ANNUAL ENERGY AUDIT REPORT



KASHMIR POWER DISTRIBUTION CORPORATION LIMITED

(KPDCL)

Exhibition Ground, Opposite High Court, Jahanagir Chowk, Srinagar – 190009 (Jammu & Kashmir)

FY 2023 -24

Conducted by



A-Z Energy Engineers Private Limited

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Table of Contents

List o	f Abbreviations	5
Ackn	owledgement	6
1.	Executive Summary	7
1.1. 1.2. 1.3.	Goals and Objectives About Energy Audit firm AT&C losses for FY 2023-24	7 8 8
2.	Background	9
2.1. 2.2. 2.3.	Extant Regulations and role of BEE Purpose of Audit and Accounting Report Period of Energy Auditing and accounting	9 11 12
3.	DISCOM Introduction and Overview	13
3.1. 3.2. 3.3. 3.4. 3.5.	Name and address of DISCOM Name and contact details of energy manager (BEE Certified, if any) and Authorized sign DISCOM (Nodal Officer) Summary profile of DISCOM Electrical infrastructure and Assets Voltage wise Energy Conservation measures	13 natory o 13 13 18 24
4.	Energy flow analysis	26
4.1. 4.2. 4.3. 4.4. 4.5. 4.6. 4.7.	Energy flow across Service Levels Validation of metered data Validation of energy flow data and losses Energy accounts analysis for previous year Energy accounts analysis and performance in current year (based on quarterly data) Subsidy computation and analysis (based on quarterly data) Trend analysis and identification of key exceptions	26 27 28 30 32 46 47
5.	Energy Audit findings	48
5.1. 5.2. 5.3. 5.4.	Review of capacity of DISCOM's energy accounting and audit wing Critical Analysis Revised findings based on data validation and field verification Inclusions and Exclusions	48 48 56 56
6.	Conclusion and Action Plan	57
6.1. 6.2. 6.3. 6.4. 6.5. 6.6.	Summary of critical analysis and way forward proposed by Energy Auditor Summary of key findings – energy balance and losses Recommendations and best practices Action plan for line loss reduction Action plan for monitoring and reporting Action plan for automated energy accounting	57 58 58 59 62 62
Annex	kures	65
Anne Anne Anne Anne Anne Anne Anne Anne	exure I - Introduction of Verification Firm exure II - Minutes of Meeting with the DISCOM team exure III - Check List prepared by auditing Firm exure IV - Brief Approach, Scope & Methodology for audit exure V - Infrastructure Details exure VI - Power Purchase Details exure VII - Single Line Diagram (SLD) exure VIII - Category of service details (With Consumer and voltage-wise) exure IX - Field Verification data and reports exure X - List of documents verified with each parameter exure XI - Brief Description of Unit exure XII - Detailed Formats	65 67 68 69 70 71 75 80 81 87 88

List of Tables

Table 1: Energy Balance & Losses for FY 2023-24	
Table 2: Period of Energy Auditing and accounting	
Table 3: Name and Address of DISCOM	
Table 4: Details of energy manager and Authorized signatory of DISCOM $\ensuremath{\boldsymbol{.}}$	
Table 5: Details of Energy Manager and Authorized Signatory of DISCOM \dots	
Table 6: Administrative hierarchy structure in KPDCL	
Table 7: Administrative hierarchy in KPDCL upto section level	
Table 8: Customer Profile for FY 2023-24	
Table 9: Network Infrastructure details	
Table 10: Input Energy & Infrastructure details	
Table 11: Voltage wise Meter Consumers	
Table 12: Numbers of Distribution Transformers	
Table 13: Voltage wise numbers of Feeders	
Table 14: Length of Distribution Lines	
Table 15: Energy Flow details	
Table 16: Month wise Input Energy for FY 2023-24	
Table 17: Month wise Billed Energy for FY 2023-24	
Table 18: Voltage wise consumption pattern	
Table 19: Energy Flow at different Voltage level Losses for FY 2023-24	
Table 20: AT&C losses in FY 2021-22	
Table 21: Circle wise T&D and AT&C losses in FY 2022-23 & 2023-24	
Table 22: Month wise Purchase, input energy & billed energy for FY 2023-2	
Table 23: Energy Input and AT&C Losses for FY 2023-24	
Table 24: Voltage-wise AT&C Losses for FY 2023-24	
Table 25: Circle wise No. of consumers, Input energy and Sales in FY 2023	
Table 26: Circle wise T&D losses, Collection Efficiency and AT&C losses for	
Table 27: Division wise T&D losses, Collection Efficiency and AT&C losses for	
Table 28: Top 10 Divisions with higher AT&C losses (%) & T&D losses (%)	
Table 29: Quarter wise – Division wise subsidy details	
Table 30: Summary of AT&C & T& D Trends or Last three years	
Table 31: Substation loss analysis	
Table 32: Compliance status w.r.t Timelines and Pre-requisites	
Table 33: Summary of Data gaps	
Table 34: Comments by Energy Auditor and responses of DISCOM manage	
Table 35: Energy balance and losses	
Table 36: Infrastructure details	
Table 37: Metering details	
Table 38: Month wise power purchase	
Table 39: Circle wise monthly input & Billed energy (MU)	
Table 40: Category of service details	
Table 41: Field inspection details	
Table 42: List of documents verified with each parameter	
Table 43: Formulas used to derive the parameters	89
List of Figures	
List of Figures	
Figure 1: Regulatory framework for Energy Accounting & Audit	
Figure 2: Organogram of Energy Accounting wing in the DISCOM	
Figure 3: Month wise Purchase Energy (MU) pattern	
Figure 4: Monthly Energy Input and Energy billed pattern	
Figure 5: Circle wise Energy Input (MU) and Energy billed (MU) pattern \dots	
Figure 6: Circle wise T&D and AT&C Compression	

Figure 7: Circle wise T&D losses (MUs) Vs T&D losses (%)	. 36
Figure 8: Division wise T&D losses (MUs) Vs AT&C losses (%)	
Figure 9: Division wise Collection efficiency (%)	
Figure 10: Single Line Diagram (SLD) of KPDCI	

List of Abbreviations

AMI Advanced Metering Infrastructure

AMR Automated Meter Reading

AMRUT Atal Mission for Rejuvenation and Urban Transformation

AT&C Aggregate Technical and Commercial

BEE Bureau of Energy Efficiency

ckt Circuit

CT Current Transformer
DC Designated Consumer

DEEP Discovery of Efficient Electricity Price
DISCOM Electricity Distribution Company

DT Distribution Transformer

EA Energy Auditor
EHT Extra High Tension
EHV Extra High Voltage
EM Energy Manager
FY Financial Year
HT High Tension

HVDS High Voltage Distribution System

KVA Kilo Volt Ampere
LT Low Tension
MoP Ministry of Power
MU Million Units
MW Mega Watt
NO Nodal Officer
OA Open Access

POC Point of Connection
PT Potential Transformer
PX Power Exchange
RE Renewable Energy

RLDC Regional Load Dispatch Centre

SDA State Designated Agency
SLD Single Line Diagram

SLDC State Load Dispatch Centre T&D Transmission and Distribution

Acknowledgement

We would like to express our heartfelt gratitude to the KPDCL, Jammu & Kashmir for providing us the opportunity to conduct the Annual Energy Audit of their DISCOM for FY 2023-24, in accordance with the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2022 and its Amendments.

We are immensely grateful to the management of KPDCL, Jammu & Kashmir for their invaluable cooperation and providing us with all the relevant information necessary for the successful completion of the Annual Energy Audit.

In this regard, we express our sincere thanks to Mr. Mahmood A Shah (KAS), Managing Director, KPDCL and Ms. Aaguib Sultana W Dewa, Chief Engineer (D), KPDCL for reposing their faith in us to conduct Annual Energy audit of KPDCL for third year in running. We also express our sincere thanks to Er. Shabir A Khan, CEO, IT & C Division (Energy Manager) KPDCL and his team for extending necessary co-operation and providing all relevant information for successful completion of the Audit.

We look forward to a continued partnership with KPDCL, Jammu & Kashmir and we look forward to their continued support in all our future endeavours.

