 Status of mobile number updation for Ajmer Discom for the FY 2022-23

Sr	Circle Name	Total Knos.	Mobile Updated	Mobile Not Updated	%Updation
1	Ajmer Distt	291401	290451	950	99.67
2	Bhilwara	501851	494241	7610	98.48
3	Nagaur	682427	663443	18984	97.22
4	Ajmer	232619	230351	2268	99.03
AJMER ZONE		1708298	1678486	29812	98.25
5	Sikar	684257	681384	2873	99.58
6	Jhunjhunu	550117	548674	1443	99.74
JHUNJHUNU ZONE		1234374	1230058	4316	99.65
7	Udaipur	706938	681843	25095	96.45
8	Rajsamand	299098	287323	11775	96.06
9	Banswara	261982	241938	20044	92.35
10	Chittorgarh	368733	361562	7171	98.06
11	Dungarpur	344159	331956	12203	96.45
12	Pratapgarh	188390	176022	12368	93.43
UDAIPUR ZONE		2169300	2080644	88656	95.91
TOTAL DISCOM		5111972	4989188	122784	97.60

5.2.2 Voltage wise assessed losses

Table 36 Voltage wise assessed losses

DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
LT	18,090.16	15,471.65	2618.51	14.47%
11 kV	3489.84	3,428.77	61.07	1.75%
33 kV	1,407.80	1,379.64	28.16	2.00%
> 33 kV	4079.40	4,079.40	0	0.00%

5.2.3 Category wise assessed losses

Table 37 Category wise T&D losses for the year 2022-23

Consumer Category	Input Energy (MU)	Billed Energy (MU)			T&D losses (MU)	T&D losses (%)
		Metered Energy	Unmetered/Assessment Energy	Total Energy		
Residential	27067.2	5286.48	0	5286.48	2707.74	10%
Agricultural		7326.23	9.66	7335.89		
Commercial/Industrial-LT		2385.99	0	2385.99		
Commercial/Industrial-HT		8817.39	0	8817.40		
Others		533.70	0	533.70		
Total	27067.2	24349.80	9.66	24359.46	2707.73	10.004%

Table 38 Category wise AT&C losses for the year 2022-23

Consumer Category	Input Energy (MU)	Billed Amount in Rs. (crore)	Collected Amount in Rs. (crore)	Collection efficiency (%)	AT&C losses (%)
Residential	27067.2	4313.27	4376.09	101.46%	9.34%
Agricultural		4778.50	4787.47	100.19%	
Commercial/Industrial-LT		2404.04	2460.95	102.37%	
Commercial/Industrial-HT		6983.00	6992.41	100.13%	
Others		520.52	522.19	100.32%	
Total	27067.2	18999.35	19139.13	100.74%	9.34%

Table 39 AT&C losses as per Ministry of Power Guidelines for the year 2022-23

Particulars		2022-23 (in MU & ` in Lakhs)
(A) Input Energy	(MU)	29,417.58
(B) Transmission Losses	(MU)	2,350.38
(C) Net Input Energy	(A-B) (MU)	27,067.20
(D) Energy Sold	(MU)	24,359.46
(E) Revenue from sale of energy (Sale of power+ LPS - rebate)		18,38,316.02
(F) Adjusted revenue from sale of energy		18,48,967.45
(G) Opening debtor without pro. & unbilled rev.		78,018.65
(H) Closing debtor without pro. & unbilled rev. & write off		61,485.52
(I) Adjusted closing debtors for sale of energy		61,485.52
(J) Collection Efficiency	(%)	100.00%
(K) Units realised	(D* J) (MU)	24,359.46
(L) Units Unrealised	(C-K) (MU)	2,707.74
(M) AT&C Losses	(%) (L/C)*100	10.00%

*The revenue collected shall exclude the arrears. However, in case figures of arrears not available separately, there is possibility to getting collection efficiency figures of more than 100%. In such cases, efficiency shall be restricted to 100% and shall be used for computation of AT&C losses. The amount attributing collection efficiency higher than 100% shall be treated collection against arrears.

5.2.4 Sub division wise assessed losses

Table 40 Subdivision wise assessed T&D and AT&C losses

Name of Sub-division	Input energy (MU)	Energy Sale (MU)	D loss (MU)	D loss (%)	Collection Efficiency (%)	AT&C losses (%)
1101110-(O&M, Kishangarh)	113.56	103.95	9.61	8.46%	99.70%	8.74%
1101120- (Rural, Kishangarh)	467.08	437.67	29.41	6.30%	100.06%	6.24%
1101130- (RIICO, Kishangarh)	292.83	287.15	5.68	1.94%	100.05%	1.89%
1101140- (O&M, Rupangarh)	171.85	154.59	17.26	10.04%	100.06%	9.99%
1101150-(O&M,Arain)	34.50	32.08	2.43	7.03%	100.12%	6.91%
1101310- (O&M, Kekri)	163.94	157.67	6.26	3.82%	100.44%	3.40%
1101320- (O&M, Sawar)	54.05	50.40	3.66	6.76%	100.02%	6.75%
1101330- (ONM, Sarwar)	69.00	63.25	5.76	8.34%	100.07%	8.28%
1101510- (O&M, Bijainagar)	58.76	51.68	7.08	12.05%	100.14%	11.93%
1101520-(O&M, Nasirabad)	161.89	148.05	13.85	8.55%	100.12%	8.45%
1101530-(O&M, Bhinai)	60.34	53.93	6.42	10.63%	100.23%	10.43%