> Signature Name: Dr. P.P Mittal Paridabad Designation: Director

> > Registered No: AEA-011

Firm: A-Z Energy Engineers Pvt. Ltd.

Engine

Accredited

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1. Executive Summary

Kashmir Power Distribution Corporation Limited (KPDCL)—a state-owned Power Distribution Utility. KPDCL has the privilege of empowering millions of people by supplying electricity in their homes as well as to places where they do all kinds of activities - agricultural (or allied), commercial, industrial & others. KPDCL has a consumer base of more than Eleven Lakh consumers spread over 10 districts of Kashmir region. The Company, headquartered at Jehangir Chowk, Srinagar, functions with 06 Circles, 19 Divisions and 67 Sub-divisions. KPDCL has a unique mix of consumers i.e. on one hand it caters to industrial consumers alongside urban areas and on the other it caters to agricultural consumers, scattered tribal & forest area consumers. Thus the expansive operational area and motley consumer mix sets KPDCL apart from private utilities which usually cater only to urban landscapes. In a bid to provide its valued consumers with quality power supply, the company undertakes various infrastructure revamping and technical upgradation programs on continual basis like laying of underground cables and installations of RMUs, creation of new feeders and bifurcation of existing feeders, erection of new sub-stations, creation of new transformer centers, etc. The consumer centric initiatives include dedicated fault restoration centers at the sub-divisional level, 24 x 7 centralized Customer Care Centre at Bemina, Srinagar and a range of services available online on KPDCL Website and Mobile Application. In addition, KPDCL also hears and redresses consumer grievances through public for aregularly.

While the Input Energy purchase, Net Input energy at DISCOM Periphery and Energy billed for the customer is **11124.05 MU**, **10841.30 MU** and **5205.55 MU**, the monthly consumption per customer stands at **373.64 KWH/Month**. KPDCL caters to area spread in 6 circles, 19 Division.

1.1. Goals and Objectives

KPDCL is a Designated Consumer in DISCOM sector. Being a Designated Consumer KPDCL need to have an Annual Energy Audit (Accounting) of their facilities as per BEE notification No 18/1/BEE/DISCOM/2021 dated 6th October 2021.

The Annual Energy Audit (Accounting) at KPDCL is conducted with the following Objectives:

- Verification of existing pattern of energy distribution across periphery of electricity Distribution Company.
- Verification of accounted energy flow submitted by electricity Distribution Company at all applicable voltage levels of the distribution network.
- Verification of the accuracy of the data collected and analysis and processes the data with respect to consistency, improvement in accounting and reducing loss of DISCOM.
- Verification of the information submitted by Designated Consumer to the SDA/BEE about status of Energy Input, Output and Loss for the previous two years.
- Access the past performance of the establishment.
- Quantification of Energy Losses, and Energy Saving Potential.

1.2. About Energy Audit firm

A-Z Energy Engineers Pvt. Ltd. is an Accredited Energy Auditor from BEE and an ISO 9001:2015 certified company that aims to assist all stakeholders in implementing energy efficiency and creating awareness about the merits of energy efficiency and safety practices. They are empaneled by BEE for PAT M & V Audits and Mandatory Energy Audit Projects and have completed more than 1800 projects, including 80 PAT projects. The founder director, Shri. P.P Mittal, has received several awards and recognitions for his services in the field of energy. We have a pool of experienced BEE Accredited & Certified Energy Auditors, Electrical Engineers, Mechanical Engineers and Technicians having experience of more than 30 years. The Energy Audits is being carried out with sophisticated instruments namely Power-Analyzer, Flue Gas Analyzer, Ultra-sonic flow meter, Techo-meter, Anemometer, Hego-Meter, Digital Thermometer, Thermography Camera, Lux Meter, Leak detectors. Laser gun etc.

1.3. AT&C losses for FY 2023-24

Distribution area of KPDCL is dived into 6 circles & 19 divisions. The AT&C losses for FY 2023-24 are 40.65%. The AT&C losses for the FY 2023-24 are shown in the table below:

Table 1: Energy Balance & Losses for FY 2023-24

Energy Input Details	Formula	UoM	Value
Input Energy Purchase (From Generation Source)	А	MU	11124.05
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	В	MU	10841.30
Total Energy billed (is the Net energy billed, adjusted for energy traded))	С	MU	5205.55
Transmission and Distribution (T&D) loss Details	D	MU	5635.75
Transmission and Distribution (T&D) loss Details	E = D/B x 100	%	51.98%
Collection Efficiency	F	%	123.61%
Aggregate Technical & Commercial Loss	G = 1-{(1-E) x Min(F,100%)}	%	40.65%

2. Background

2.1. Extant Regulations and role of BEE

2.1.1. The Objectives of BEE

- To develop policies and programs on efficient use of energy and its conservation with the involvement of stakeholders.
- To plan, manage and implement energy conservation programs as envisaged in the EC Act.
- To assume leadership and provide policy framework and direction to national energy efficiency and conservation efforts and programs.
- To demonstrate energy efficiency delivery mechanisms, as envisaged in the EC Act, through Public-Private Partnership (PPP).
- To establish systems and procedures to measure, monitor and verify energy efficiency results in individual sectors as well as at the national level.
- To leverage multi-lateral, bi-lateral and private sector support in implementation of programs and projects on efficient use of energy and its conservation.
- To promote awareness of energy savings and energy conservation.

2.1.2. Role of BEE

- BEE coordinates with designated agencies, designated consumers and other organization
 working in the field of energy conservation/efficiency to recognize and utilize the existing
 resources and infrastructure in performing the functions assigned to the Bureau under the
 Energy Conservation Act.
- The Act provides regulatory mandate for standards & labelling of equipment and appliances; energy conservation building code for commercial buildings; and energy consumption norms for energy intensive industries.
- The EC Act was amended in 2010 to incorporate few additional provisions required to better equip BEE to manage ever evolving sphere of energy efficiency in the country.
- Create awareness and disseminate information on energy efficiency and conservation.
- Arrange and organize training of personnel and specialists in the techniques for efficient use of energy and its conservation.
- Strengthen consultancy services in the field of Energy Efficiency.
- Promote research and development.
- Develop testing and certification procedures and promote testing facilities.
- Formulate and facilitate implementation of pilot projects and demonstration projects.
- Promote use of energy efficient processes, equipment, devices and systems.

- Take steps to encourage preferential treatment for use of energy efficient equipment or appliances.
- Promote innovative financing of energy efficiency projects.
- Give financial assistance to institutions for promoting efficient use of energy and its conservation.
- Prepare educational curriculum on efficient use of energy and its conservation.
- Implement international co-operation programmes relating to efficient use of energy and its conservation.

2.1.3. Regulatory framework for Energy Accounting & Audit

The Energy Conservation Act 2001 (hereafter referred to as EC Act 2001) was enacted on 29th September 2001. The EC Act 2001 empowers BEE to notify regulations regarding energy conservation and efficiency improvement. In accordance with the EC Act 2001, BEE notified the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit) Regulations, 2021, on 6th October 2021. BEE subsequently amended these regulations with the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit) (Amendment) Regulations, 2022. The Ministry of Power (MoP) issued guidelines on 17th January 2023, for energy accounting and auditing of distribution companies, in line with the BEE regulations. Distribution companies and energy audit firms must comply with this regulatory framework when preparing energy accounts and audit reports. The regulatory framework for Energy accounting and Energy Auditing is shown in the below figure:

Energy Conservation Act 2001

Empowers BEE to issue Regulations and Guidelines for Energy Audit with an objective of improving energy efficiency and to reduce energy consumption

BEE Manner & Intervals for Conduct of Energy Audit in electricity distribution companies Regulations 2021

These regulations were issued to reduce inefficiencies and AT&C losses in DISCOMs and to ensuring financial viability of DISCOMs

Amendment in BEE Energy Audit in DISCOM Reg.

Mandates Energy Accounting & audit w.r.t Subsidy and at DT level 3

Guidelines for Energy Accounting & Auditing of DISCOMs

Issued to facilitate Energy Audit in DISCOMe.

It covers aspects of data collection, verification & validation

Energy Accounting & Auditing

Objectives of Energy Accounting & Auditing are to identify high loss areas & formulate corrective actions, subsidy claims based on reliable data, and improve overall Energy planning

Figure 1: Regulatory framework for Energy Accounting & Audit

Key highlights of the Regulatory framework are listed below:

- Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations for Conduct of Mandatory Annual Energy Audit and Periodic Energy Accounting in DISCOMs. As per the regulation, all Electricity Distribution Companies are mandated to conduct annual energy audit and periodic energy accounting on quarterly basis.
- Owing to the impact of energy auditing on the entire distribution and retail supply business
 and absence of an existing framework with dedicated focus on the same, it was imperative
 to develop a set of comprehensive guidelines that all Distribution utilities across India can
 follow and adhere to.
- Accordingly, Regulations on Manner and Intervals for Conduct of Energy Audit and Accounting in Electricity Distribution Companies has been framed. 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. Energy accounting and a consequent annual energy audit would help to identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action.
- These Regulations for Energy audit in Electricity Distribution Companies provides broad framework for conduct of Annual Energy Audit though and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.

2.2. Purpose of Audit and Accounting Report

KPDCL is a designated consumer in DISCOM sector. Being a designated Consumer KPDCL need to have Annual energy audit (Accounting) of their facilities as per BEE notification No 18/1/BEE/DISCOM/2021 dated 6th October 2021.

The energy intensity of India is higher with respect to GDP growth and there is an urgent need to address these issues on priority through integrated and comprehensive approach and by adopting latest techniques and technologies with active participation of all stakeholders.

Annual Energy Audit (Accounting) will not only help in reducing losses in system, but it also helps DISCOM in sustainable growth. The objective of this energy audit is to reduce T&D loss and AT&C loss of the DISCOM through identification of commercially viable and implementable schemes for reduction of technical and commercial loss in the DISCOM thus leading to sustainable energy cost reductions.

The Annual Energy Audit (Accounting) at KPDCL is conducted with the following Objectives:

 Verification of existing pattern of energy distribution across periphery of electricity Distribution Company.

- Verification of accounted energy flow submitted by Electricity Distribution Company at all applicable voltage levels of the distribution network.
- Verification of the accuracy of the data collected and analysis and processes the data with respect to consistency, improvement in accounting and reducing loss of DISCOM.
- Verification of the information submitted by Designated Consumer (KPDCL) to the SDA/BEE about status of energy input, Output and loss for the previous two years.
- Access the past performance of the establishment.
- Quantification of Energy Losses, and Energy Saving Potential.

2.3. Period of Energy Auditing and accounting

Energy audit activity for FY 2023-24 was started with a meeting at Head Office of KPDCL in the month of July 2024. Based on the requirement visit was made to Divisions, Subdivisions, Grid Sub stations etc. for data collection and technical discussion. The period of study was from April 2023 to March 2024

Table 2: Period of Energy Auditing and accounting

Particulars		Energy Acc	counting		Energy Audit
	Q1	Q2	Q3	Q4	FY 2023-24
Applicable period	1-Apr-23 to 30-Jun-23	1-Jul-23 to 30-Sep-23	1-Oct-23 to 31-Dec-23	1-Jan-24 to 31-Mar-24	1-Apr-23 to 31-Mar-24
Date of Commencement	07.08.2023	03.11.2023	13.02.2024	04.07.2024	03.07.2024
Date of Publishing	11.08.2023	08.11.2023	17.02.2024	08.07.2024	
Officer In charge	Er. Shurjeel Gani Lala	Er. Shurjeel Gani Lala	Er. Shurjeel Gani Lala	Er. Shurjeel Gani Lala	Dr. P P Mittal [AEA 0011] Registration No: EmAEA- 0024

3. DISCOM Introduction and Overview

3.1. Name and address of DISCOM

KPDCL is having its office at Exhibition Ground Opposite High Court, Jahangir Chowk, Srinagar – 190009 (J&K)

Table 3: Name and Address of DISCOM

Particulars	Details	
Name of DC	Kashmir Power Distribution Corporation Ltd.	
Address	Exhibition Grounds, Opposite High Court, Jahangir Chowk, Srinagar-190009 (J&K)	

3.2. Name and contact details of energy manager (BEE Certified, if any) and Authorized signatory of DISCOM (Nodal Officer)

The Energy Accounting / Audit wing is headed by Ms. Aaquib Sultana W Deva, Chief Engineer (D) and Er. Shabir A Khan, (Energy Manager). Mr. PP Mittal, proprietor A-Z Energy Engineers is a BEE certified Energy Manager has been appointed to conduct the Annual Energy Accounting job in KPDCL. The details of DISCOM's energy manager and authorized signatory for this report are shown below:

Table 4: Details of energy manager and Authorized signatory of DISCOM

Particulars	Details
Energy Manager	Er. Shabir A Khan Mobile : 9419424639 Email: shabirkhanjk@gmail.com
Authorized Signatory	Ms. Aaquib Sultana W Deva, Chief Engineer (D) Mobile: 9419753008, 7006863197 Email: ce.mre.kmr@gmail.com

3.3. Summary profile of DISCOM

3.3.1. Jurisdiction of DISCOM

Kashmir Power Distribution Corporation Limited (KPDCL) – a state-owned Power Distribution Utility. KPDCL has the privilege of empowering millions of people by supplying electricity in their homes as well as to places where they do all kinds of activities – agricultural (or allied), commercial, industrial & other. KPDCL has a consumer base of more than Eleven Lakh consumers spread over 10 districts of Kashmir region. The Company, headquartered at Jahangir Chowk, Srinagar, functions with 06 Circles, 19 Divisions and 67 Sub-divisions. KPDCL has a unique mix of consumers i.e. on one hand it caters to industrial consumers alongside urban areas and on the other it caters to agricultural consumers,

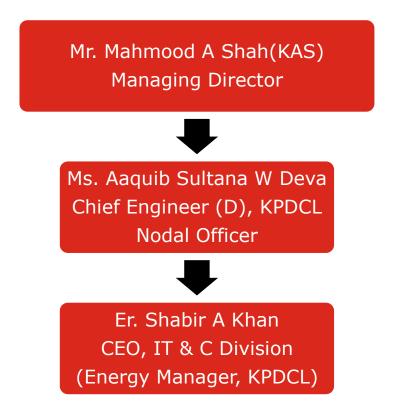
scattered tribal & forest area consumers. Thus the expansive operational area and motley consumer mix sets KPDCL apart from private utilities, which usually cater only to urban landscapes. In a bid to provide its valued consumers with quality power supply, the Company undertakes various infrastructure revamping and technical upgradation programs on continual basis like laying of underground cables and installations of RMUs, creation of new feeders and bifurcation of existing feeders, erection of new sub-stations, creation of new transformer centers, etc. Our consumer centric initiatives include dedicated fault restoration centers at every sub-division and a 24 x 7 centralized Customer Care center at Bemina, Srinagar.

While the Purchase, Net Input & Billed Energy by KPDCL for the customer is 11124.05 MU, 10841.30 MU &5205.55 MU the monthly consumption per customer stands at 373.64 KWH/Month. KPDCL caters to area spread in 6 circles, 19 Division.

3.3.2. Energy Accounting/Audit wing in the DISCOM:

The Energy Accounting/Audit wing in the DISCOM is in place. The Organogram of the DISCOM is as shown below:

Figure 2: Organogram of Energy Accounting wing in the DISCOM



As on June 2023, the Energy Accounting wing comprises of No. of employees as shown in the table below:

Table 5: Details of Energy Manager and Authorized Signatory of DISCOM

Designation	No. of Officers
Managing Director	Mr. Mahmood A Shah (KAS)
Chief Engineer	Er. Aaquib Sultana W Deva
CEO (Energy Manager)	Er. Shabir A Khan

3.3.3. Administrative hierarchy

KPDCL is having its office at Exhibition Ground Opposite High Court, Jehnagir Chowk, Srinagar – 190001 (J&K) and has 6 Circles. These Circles are further divided into Divisions, Sub-Divisions and Sections as shown in the below tables.