MBC Area (CSD-I/II/III/IV)	750.74	664.05	86.69	11.55%	99.79%	11.73%
1102150-(O&M, Gangapur)	96.23	88.43	7.80	8.11%	102.10%	6.17%
1102160-(O&M, Raipur)	59.37	56.47	2.90	4.89%	100.77%	4.16%
1102220-(Rural-II,Suwana)	597.79	622.87	-25.08	-4.20%	100.40%	-4.61%
1102330-(O&M, Jahajpur)	63.22	54.29	8.93	14.12%	101.44%	12.89%
1102340-(O&M, Shahpura)	50.48	41.99	8.50	16.83%	102.48%	14.77%
1102350- (Rural, Jahajpur)	63.82	56.01	7.81	12.23%	102.50%	10.04%
1102360-(O&M,Phuliya)	32.53	26.39	6.13	18.85%	100.39%	18.54%
1102230-(O&M, Bijoliya)	105.19	101.47	3.72	3.54%	102.24%	1.38%
1102240-(O&M, Kotri)	82.31	74.55	7.76	9.43%	100.67%	8.82%
1102250-(O&M, Mandalgarh)	81.61	77.99	3.62	4.44%	100.98%	3.50%
1102210-(Rural-I, Bhilwara)	296.82	297.50	-0.68	-0.23%	100.14%	-0.37%
1102260-(O&M, Bigod)	87.51	86.76	0.76	0.86%	100.91%	-0.04%
1102440-(O&M, Kareda)	84.45	75.18	9.28	10.99%	100.26%	10.75%
1102430-(O&M, Mandal)	375.09	377.80	-2.72	-0.72%	99.78%	-0.51%
1102310-(O&M, Banera)	188.17	182.25	5.92	3.14%	100.15%	3.00%
1102510-(O&M, Asind)	96.45	85.40	11.05	11.46%	100.94%	10.62%
1102520-(O&M, Badnore)	49.90	42.79	7.11	14.24%	101.88%	12.63%
1102530-(O&M, Hurda)	537.59	528.59	9.00	1.67%	100.46%	1.22%
1103110-(O&M, Makarana)	104.52	76.04	28.48	27.25%	101.88%	25.88%
1103120-(REC, Makarana)	109.89	92.16	17.72	16.13%	102.76%	13.81%
1103130-(O&M, Parabatsar)	162.91	148.02	14.89	9.14%	101.72%	7.58%
1103140-(O&M, Bagot)	93.95	81.67	12.28	13.07%	103.16%	10.33%
1103150-(O&M,Gacchipura)	48.18	39.09	9.08	18.86%	108.75%	11.76%
1103220-(O&M, Merta city)	124.57	112.40	12.17	9.77%	99.07%	10.60%
1103230-(REC, Merta City)	256.48	208.59	47.88	18.67%	100.89%	17.95%
1103240-(O&M, Riyabari)	106.52	88.45	18.07	16.97%	100.03%	16.94%
1103250-(O&M,Gotan)	276.95	233.36	43.59	15.74%	100.33%	15.46%
1103310-(O&M, Nagaur)	101.16	87.81	13.36	13.20%	100.98%	12.36%
1103320-(REC, Nagaur)	143.63	90.53	53.10	36.97%	100.47%	36.67%
1103330-(O&M, Khinvasar)	775.95	481.16	294.78	37.99%	101.19%	37.25%
1103340-(O&M, mundawa)	506.08	385.68	120.40	23.79%	100.09%	23.73%
1103350-(O&M,Deh)	96.44	63.43	33.02	34.23%	100.26%	34.06%
1103510-(O&M, Deedwana)	121.28	101.17	20.10	16.58%	100.01%	16.57%
1103520-(O&M, Jayal)	156.19	107.61	48.57	31.10%	100.56%	30.72%
1103530-(O&M, Molasar)	153.90	124.64	29.26	19.01%	109.77%	11.10%
1103560-(O&M,Choti Khatu)	70.09	53.09	17.00	24.25%	102.08%	22.68%
1103570-(O&M, Roll)	85.59	59.10	26.49	30.95%	100.33%	30.72%
1103610-(O&M, Kuchaman City)	51.40	45.92	5.48	10.66%	100.61%	10.12%
1103620-(O&M, Chitawa)	188.63	144.15	44.48	23.58%	100.82%	22.96%
1103630-(O&M, Nawa City)	155.01	127.11	27.90	18.00%	101.14%	17.07%
1103640-(Kuchaman (REC))	106.71	90.90	15.82	14.82%	102.15%	12.99%
1103730-(O&M, Degana)	71.20	54.88	16.32	22.92%	101.59%	21.70%
1103720-(O&M,Bherunda)	91.14	84.65	6.49	7.12%	102.20%	5.08%