Table 6: Administrative hierarchy structure in KPDCL

Parameters	Total
Number of Circles	6
Number of Divisions	19
Number of Sub-Divisions	67

The Circles are further divided into Divisions, Sub-Divisions and Sections as shown in the table below:

Table 7: Administrative hierarchy in KPDCL upto section level

Circle	Division	Name of Sub-Divisions
		SHEIKH BAGH
		DALGATE
	DIV-I (BASANT BAGH)	NISHAT
		KHONMOH
Circle-1st		HABBA KADAL
Circle-1st	DIV-IV (KHANYAR)	KHANYAR
		RAINAWARI
		KHANKAHI MOULLA
		HAWAL
		ZAKURA
		BUDGAM
	BUDGAM	CHADURA
Circle-2nd		BEERWA
		CHARAR-I-SHAREEF

Circle	Division	Name of Sub-Divisions
		NARBAL
		RAJBAGH
		HAZURI BAGH
	DIV-II (RAJBAGH)	KARAN NAGAR
		CHANAPORA
		BAGHAT
		WATAL KADAL
		PATHER MASJID
	DIV-III (SHREEN BAGH)	NAWAKADAL
		MR GUNJ
		ZAINAKOTE
		ANANTNAG
	ANANTNAG	ACCHBAL
		DOORU
		BIJBEHARA
Circle-Bijbehara	BIJBEHARA	AISHMUQAM
		KULGAM
		D. H. PORA
	KULGAM	QAZIGUND
		RESHIPORA
	BANDIPORA	BANDIPORA
		KULOOSA
		GUREZ
	DIV SUMBAL	SUMBAL
Circle-Ganderbal		HAJIN
	CAMPERRAL	GANDERBAL
		MANIGAM
	GANDERBAL	TULMULLA
		KANGAN
		AWANTIPORA
	AWANTIPORA	PAMPORE
		TRAL
Circle-Pulwama		PULWAMA
Onoie-i uiwama	PULWAMA	NEWA
		RAJPORA
		SHOPIAN
	SHOPIAN	CHITRAGAM
		KELLAR
Circle-Sopore	DADAMIIII AU	BARAMULLAH-I
	BARAMULLAH	BARAMULLAH-II

Circle	Division	Name of Sub-Divisions
		MOHRA
		WAGOORA
		WATREGAM
	HANDWARA	HANDWARA
	HANDWAKA	LANGATE
	KUPWARA	KUPWARA
		TREHGAM
		TANGDHAR
		SOPORE-I
	SOPORE	SOPORE-II
		SOPORE-III
		PATTAN
	SPL-TANGMARG	TANGMARG

3.3.4. Consumer Details

Energy consumption with type of customer is given in the table:

Table 8: Customer Profile for FY 2023-24

Category	No. of Co	o. of Connections Connected Load Energy				Energy		Collected Amount in
	Nos	%	MW	%	MU	%	in Rs. Crore	Rs. Crore
Residential	963036	82.95%	1488.14	58.12%	3508.76	67.40%	1029.92	920.76
Agricultural	1462	0.13%	69.92	2.73%	81.86	1.57%	60.19	329.05
Commercial/ Industrial-LT	188423	16.23%	571.43	22.32%	668.62	12.84%	386.67	432.22
Commercial/ Industrial-HT	435	0.04%	177.62	6.94%	422.73	8.12%	222.64	216.22
Others	7652	0.66%	253.34	9.89%	523.59	10.06%	415.12	715.60
Total	1161008	100%	2560.45	100%	5205.55	100%	2114.55	2613.86

3.4. Electrical infrastructure and Assets Voltage wise

The following table provides the details of network infrastructure owned by KPDCL:

Table 9: Network Infrastructure details

Asset	Particulars	Unit	FY23-24
	66/ 11 kV Sub station	Nos	-
66 kV and above	66 kV Feeders	Nos	-
	66 kV Line	Ckt. km	-
	33/ 11 kV Sub station	Nos	320
33 kV	33 kV Feeders	Nos	180
	33 kV Line	Ckt. km	2366.69
	11 kV Feeders	Nos	1218
11 kV	11 kV Overhead Line	Ckt. km	20265
	11 kV Underground Line	Ckt. km	
LT	LT Line	Ckt. km	47689
PT	Power Transformer	Nos	
PI	Power Transformer Capacity	MVA	
DT	Distribution Transformer	Nos	40779
DT	Distribution Transformer Capacity	MVA	

The Input energy, consumption, transmission losses and key infrastructure details of the KPDCL for FY 2023-24 are summarized in table below:

Table 10: Input Energy & Infrastructure details

Parameters	FY 2023-24
Input Energy purchased (MU)	11124.05
Transmission loss (%)	2.54177%
Transmission loss (MU)	282.75
Energy sold outside the periphery (MU)	0

Parameters	FY 2023-24
Open access sale (MU)	0
EHT sale	0
Net input energy (received at DISCOM periphery or at distribution point)-(MU)	10841.30
Is 100% metering available at 66/33 kV (Select yes or no from list)	Yes
Is 100% metering available at 11 kV (Select yes or no from list)	Yes
% of metering available at DT	0%
% of metering available at consumer end	40%
No of feeders at 66kV voltage level	0
No of feeders at 33kV voltage level	180
No of feeders at 11kV voltage level	1218
No of LT feeders level	0
Line length (ckt. km) at 66kV voltage level	0
Line length (ckt. km) at 33kV voltage level	2366.69
Line length (ckt. km) at 11kV voltage level	20265
Line length (km) at LT level	47689
Length of Aerial Bunched Cables	6038
Length of Underground Cables	137.25
HT/LT ratio	0.4249

3.4.1. Metering Details

The status of meters installed in KPDCL as on 31-03-024 are given in the below tables:

Table 11: Voltage wise Meter Consumers

Parameters	66kV and above	33kV	11/22kV	LT
Number of conventional metered consumers	0	380	19654	130632
Number of consumers with 'smart' meters	0	0	0	254736
Number of consumers with 'smart prepaid' meters	0	0	0	54327
Number of consumers with 'AMR' meters		0	0	0
Number of consumers with 'non-smart prepaid' meters	0	0	0	0
Number of unmetered consumers	0	0	0	701279
Number of total consumers	0	380	19654	1140974

3.4.2. Distribution Transformer (DT) details

The details of distribution transformers in KPDCL as on 31-03-024 are given in the below tables:

Table 12: Numbers of Distribution Transformers

Parameters	66kV and above	33kV	11/22kV	LT
Number of conventionally metered Distribution Transformers	0	0	0	0
Number of DTs with communicable meters	0	0	0	0
Number of unmetered DTs		0	40779	0
Number of total Transformers	0	0	40779	0

3.4.3. Feeder details

The details of feeders in KPDCL as on 31-03-024 are given in the below tables:

Table 13: Voltage wise numbers of Feeders

Parameters	66kV and above	33kV	11/22kV	LT
Number of metered feeders	0	180	878	
Number of feeders with communicable meters	0	0	340	0
Number of unmetered feeders	0	0	0	0
Number of total feeders	0	180	1218	0

3.4.4. Distribution Line details

The details of distribution lines in KPDCL as on 31-03-2024 are given in the below tables:

Table 14: Length of Distribution Lines

Particulars	66kV and above	33kV	11/22kV	LT			
Line length (ct km)	0	2366.69	20265	47689			
Length of Aerial Bunched Cables	6038						
Length of Underground Cables		137	'.25				

3.4.5. Energy Flow details

Energy flow details for FY 2023-24 are given in the below table:

Table 15: Energy Flow details

Energy Input Details	Formula	UoM	Value
Input Energy Purchase (From Generation Source)	А	MU	11124.05
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	В	MU	10841.30
Total Energy billed (is the Net energy billed, adjusted for energy traded)	С	MU	5205.55
Transmission and Distribution (T&D) loss Details	D	MU	5635.75
	E = D/B x 100	%	51.98%

3.4.6. Pattern of energy distribution

Power Purchase:

During the analyzed period, KPDCL purchased a maximum energy of 1149.43 million units (MUs) in Feb. 2024, while the least energy of 689.35 MUs was purchased in Oct. 2023. This shows that the company's energy purchase varies considerably from month to month depicting the seasonal impact.

Purchase Units (MUs) 1400.00 1149.43 1120.13 1200.00 987.41 990.41 1000.00 874.09 1097.00 1040.59 999.53 715.78 800.00 766.51 600.00 693.83 689.35 400.00 200.00 0.00

Figure 3: Month wise Purchase Energy (MU) pattern

Energy Billed:

The energy billed by KPDCL showed a minor increasing trend from April 2023 to March 2024, with a slight bump in Jan & Feb 2024. This indicates that the company's energy consumption has increased gradually over the analyzed period.

The chart below shows KPDCL Input & Billed energy pattern from April 2023 to March 2024:

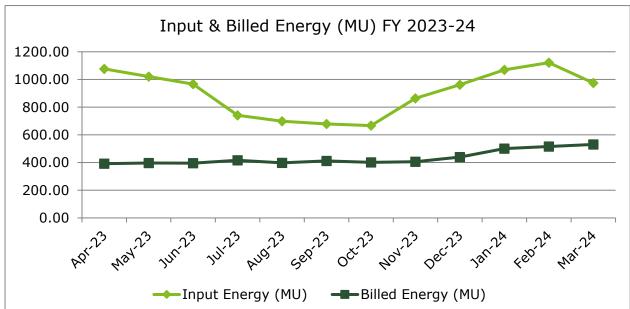
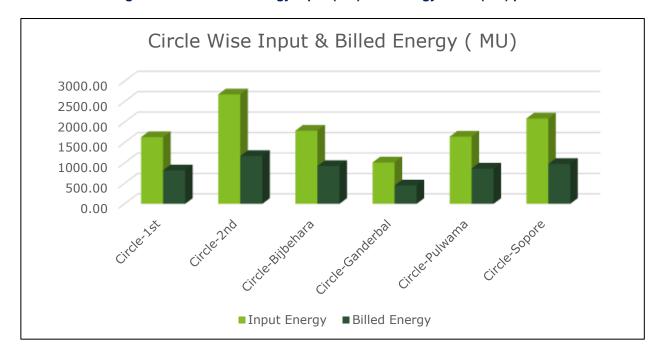


Figure 4: Monthly Energy Input and Energy billed pattern





Above graphs indicates that KPDCL energy purchase pattern shows considerable variation from month to month. While the maximum energy was purchased in Feb 2024, the least energy was purchased in Oct 2023. The energy billed shows a major increasing trend from April 2023 to March 2024, indicating a gradual increase in energy consumption. The chart shows that the energy purchase pattern fluctuates considerably i.e. it drops in summer and increases considerably in winter months, which may pose challenges for the company in managing its energy supply and demand especially in December, January and February Months.

The Month wise break up of input energy (MUs) parameter for all the circle is given below:

Table 16: Month wise Input Energy for FY 2023-24

Circle Name	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Circle-1st	160.13	155.30	148.28	112.18	108.87	107.20	102.78	127.21	141.00	157.71	162.88	147.43	1630.98
Circle-2nd	272.43	252.43	235.94	180.52	169.20	166.02	161.30	207.33	236.07	267.94	279.85	247.71	2676.75
Circle-Bijbehara	177.02	167.49	160.42	122.67	116.71	113.90	113.33	141.88	160.48	174.43	186.97	154.28	1789.60
Circle-Ganderbal	103.06	98.58	92.40	68.58	61.07	56.42	56.31	85.62	88.68	102.40	107.70	91.47	1012.28
Circle-Pulwama	160.15	146.68	135.75	107.75	105.47	103.13	102.22	132.49	149.76	168.74	177.61	153.86	1643.61
Circle-Sopore	203.76	201.11	194.03	149.64	136.71	131.87	130.98	169.32	185.68	198.00	206.32	180.67	2088.09
Total	1076.56	1021.59	966.82	741.34	698.03	678.54	666.91	863.85	961.68	1069.22	1121.33	975.42	10841.30

The Month wise break up of billed energy (MUs) parameter for all the circle is given below:

Table 17: Month wise Billed Energy for FY 2023-24

Circle Name	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Circle-1st	60.38	55.20	60.85	65.85	58.66	58.62	62.13	62.45	73.40	84.75	87.64	89.85	819.80
Circle-2nd	88.08	88.36	75.66	95.29	84.72	87.32	82.70	88.41	108.07	119.01	122.47	129.83	1169.90
Circle-Bijbehara	68.58	73.80	74.96	72.54	74.16	73.65	72.74	72.15	75.21	87.49	90.58	89.40	925.24
Circle-Ganderbal	32.96	35.44	38.72	36.60	36.05	36.04	34.99	33.98	35.90	42.35	42.04	44.90	449.97
Circle-Pulwama	66.20	66.72	67.01	69.23	69.61	78.92	71.96	69.37	68.27	75.72	79.34	82.86	865.21
Circle-Sopore	75.77	77.21	78.50	76.87	75.11	76.89	77.09	80.25	78.51	91.76	93.58	93.88	975.43
Total	391.97	396.73	395.70	416.38	398.32	411.43	401.61	406.60	439.36	501.07	515.65	530.72	5205.55

The voltage wise consumption pattern is given below:

Table 18: Voltage wise consumption pattern

Voltage Level	Consi	umers	Energy Consumption		
Voltage Level	No.	%Share	MUs	%Share	
33kV	380	0.03%	473.31	9.09%	
11kV	19654	1.69%	834.01	16.02%	
440V	1140974	98.27%	3898.24	74.89%	
Total	1161008	100%	5205.55	100%	

3.4.7. Salient features

KPDCL main objectives are to achieve efficiency gains and make necessary changes to make the company commercially viable, progressively self-sustainable, and less dependent on the government while balancing the interests of consumers with regards to quality of service and economical tariffs.

a) Vision

Customer Satisfaction through service excellence

b) Mission

- To provide reliable and quality power at competitive cost
- To attain national standards in reducing distribution losses

c) Core values

- Customer Satisfaction
- Participative Work Culture
- · Pride of belongingness
- Excellence
- Being ethically and socially responsive

3.5. Energy Conservation measures

Energy conservation is a critical issue in today's world, as the demand for energy continues to increase while the resources available to produce it are finite. The energy conservation measures that have already been taken and propose some measures for the future are explained below.

Energy Conservation Measures taken by the DISCOM:

Several energy conservation measures have already been implemented to reduce energy consumption and promote sustainable energy use. Some of these measures are:

> Energy-Efficient Lighting: The company promoted use of energy-efficient LED bulbs, which has reduced energy consumption and saved power purchase costs.

- > Energy Management Systems: The company has implemented energy management systems to monitor and control energy consumption, identify areas of energy waste, and optimize energy usage.
- > Renewable Energy: The company is promoting the use of renewable energy sources, such as solar roof top systems on domestic and government installations.
- > Energy Audits: Regular energy audits are conducted to identify energy waste and implement measures to reduce it
 - 1. 100% Smart Consumer Metering.
 - 2. 100% System Metering (DT & Feeder Meters)
 - 3. 100% Smart Metering of Govt. Consumers
 - 4. Replacement of LT overhead conductor with LT AB Cables
 - 5. Creation of HVDS Network
 - 6. Segregation/Bifurcation of Lengthy/Overloaded 11 KV Feeders
 - 7. Reduction of LT/HT Ratio

Proposed Energy Conservation Measures for the Future:

- 1. Installation of Smart Meters.
- 2. Identify unmetered consumers and installing meters
- 3. Installation of Automatic Power factor controller (Capacitor Bank) at newly constructed Power Substations.
- 4. System improvement & automation.
- 5. Replacing worm out /under sized conductors.
- 6. Redesigning Distribution infrastructure to improve HT:LT Ratio.
- 7. Preventive & Periodic maintenance of lines& transformers.
- 8. Renewable Energy: The Company has increased and is promoting the use of renewable energy sources, such as solar power, to reduce reliance on fossil fuels and reduce carbon emissions.