1103710-(O&M, Sanju)	184.15	142.59	41.56	22.57%	100.70%	22.03%
1103820-(O&M, Ladnu)	55.45	48.26	7.19	12.96%	100.79%	12.28%
1103830-(Rural, ladnu)	50.55	39.73	10.82	21.41%	100.95%	20.66%
1103810-(O&M,Nimbijodha)	105.54	72.33	33.21	31.47%	100.99%	30.79%
1104320-(O&M, Madar)	121.18	113.17	8.00	6.60%	101.01%	5.66%
1104330-(O&M, Pushkar)	96.52	86.72	9.80	10.15%	101.24%	9.04%
1104310-(O&M, Saradhana)	107.19	96.44	10.75	10.03%	100.39%	9.68%
1104340-(O&M, Pisangan)	61.39	52.85	8.54	13.91%	100.39%	13.58%
1104410- (O&M-I,Beawar)	59.68	54.33	5.34	8.96%	102.60%	6.59%
1104420-(O&M- II,Beawar)	70.69	66.16	4.53	6.41%	101.19%	5.30%
1104430-(O&M, Jawaja)	26.08	23.14	2.94	11.26%	100.56%	10.76%
1104440-(O&M, Masuda)	59.81	52.44	7.37	12.33%	100.44%	11.94%
1104450-(RIICO , Beawar)	255.08	243.83	11.25	4.41%	97.84%	6.48%
1201610-(O&M, Dantaramgarh)	58.53	55.18	3.35	5.72%	100.84%	4.93%
1201620-(O&M, Khachariyawas)	52.00	48.52	3.48	6.69%	100.29%	6.43%
1201630-(O&M, Khatushyamji)	101.07	95.07	6.00	5.93%	100.42%	5.54%
1201540-(O&M, Fatehpur)	68.88	62.63	6.25	9.07%	100.27%	8.83%
1201550-(Rural, Fatehpur)	76.38	65.73	10.65	13.94%	100.49%	13.52%
1201510-(O&M, Laxmangarh)	163.44	112.66	50.79	31.07%	99.55%	31.39%
1201520-(Rural, Laxmangarh)	101.14	107.70	-6.56	-6.48%	101.92%	-8.53%
1201530-(O&M, Nechhawa)	92.91	78.92	13.99	15.05%	100.55%	14.58%
1201560-(O&M, Ramgarh)	38.50	50.59	-12.09	-31.42%	99.78%	-31.13%
1201110-(O&M, Kanwat)t	84.52	74.56	9.97	11.79%	101.63%	10.35%
1201130- (O&M, Neem Ka Thana)	107.29	98.79	8.50	7.92%	100.41%	7.55%
1201150-(Rural, Neem Ka Thana)	79.10	69.70	9.40	11.88%	102.29%	9.87%
1201140-(O&M, Patan)	103.93	87.49	16.44	15.82%	102.96%	13.33%
1201120-(O&M, Khandela)	61.50	53.69	7.81	12.69%	102.33%	10.66%
1201240- (O&M, Palsana)	135.42	129.24	6.19	4.57%	100.62%	3.98%
1201220-(O&M, Reengus)	312.86	296.60	16.26	5.20%	100.67%	4.57%
1201330-(CSD-I, Sikar)	91.37	82.86	8.51	9.31%	99.74%	9.55%
1201350-(CSD-II, Sikar)	93.79	85.67	8.12	8.66%	99.68%	8.95%
1201360-(CSD-III, Sikar)	129.01	115.93	13.08	10.14%	99.13%	10.93%
1201420-(O&M, Piparali)	202.98	170.20	32.79	16.15%	100.02%	16.14%
1201410-(O&M, Dhod)	197.63	155.64	41.99	21.25%	100.32%	21.00%
1201430-(O&M, Kudan)	73.45	67.32	6.12	8.34%	99.58%	8.72%
1201320-(O&M, Losal)	149.11	120.06	29.05	19.48%	100.50%	19.08%
1201440-(Rural, Sikar)	179.50	149.09	30.41	16.94%	100.30%	16.69%
1201720-(O&M, Ajeetgarh)	213.49	191.46	22.03	10.32%	100.39%	9.97%
1201710-(O&M, Shrimadhopur)	92.27	83.46	8.82	9.56%	101.72%	8.00%
1201730-(O&M, Thoi)	43.62	37.69	5.93	13.59%	101.60%	12.21%
1202150-(O&M, Channa)	70.93	67.06	3.86	5.45%	100.53%	4.94%
1202110-(O&M,Chirawa)	147.77	130.05	17.71	11.99%	100.71%	11.37%
1202120-AEN (O&M, Pilani)	226.88	180.05	46.83	20.64%	102.01%	19.05%
1202130-(O&M, Sultana)	79.11	69.10	10.01	12.65%	101.20%	11.60%