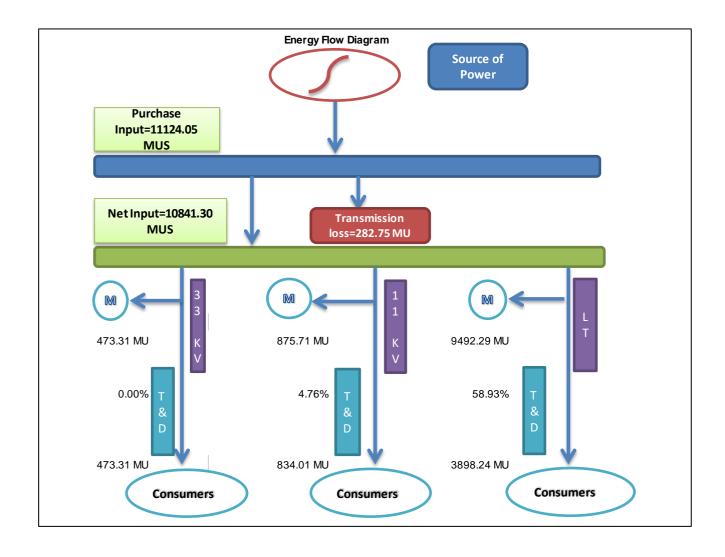
4. Energy flow analysis

4.1. Energy flow across Service Levels

The Energy at different voltage levels and the losses at different levels are shown in below table:

Table 19: Energy Flow at different Voltage level Losses for FY 2023-24

	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
I	LT	9492.29	3898.24	5594.05	58.93%
II	11 Kv	875.71	834.01	41.70	4.76%
Ш	33 kv	473.31	473.31	0.00	0.00%



4.2. Validation of metered data

- 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. >
 - The Category wise metered consumers and unmetered consumers are shown in below table. As per the consumers details most of the consumers are residential which is 82.95% and the energy share is 67.40% of total consumers and energy, commercial/industrial LT is 16.23% of total consumers and energy share is 12.84% of total billed energy, commercial/industrial HT is 0.04% of total consumers and energy share is 8.12% of total billed energy.

Consumer category	Metered	Unmetered	Total Consumer	% share of Consumer	Metered Energy	Unmetered Energy	Total Billed Energy (MU)	% Share energy
Residential	290046.0	672990.0	963036.0	82.95%	1083.54	2425.22	3508.76	67.40%
Agricultural	1343.0	119.0	1462.0	0.13%	72.20	9.65	81.86	1.57%
Commercial/Industrial-LT	161118.0	27305.0	188423.0	16.23%	485.77	182.85	668.62	12.84%
Commercial/Industrial-HT	432.0	3.0	435.0	0.04%	422.05	0.67	422.73	8.12%
Others	6790.0	862.0	7652.0	0.66%	500.05	23.54	523.59	10.06%
At Company	459729.0	701279.0	1161008.0	100%	2563.62	2641.94	5205.55	100%

Field visit of 33/11kv Substations and 11/0.433kV DTs was conducted. It was observed that:

- CTs and PTs are in working condition and meters are recording energy.
- 85 No substations have AMR facility and meters are sending data to Control Center through Meter Data Acquisition system without any manual intervention. 8 No sub stations were visited and AMR data acquisition was found working in these stations.
- At the time of field visit it was observed that capacitor banks are not installed in most of the 33/11kV substations.
- It was observed that average power factor was found in the range of 0.97 to 0.99.
- It was observed that hourly load parameters are recorded in the logbook apart from transformer parameters like Oil and winding Temperature.
- The DT meters have become nonfunctional due to damage to cables and it can be concluded that very very few DT meters are functional. No monitoring of DT meters is in place.
- It was observed that a good number of the consumers are billed on flat rate basis.

4.3. Validation of energy flow data and losses

The Energy at different voltage levels and the losses at different levels are show in below table long term energy, short term energy and renewable energy wise details are given below.

3	Voltage level	Particulars	MU
		Long-Term Conventional	
		Medium Conventional	
		Short Term Conventional	
		Banking	
		Long-Term Renewable energy	
i	66kV and above	Medium and Short-Term RE	
		Captive, open access input	
		Sale of surplus power	
		Quantum of inter-state transmission loss	
		Power procured from inter-state sources	0
		Power at state transmission boundary	0
		Long-Term Conventional	
		Medium Conventional	
		Short Term Conventional	
		Banking	
	0011/	Long-Term Renewable energy	10704.83
ii	33kV	Medium and Short-Term RE	
		Captive, open access input	
		Sale of surplus power	
		Quantum of intra-state transmission loss	0.00
		Power procured from intra-state sources	10704.83

iii		Input in DISCOM wires network	10704.83
iv	33 kV	Renewable Energy Procurement	
		Small capacity conventional/ biomass/ hydro plants Procurement	136.47
		Captive, open access input	
V	11 kV	Renewable Energy Procurement	
		Small capacity conventional/ biomass/ hydro plants	
		Procurement Sales Migration Input	
	LT	Renewable Energy Procurement	
vi	LI	Sales Migration Input	
vii		Energy Embedded within DISCOM wires network	136.47
viii		Total Energy Available/ Input	10,841.30
4	Voltage level	Energy Sales Particulars	
		DISCOM' consumers	3898.24
		Demand from open access, captive	
		Embedded generation used at LT level	
i	LT Level	Sale at LT level	3898.24
		Quantum of LT level losses	5594.05
		Energy Input at LT level	9492.29
		DISCOM' consumers	834.01
		Demand from open access, captive	
		Embedded generation at 11 kV level used	
ii	11 kV Level	Sales at 11 kV level	834.01
		Quantum of Losses at 11 kV	41.70
		Energy input at 11 kV level	875.71
		DISCOM' consumers	473.31
		Demand from open access, captive	
		Embedded generation at 33 kV or below level	136.47
iii	33 kV Level	Sales at 33 kV level	473.31
		Quantum of Losses at 33 kV	0.00
		Energy input at 33kV Level	473.31
		DISCOM' consumers	
		Demand from open access, captive	
		Cross border sale of energy	
iv	> 33 kV	Sale to other DISCOMs	
		Banking	
		Energy input at > 33kV Level	
		Sales at 66kV and above (EHV)	0
	<u> </u>	Total Energy Requirement	10841.30
		Total Energy Sales	5205.55

Loss and subsidy computation

4.4. Energy accounts analysis for previous year

Previous cycle of audit is energy accounting base on the notification No. 18/1/BEE/DISCOM/2021 from Bureau of Energy Efficiency dated 6th October 2021.

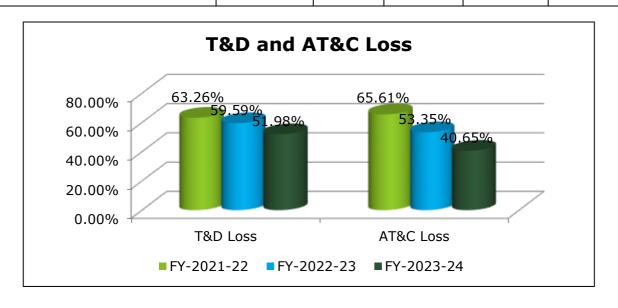
a) Summary of AT&C losses

As compared to the FY 2021-22, FY 2022-23 & FY 2023-24, it is observed that the T&D losses for the FY 2021-22 & FY 2022-23 is high as compared to the FY 2023-24, it is also observed that the collection in FY 2021-22 & FY 2022-23 is low as compared to assessment year, Hence the AT&C losses is less in FY 2021-22 & 2022-23 as compared to assessment year.