1202140-(O&M, Surajgarh)	209.06	182.93	26.14	12.50%	101.05%	11.58%
1202220-(O&M, Jhunjhunu)	134.48	124.33	10.14	7.54%	100.42%	7.16%
1202210-(O&M, Mandawa)	57.67	52.89	4.78	8.28%	100.56%	7.77%
1202230-(O&M, Bissau)	52.20	48.77	3.43	6.57%	100.42%	6.18%
1202310-(O&M, Gudagoraji)	118.35	97.37	20.97	17.72%	101.06%	16.85%
1202320-(O&M, Mukundgarh)	127.62	112.35	15.27	11.97%	100.32%	11.68%
1202330-(O&M, Nawalgarh)	58.14	54.12	4.02	6.91%	100.31%	6.62%
1202340-(O&M, Udaipurwati)	129.25	114.04	15.20	11.76%	100.03%	11.74%
1202350-(Rural, Nawalgarh)	116.39	98.17	18.23	15.66%	100.59%	15.16%
1202360-(O&M,GURA)	76.60	63.18	13.42	17.52%	101.62%	16.18%
1202610-(O&M. Baggar)	122.37	110.77	11.60	9.48%	100.49%	9.04%
1202640-(O&M, Badagav)	103.41	86.50	16.91	16.35%	100.09%	16.28%
1202630-(O&M, Malsisar)	60.17	55.40	4.77	7.93%	100.54%	7.43%
1202620-(Rural, Jhunjhunu)	112.58	95.48	17.10	15.19%	100.87%	14.45%
1202510-(O&M, Buhana)	123.53	106.50	17.04	13.79%	102.58%	11.56%
1202520-(O&M,Khetri Nagar)	130.05	123.45	6.61	5.08%	101.45%	3.70%
1202530-(O&M,Khetri Town)	114.53	96.78	17.75	15.50%	102.65%	13.26%
1202540-(O&M, Babai)	77.06	66.90	10.16	13.19%	102.27%	11.22%
1301710-(O&M, Bhindar)	53.33	50.76	2.57	4.82%	101.45%	3.44%
1301750-(O&M,Kanod)	28.84	25.04	3.80	13.17%	102.72%	10.81%
1301720-(O&M, Vallabhnagar)	48.64	43.17	5.47	11.24%	101.22%	10.16%
1301740-(O&M) Bhatewar	52.94	46.33	6.60	12.47%	100.72%	11.84%
1301730-AEN (O&M, Kurabad)	23.48	21.32	2.16	9.22%	101.89%	7.50%
1301510-(O&M, Salumbar)	61.67	56.89	4.77	7.74%	101.37%	6.48%
1301550-(Rular, Salumbar)	37.43	34.17	3.26	8.71%	101.57%	7.28%
1301560-(O&M, Veerpura)	43.26	39.10	4.17	9.63%	101.83%	7.97%
1301570-(O&M,Lasadiya)	38.35	33.80	4.55	11.88%	100.91%	11.07%
1301810-(O&M, Kherwara)	68.19	64.92	3.27	4.80%	102.03%	2.87%
1301830-(O&M, Rishabdev)	97.91	93.05	4.86	4.96%	101.83%	3.22%
1301820-AEN (O&M, Sarada)	51.74	48.59	3.15	6.09%	101.15%	5.01%
1301110-(PH-I, Udaipur)	60.72	55.25	5.47	9.01%	100.12%	8.90%
1301120-(PH-II, Udaipur)	24.76	22.72	2.04	8.25%	100.36%	7.91%
1301130-(O&M, Ambamata)	96.34	94.31	2.02	2.10%	100.12%	1.98%
1301140-(O&M, Madhuvan)	183.31	168.23	15.08	8.23%	100.17%	8.07%
1301430-(O&M, Debari)	235.96	224.62	11.34	4.81%	100.14%	4.67%
1301410-(O&M, Mavali)	150.33	139.02	11.30	7.52%	101.16%	6.45%
1301420-(O&M, Girwa)	384.57	356.89	27.68	7.20%	100.17%	7.04%
1301310-(O&M, Badgaon)	117.07	110.08	6.99	5.97%	100.84%	5.18%
1301320-(O&M, gogunda)	48.76	45.11	3.65	7.49%	100.74%	6.81%
1301340-(O&M, Jhadol)	78.33	75.50	2.83	3.62%	102.32%	1.38%
1301330-(O&M, Kotra)	33.77	29.94	3.83	11.34%	100.26%	11.10%
1301220-(O&M, Ashok Nagar)	80.84	76.76	4.08	5.04%	100.45%	4.61%
1301230-(O&M, Madri)	355.70	341.16	14.53	4.09%	100.28%	3.81%
1301240-(O&M, Savina)	140.99	132.59	8.40	5.96%	100.83%	5.17%

1301210-(Sector-4, Udaipur)	87.59	81.76	5.83	6.66%	100.92%	5.80%
1302110-(O&M, Amet)	155.29	139.78	15.52	9.99%	100.10%	9.90%
1302130-(O&M, Deogarh)	104.92	94.94	9.99	9.52%	100.01%	9.51%
1302120- (O&M, Kelwara)	26.01	22.60	3.41	13.10%	100.18%	12.94%
1302150-(O&M,Janawad)	18.01	15.97	2.04	11.30%	100.78%	10.61%
1302140-(O&M, Bheem)	35.23	30.57	4.65	13.21%	100.28%	12.97%
1302220-(O&M, Rajnagar)	121.95	114.59	7.36	6.04%	100.50%	5.56%
1302230-(O&M, Railmagara)	627.64	608.76	18.87	3.01%	100.04%	2.97%
1302250-(O&M,Gilund)	23.21	21.45	1.77	7.61%	100.07%	7.55%
1302210-(O&M, Kankroli)	124.98	117.01	7.97	6.38%	100.27%	6.13%
1302240-(O&M, Kelwa)	329.02	314.33	14.70	4.47%	100.07%	4.40%
1302330-(O&M, Delwara)	47.72	43.03	4.69	9.84%	100.41%	9.47%
1302310-(O&M, Nathdwara)	98.24	87.59	10.65	10.84%	100.80%	10.12%
1302320-(O&M, Khamanore)	39.42	34.67	4.75	12.04%	100.92%	11.23%
Banswara CITY-I	274.33	257.44	16.89	6.16%	100.05%	6.11%
Banswara CITY-II	54.34	43.54	10.81	19.88%	102.43%	17.93%
1303120-(Rural, Banswara)	173.39	160.97	12.42	7.16%	101.61%	5.67%
1303140-(O&M, Ghatol)	88.90	76.97	11.92	13.41%	101.26%	12.32%
1303150-(O&M), Chhoti Sarvan	34.72	32.02	2.71	7.80%	100.54%	7.30%
1303220-(O&M, Bagidora)	81.93	61.24	20.68	25.25%	100.25%	25.06%
1303230-(O&M, Partapur)	73.33	68.89	4.43	6.05%	101.07%	5.04%
1303240-(O&M, Garhi)	63.35	56.44	6.91	10.91%	102.09%	9.05%
1303320-(O&M, Kushalgarh)	62.57	56.89	5.68	9.08%	102.24%	7.04%
1303330-(O&M, Anandpuri)	43.70	31.92	11.78	26.96%	99.07%	27.64%
1303310-(O&M,Sajjanganrh)	40.62	35.93	4.69	11.55%	100.77%	10.87%
1304410-(O&M, Begun)	186.03	181.09	4.95	2.66%	101.56%	1.14%
1304420-(O&M, Bassi)	71.78	67.47	4.31	6.00%	103.90%	2.33%
1304430-(O&M, Rawatbhata)	188.99	170.45	18.55	9.81%	100.59%	9.28%
1304110-(O & M, Chittorgarh)	65.70	60.46	5.24	7.98%	99.89%	8.08%
1304180-(O&M-II,Chittorgarh)	285.36	274.31	11.05	3.87%	100.53%	3.36%
1304120-(REC, Chittorgarh)	666.35	644.75	21.60	3.24%	100.48%	2.77%
1304170-(O&M, Sawa)	313.97	294.68	19.28	6.14%	103.55%	2.81%
1304130-(O&M, Gangrar)	213.66	183.47	30.19	14.13%	100.89%	13.36%
1304230-(O&M, Badi Sadari)	122.82	118.20	4.62	3.76%	101.09%	2.71%
1304250-(O&M, Dungala)	97.10	98.52	-1.41	-1.45%	101.47%	-2.95%
1304210-(O&M, Nimbahera)	231.44	226.77	4.67	2.02%	100.76%	1.28%
1304220-(REC, Nimbahera)	119.47	108.07	11.40	9.54%	102.41%	7.37%
1304240-(O&M, Bhadesar)	146.00	131.08	14.92	10.22%	104.77%	5.93%
1304260-(O&M, Mangrol)	584.58	571.30	13.28	2.27%	100.16%	2.12%
1304320-(O&M, Bhopalsagar)	60.48	56.66	3.81	6.30%	101.47%	4.92%
1304310-(O&M, Kapasan)	116.90	105.79	11.11	9.50%	101.63%	8.02%
1304330-(O&M, Rashami)	78.64	74.02	4.62	5.88%	102.13%	3.87%
1305130-(O&M, Bichhiwara)	103.36	98.04	5.32	5.15%	100.43%	4.74%
1305140-(O&M, Dhambola)	86.16	85.25	0.91	1.05%	101.44%	-0.37%

1305120-(Rural, Dungarpur)	57.44	54.12	3.32	5.79%	97.64%	8.00%
1305110-(O&M, Dungarpur)	105.02	98.62	6.40	6.09%	99.29%	6.76%
1305250-(O&M, Aspur)	40.36	36.08	4.28	10.62%	103.94%	7.09%
1305240-(O&M, Sabla)	28.98	27.68	1.30	4.48%	104.07%	0.59%
1305220-(Rural, Sagwara)	56.68	54.26	2.42	4.27%	102.13%	2.24%
1305210-(City, Sagwara)	57.16	54.71	2.45	4.28%	100.95%	3.37%
1305230-(O&M, Chithri)	57.37	56.70	0.68	1.18%	99.86%	1.32%
1306130-(O&M, Arnod)	46.12	43.93	2.19	4.76%	101.12%	3.69%
1306110-(O&M, Pratapgarh)	83.35	81.77	1.57	1.89%	105.38%	-3.39%
1306140-(O&M, Dalot)	83.20	78.79	4.41	5.30%	97.44%	7.72%
1306120-(O&M, Pipalkhut)	55.77	52.61	3.16	5.67%	101.27%	4.47%
1306210-(REC, Pratapgarh)	87.25	85.28	1.97	2.26%	100.85%	1.43%
1306220-(O&M, Choti Sadari)	82.36	77.86	4.50	5.46%	100.44%	5.04%
1306230-(Rural, Choti Sadri)	78.68	75.04	3.64	4.63%	100.96%	3.71%
1306240-(O&M, Dhariyawad)	78.06	63.21	14.85	19.03%	99.58%	19.37%

**The revenue collected shall exclude the arrears. However, in case figures of arrears not available separately, there is possibility to getting collection efficiency figures of more than 100%. In such cases, efficiency shall be restricted to 100% and shall be used for computation of AT&C losses. The amount attributing collection efficiency higher than 100% shall be treated collection against arrears.*

The sub-division wise input energy data is based on the bifurcation of circle wise periphery in Circles. The Input Energy excludes the renewable energy exported to DisCom network. Some sub-divisions has negative Distribution/AT&C losses may be due to inaccuracies in bill in system metering, erratic consumer indexing or excluding embedded Net Solar Energy export.

Subdivisions having high T&D losses are identified as under.

Table 41 Sub divisions with high T&D and AT&C losses

Name of Sub Division	Distribution losses (%)	AT&C losses (%)
1103330-(O&M, Khinvasar)	37.99%	37.25%
1103320-(REC, Nagaur)	36.97%	36.67%
1103350-(O&M, Deh)	34.23%	34.06%
1201510-(O&M, Laxmangarh)	31.07%	31.39%
1103810-(O&M, Nimbijodha)	31.47%	30.79%
1103570-(O&M, Roll)	30.95%	30.72%
1103520-(O&M, Jayal)	31.10%	30.72%
1303330-(O&M, Anandpuri)	26.96%	27.64%
1103110-(O&M, Makarana)	27.25%	25.88%
1303220-(O&M, Bagidora)	25.25%	25.06%

Above are the 10 subdivisions which are having high Distribution losses and AT&C losses, having these losses greater than 25%.

5.2.5 Feeder wise and DTR wise assessed losses

The feeder wise losses and DTR wise losses are detailed out in annexure XIV.8

5.2.6 Circle wise assessed losses

Table 42 Circle wise assessed losses for the year 2022-23

S.No.	Name of circle	Input energy (MU)	Billed energy (MU)	Distribution losses (MU)	T&D loss (%)	% contribution of the circle in overall T&D losses
1	ADC	1647.81	1540.40	107.40	6.52%	3.97%
2	BHILWARA	3699.26	3540.77	158.49	4.28%	5.85%
3	NAGPUR	4554.05	3484.53	1069.52	23.48%	39.50%
4	ACC	857.61	789.08	68.53	7.99%	2.53%
5	SIKAR	3103.71	2746.45	357.26	11.51%	13.19%
6	JHUNJHUNU	2448.13	2136.18	311.95	12.74%	11.52%
7	UDAIPUR	2684.82	2511.09	173.73	6.47%	6.42%
8	RAJSAMAND	1751.64	1645.28	106.36	6.07%	3.93%
9	BANSWARA	991.17	882.24	108.93	10.99%	4.02%
10	CHITTORGARH	3549.27	3367.09	182.18	5.13%	6.73%
11	DUNGARPUR	592.54	565.46	27.08	4.57%	1.00%
12	PRATAPGARH	594.79	558.49	36.30	6.10%	1.34%

- From the above table, it is evident that Nagaur circle is the circle with highest T&D losses of 23.48% and also the highest contributor (39.50%) in the overall T&D losses of AVVNL.

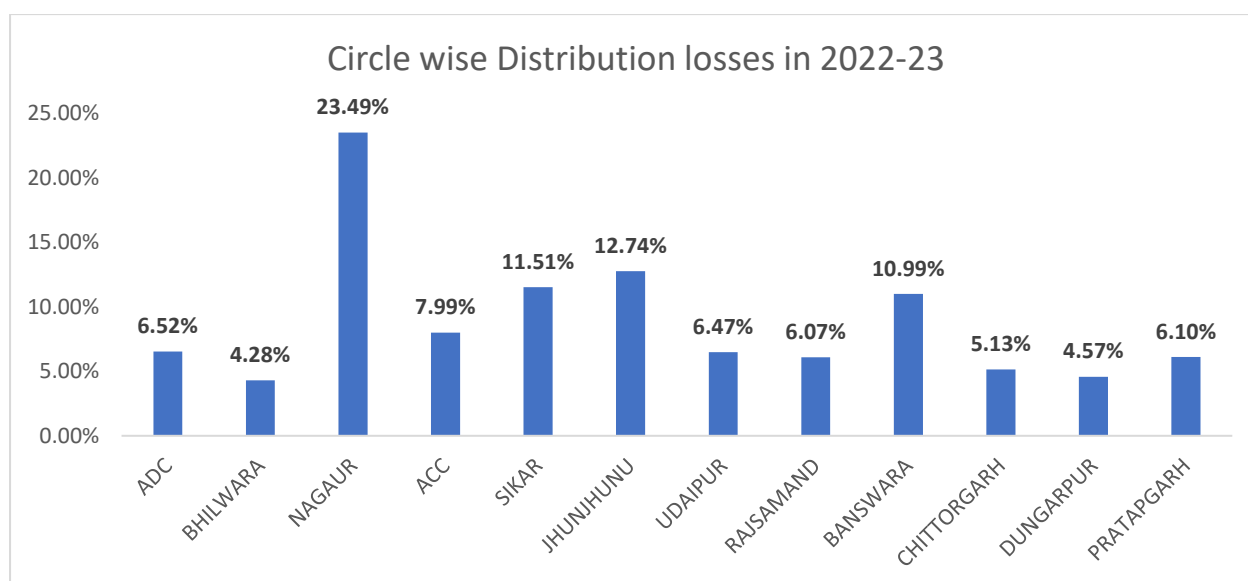


Figure 9 Circle wise T&D losses in 2022-23

Table 43 Circle wise AT&C losses for the year 2022-23

S.No.	Name of circle	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	AT&C losses (%)
1	ADC	1347.417	1348.534	100.08%	6.44%
2	BHILWARA	2774.735	2786.735	100.43%	3.87%
3	NAGPUR	2549.716	2583.506	101.33%	22.47%
4	ACC	685.2037	685.2856	100.01%	7.98%
5	SIKAR	2166.351	2178.555	100.56%	11.01%
6	JHUNJHUNU	1666.155	1683.292	101.03%	11.84%
7	UDAIPUR	2145.422	2159.992	100.68%	5.84%
8	RAJSAMAND	1369.058	1371.76	100.20%	5.89%
9	BANSWARA	670.9335	677.3434	100.96%	10.14%
10	CHITTORGARH	2419.667	2450.28	101.27%	3.93%
11	DUNGARPUR	439.6317	442.6117	100.68%	3.92%
12	PRATAPGARH	389.4128	392.4935	100.79%	5.36%

- The Nagaur circle is the one with the highest AT&C losses among all the circles.

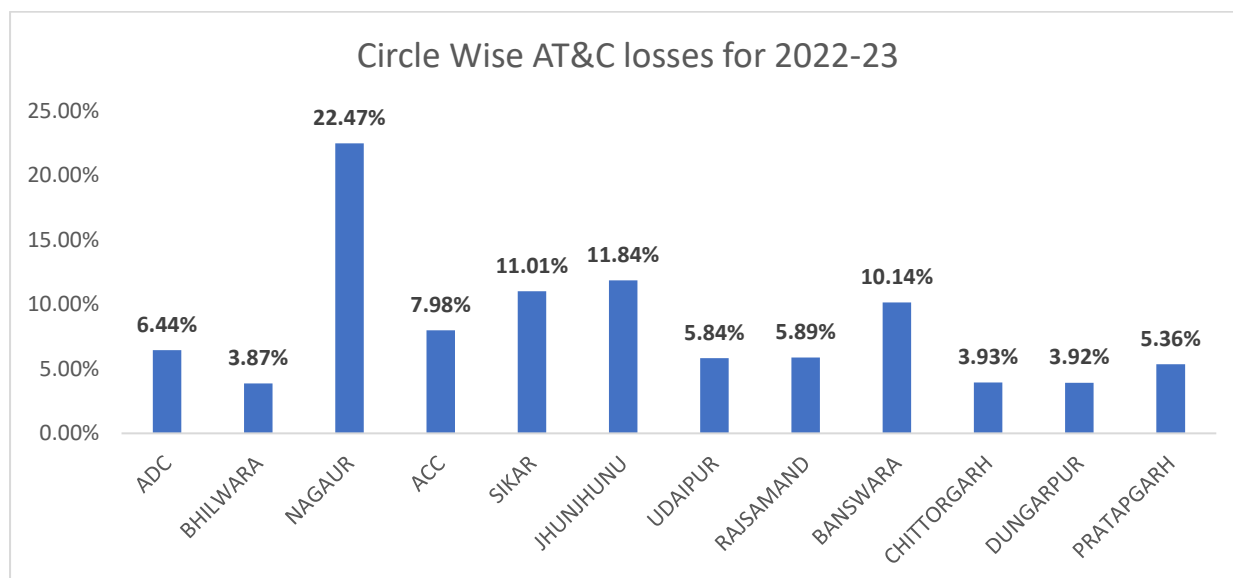


Figure 10 Circle wise AT&C losses for the year 2022-23

5.2.7 Identification of loading of segments/infrastructure

Table 44 Sub division wise loading assessment for 2022-23

Name of Subdivision	Connected load (MW)	Billed Energy (MU)	Load factor (%)
1101110-(O&M, Kishangarh)	92.19	103.95	12.87%
1101120- (Rural, Kishangarh)	270.52	437.67	18.47%
1101130- (RIICO, Kishangarh)	208.42	287.15	15.73%
1101140- (O&M, Rupangarh)	109.32	154.59	16.14%
1101150-(O&M,Arain)	31.36	32.08	11.68%
1101310- (O&M, Kekri)	88.47	157.67	20.34%
1101320- (O&M, Sawar)	43.26	50.40	13.30%
1101330- (ONM, Sarwar)	56.07	63.25	12.88%
1101510- (O&M, Bijainagar)	36.36	51.68	16.22%
1101520-(O&M, Nasirabad)	86.66	148.05	19.50%
1101530-(O&M, Bhinai)	36.15	53.93	17.03%
MBC Area (CSD-I/II/III/IV)	68.81	664.05	110.17%
1102150-(O&M, Gangapur)	72.78	88.43	13.87%
1102160-(O&M, Raipur)	42.04	56.47	15.33%
1102220-(Rural-II,Suwana)	213.06	622.87	33.37%
1102330-(O&M, Jahajpur)	31.63	54.29	19.60%
1102340-(O&M, Shahpura)	31.79	41.99	15.08%
1102350- (Rural, Jahajpur)	38.41	56.01	16.65%
1102360-(O&M,Phuliya)	19.44	26.39	15.50%
1102230-(O&M, Bijoliya)	69.11	101.47	16.76%
1102240-(O&M, Kotri)	52.54	74.55	16.20%
1102250-(O&M, Mandalgarh)	55.65	77.99	16.00%
1102210-(Rural-I, Bhilwara)	134.59	297.50	25.23%
1102260-(O&M, Bigod)	58.04	86.76	17.06%
1102440-(O&M, Kareda)	81.09	75.18	10.58%
1102430-(O&M, Mandal)	129.14	377.80	33.40%
1102310-(O&M, Banera)	86.19	182.25	24.14%
1102510-(O&M, Asind)	73.74	85.40	13.22%
1102520-(O&M, Badnore)	35.17	42.79	13.89%
1102530-(O&M, Hurda)	218.84	528.59	27.57%
1103110-(O&M, Makarana)	73.73	76.04	11.77%
1103120-(REC, Makarana)	70.61	92.16	14.90%
1103130-(O&M, Parabatsar)	88.42	148.02	19.11%
1103140-(O&M, Bagot)	53.64	81.67	17.38%
1103150-(O&M,Gacchipura)	37.45	39.09	11.92%
1103220-(O&M, Merta city)	87.58	112.40	14.65%
1103230-(REC, Merta City)	118.72	208.59	20.06%
1103240-(O&M, Riyabari)	62.81	88.45	16.08%
1103250-(O&M,Gotan)	130.97	233.36	20.34%