The AT&C losses over the annual AT&C losses for FY 2021-22, 2022-23 & 2023-24 are as shown below:

Annual Annual Annual **Units Energy Input Details Formula** FY 21-22 FY 22-23 FY 23-24 Input Energy Purchase (From Α MU 10,854.84 10,991.62 11,124.05 Generation Source) Net input energy (at DISCOM Periphery after adjusting the 10,466.13 10,661.88 В MU 10,841.30 transmission losses and energy traded) Total Energy billed (is the Net energy С 3,845.29 4,308.55 MU 5,205.55 billed, adjusted for energy traded) D ΜU 6,620.84 6,353.33 5,635.75 Transmission and Distribution (T&D) loss Details $E = D/B \times 100$ % 63.26% 59.59% 51.98% F 115.45% 123.61% Collection Efficiency % 93.61% $G = 1 - \{(1 - E) x\}$ AT&C Losses 65.61% 53.35% 40.65% % Min(F,100%)

Table 20: AT&C losses in FY 2021-22



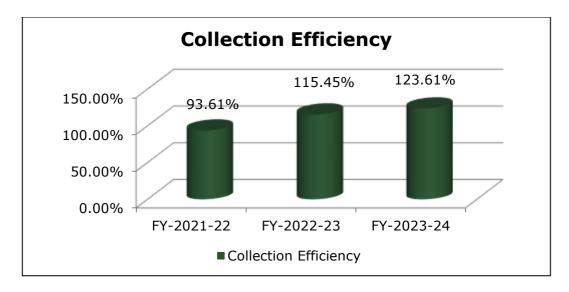


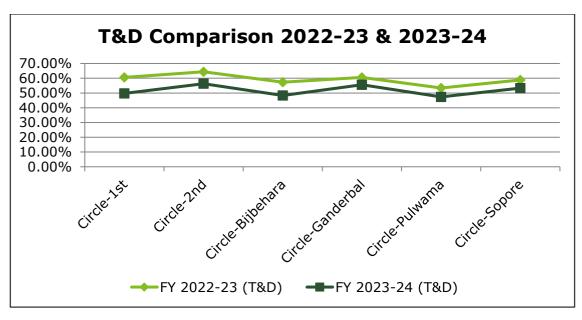
Table show the last three year's trend of T&D loss, Collection efficiency and AT&C loss. The collection efficiency FY 2023-24 is increase as compare to previous year. AT&C losses in FY 2023-24 have been decreases as comparison to last two financial years.

b) Circle wise T&D and AT&C Losses FY 2022-23 & 2023-24

The circle wise comparison (FY 2022-23 & 2023-24) transmission distributions losses and AT&C loss is given in following table:

Table 21: Circle wise T&D and AT&C losses in FY 2022-23 & 2023-24

Name of single	FY 2	022-23	FY 2023-24		
Name of circle	T&D loss (%)	AT&C loss (%)	T&D loss (%)	AT&C loss (%)	
Circle-1 st	60.54%	56.71%	49.74%	45.24%	
Circle-2 nd	64.38%	62.04%	56.29%	53.61%	
Circle-Bijbehara	57.31%	56.30%	48.30%	41.48%	
Circle-Ganderbal	60.61%	29.65%	55.55%	13.10%	
Circle-Pulwama	53.39%	48.02%	47.36%	28.72%	
Circle-Sopore	58.79%	50.76%	53.29%	40.85%	
At DISCOM level	59.59%	53.35%	51.98%	40.65%	



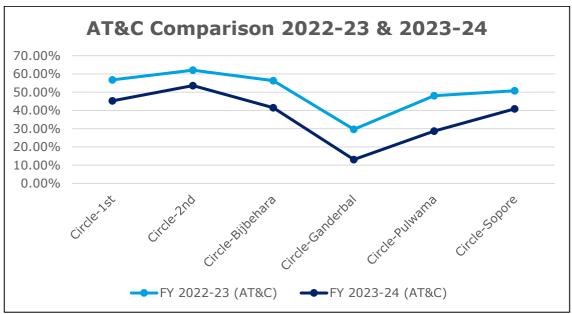


Figure 6: Circle wise T&D and AT&C Compression

4.5. Energy accounts analysis and performance in current year (based on quarterly data)

4.5.1. Month wise Purchase, Input energy and billed energy details

The Month wise Purchase, input energy & billed energy for FY 2023-24 of the Discom periphery is shown in below table.

Table 22: Month wise Purchase, input energy & billed energy for FY 2023-24

Months	Purchase Energy (MU)	Net Input Energy (MU)	Billed Energy (MU)
Apr-23	1120.13	1076.56	391.97
May-23	1040.59	1021.59	396.73
Jun-23	990.41	966.82	395.70

Months	Purchase Energy (MU)	Net Input Energy (MU)	Billed Energy (MU)	
Jul-23	766.51	741.34	416.38	
Aug-23	715.78	698.03	398.32	
Sep-23	693.83	678.54	411.43	
Oct-23	689.35	666.91	401.61	
Nov-23	874.09	863.85	406.60	
Dec-23	987.41	961.68	439.36	
Jan-24	1097.00	1069.22	501.07	
Feb-24	1149.43	1121.33	515.65	
Mar-24	999.53	975.42	530.72	
Total	11124.05	10841.30	5205.55	

Note: Details Sheet Attached in Annexure

4.5.2. Quarterly and annual AT&C losses

The Quarter wise and annual AT&C losses for FY 2023-24 is shown in below table.

Table 23: Energy Input and AT&C Losses for FY 2023-24

Energy Input Details	Formula Uol		Quarterly				Annual
			Q1	Q2	Q3	Q4	FY 23-24
Input Energy Purchase (From Generation Source)	А	MU	3202.64	2238.81	2541.33	3255.57	11124.05
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	В	MU	3119.71	2181.49	2509.56	3170.23	10841.30
Total Energy billed (is the Net energy billed, adjusted for energy traded)	С	MU	1191.57	1232.70	1217.21	1521.75	5205.55
Transmission and Distribution	D	ми	1928.14	948.79	1292.35	1648.48	5635.75
(T&D) loss Details	E = D/B x 100	%	61.81%	43.49%	51.50%	52.00%	51.98%
Collection Efficiency	F	%	74.65%	78.99%	89.06%	103.27%	123.61%
Aggregate Technical & Commercial Loss	G = 1-{(1-E) x Min(F,100%)	%	71.49%	55.37%	56.81%	50.43%	40.65%

As per above table it is observe that the Quarter-wise T&D & AT&C losses is shown in above table. The T&D and AT&C losses for FY 2023-24 are 51.98% and 40.65% at 123.61% collection efficiency.

4.5.3. Voltage wise AT&C losses

The voltage wise AT&C losses of KPDCL for FY 2023-24 are as shown in the below table:

Table 24: Voltage-wise AT&C Losses for FY 2023-24

S. No.	Particulars	Units	Values
1	Losses in 132 KV System and Connected Equipment		
1.a.	Total Energy delivered into 132 KV Distribution System from EHT SSs	MUs	10987.58
1.b.	Energy consumed by HT consumers at 132KV (Sales + Third Party)	MUs	
1.c.	Energy Delivered to lower voltage	MUs	10704.83
1.d.	Losses (132 kV System)	MUs	282.75
1.e.	% Losses (132 kV System)	%	2.57%
2	Losses in 33 KV System and Connected Equipment		
2.a.	Total Energy delivered into 33 KV Distribution System from EHT SSs	MUs	10841.30
2.b.	Energy consumed by HT consumers at 33KV (Sales + Third Party)	MUs	473.31
2.c.	Energy Delivered into 11 KV and LT System from 33/11 KV SSs	MUs	10367.99
2.d.	Losses (33 kV System)	MUs	0
2.e.	% Losses (33 kV System)	%	0.00%
3	Losses in 11 KV System and Connected Equipment		
3.a.	Total Energy delivered into 11 KV and LT Distribution System	MUs	10367.99
3.b.	Energy consumed by HT consumers at 11KV (Sales + Third Party)	MUs	834.01
3.c.	Total Output from 11kV to LT	MUs	9492.29
3.d.	Losses (11kV System)	MUs	41.70
3.e.	% Losses (11kV System)	%	0.40%
4	Losses in LT system and connected equipment		
4.a.	Energy delivered to LT system from 11/400 V DTRs	MUs	9492.29
4.b.	Energy sold at LT level	MUs	3898.24
4.c.	Losses (LT System)	MUs	5594.05
4.d.	% Losses (LT System)	%	58.93%
5	Total losses in the Distribution System		
5.a.	Total Input to the distribution system	MUs	10841.30
5.b.	Total Output from the Distribution System	MUs	5205.55
5.c.	Distribution System Losses	%	5635.75
5.d.	% Distribution System Losses	%	51.98%

4.5.4. Circle wise AT&C losses analysis

1. Circle wise connections & energy consumptions for FY 2023-24

The circle wise connections, load, input energy & Billed energy with percentage share in different circle is given below the "Circle-Sopore" circle having maximum numbers of consumers and "Circle-1st" circle having minimum numbers of consumers. "Circle-2nd" have maximum input energy as well as billed units and "Circle-Ganderbal" have minimum input energy as well as billed units as shown in table:

Table 25: Circle wise No. of consumers, Input energy and Sales in FY 2023-24

Circle	Total Number of connections		Total Connected Load		Input energy		Billed energy	
	Nos.	% Share	MW	% Share	MU	% Share	MU	% Share
Circle-1st	112456	9.69%	347.39	13.57%	1630.98	15.04%	819.80	15.75%
Circle-2nd	253540	21.84%	604.09	23.59%	2676.75	24.69%	1169.90	22.47%
Circle-Bijbehara	250871	21.61%	446.67	17.45%	1789.60	16.51%	925.24	17.77%
Circle-Ganderbal	114038	9.82%	232.36	9.07%	1012.28	9.34%	449.97	8.64%
Circle-Pulwama	160789	13.85%	437.22	17.08%	1643.61	15.16%	865.21	16.62%
Circle-Sopore	269314	23.20%	492.72	19.24%	2088.09	19.26%	975.43	18.74%
Total	1161008	100.00%	2560.45	100.00%	10841.30	100%	5205.55	100.00%

2. Circle-wise AT&C losses

The circle wise AT&C losses are shown in the table below:

Table 26: Circle wise T&D losses, Collection Efficiency and AT&C losses for FY 2023-24

			T&D	loss	Collection	AT& C
Name of Circle	Input energy (MU)	Billed energy	(MU)	(%)	Efficiency	loss (%)
Circle-1 st	1630.98	819.80	811.18	49.74%	108.95%	45.24%
Circle-2 nd	2676.75	1169.90	1506.84	56.29%	106.14%	53.61%
Circle-Bijbehara	1789.60	925.24	864.36	48.30%	113.20%	41.48%
Circle-Ganderbal	1012.28	449.97	562.31	55.55%	195.50%	13.10%
Circle-Pulwama	1643.61	865.21	778.40	47.36%	135.42%	28.72%
Circle-Sopore	2088.09	975.43	1112.66	53.29%	126.62%	40.85%
Total	10841.30	5205.55	5635.75	51.98%	123.61%	40.65%

Note: AT&C Losses calculation as per BEE proforma the calculation is as per actual Collection efficiency.

3. High loss Circles

Circle-2nd Circle had the highest T&D loss quantum of 1506.84 MUs and Circle-2nd had the highest T&D loss percentage of 56.29%. However, when T&D losses (MU) and T&D losses (%) are seen together then reducing T&D losses in Circle-2nd Circle must be prioritized in order to have overall reduction in AT&C losses of the DISCOM. Further, the circles with high loss that needs to be prioritized can be identified from the below chart:

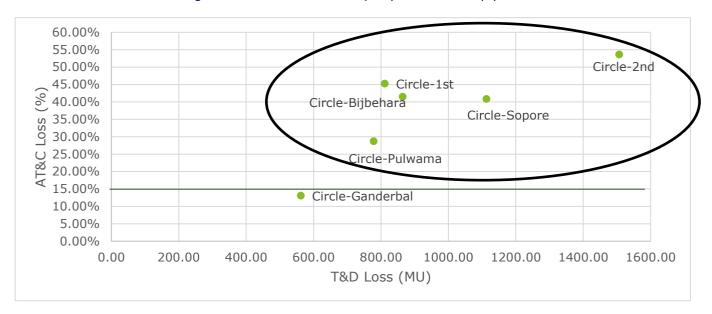


Figure 7: Circle wise T&D losses (MUs) Vs T&D losses (%)

Division wise AT&C losses analysis

4. Division-wise AT&C losses

The Division wise AT&C losses are shown in the table below:

Table 27: Division wise T&D losses, Collection Efficiency and AT&C losses for FY 2023-24

Name of Circle	Division	Consumer category	Total Number of Connections (Nos)	Total Connected Load (MW)	Input Energy (MU)	Total Billed Energy (MU)	T&D Loss (MU)	T&D Loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	AT& C Loss (%)
		Residential	31966	55		145.16			45.97	44.62	97.07%	
		Agricultural	8	0		0.16			0.10	0.21	204.79%]
Circle-1st	DIV-I (BASANT BAGH)	Commercial/Industrial-LT	14750	61	836.24	81.10	343.95	41.13%	46.83	48.56	103.69%	
	Di Ioli)	Commercial/Industrial-HT	80	43		160.07			78.49	76.50	97.47%]
		Others	567	41		105.81			84.10	111.94	133.11%	
Sub-total			47371	200.11	836.24	492.30	343.95	41.13%	255.49	281.84	110.31%	35.06%
		Residential	51902 79		227.93			72.17	71.65	99.28%		
		Agricultural	121	1		0.58			0.29	0.52	182.69%	
Circle-1st	DIV-IV (KHANYAR)	Commercial/Industrial-LT	12634	37	794.73	37.19	467.23	58.79%	21.69	20.81	95.95%	
	(IIIIII (IIII)	Commercial/Industrial-HT	8	2		3.96			2.17	1.53	70.63%	
		Others	420	29		57.84			48.06	59.30	123.40%	
Sub-total			65085	147.28	794.73	327.50	467.23	58.79%	144.37	153.82	106.54%	56.09%
		Residential	104756	146		369.72			103.79	74.01	71.31%	
		Agricultural	4	0		0.07			0.13	0.39	295.65%	
Circle-2nd	BUDGAM	Commercial/Industrial-LT	18218	57	1269.40	64.08	795.93	62.70%	37.06	36.79	99.25%	
		Commercial/Industrial-HT	32	7		15.81			8.21	5.89	71.71%	
	_	Others	398	12		23.81			17.69	26.73	151.05%	
Sub-total			123408	222.32	1269.40	473.48	795.93	62.70%	166.89	143.80	86.16%	67.86%

		Residential	49552	123		226.99			77.41	79.98	103.32%	
		Agricultural	11	0		0.02			0.00	0.00	102.60%]
Circle-2nd	DIV-II (RAJBAGH)	Commercial/Industrial-LT	18500	60	686.22	69.18	265.06	38.63%	40.62	41.33	101.76%	
	(KAJDAOII)	Commercial/Industrial-HT	62	17		24.95			16.85	14.38	85.34%	1
		Others	549	37		100.03			77.19	96.09	124.49%	
Sub-total			68674	237.64	686.22	421.17	265.06	38.63%	212.08	231.79	109.30%	32.92%
		Residential	47854	86		204.19			64.17	57.42	89.49%	
		Agricultural	16	0		0.49			0.34	6.87	2012.35%	
Circle-2nd	DIV-III (SHREEN BAGH)	Commercial/Industrial-LT	13286	35	721.12	38.48	445.86	61.83%	21.91	21.19	96.73%	
	<i>Bridity</i>	Commercial/Industrial-HT	15	2		2.72			2.14	5.52	257.89%	
		Others	287	20		29.38			23.69	54.79	231.29%	
Sub-total			61458	144.13	721.12	275.26	445.86	61.83%	112.25	145.81	129.89%	50.42%
		Residential	87190	122		307.00			89.60	86.53	96.57%	
		Agricultural	15	2		1.35			1.00	5.80	580.73%	1
Circle- Bijbehara	ANANTNAG	Commercial/Industrial-LT	18137	44	771.35	46.66	394.23	51.11%	26.78	35.71	133.34%	
Dijochara		Commercial/Industrial-HT	6	7		1.67			2.49	2.30	92.33%	
		Others	503	13		20.44			15.43	23.92	155.09%	
Sub-total			105851	188.22	771.35	377.12	394.23	51.11%	135.30	154.26	114.01%	44.26%
		Residential	48062	78		169.19			49.28	46.46	94.28%	
		Agricultural	224	5		8.23			5.12	20.74	404.97%	
Circle- Bijbehara	BIJBEHARA	Commercial/Industrial-LT	9262	25	385.84	27.81	169.66	43.97%	16.65	20.89	125.42%	
Dijoenara		Commercial/Industrial-HT	9	2		4.69			3.05	3.06	100.19%	
		Others	388	3		6.27			5.15	10.32	200.49%	
Sub-total			57945	113.73	385.84	216.19	169.66	43.97%	79.26	101.47	128.03%	28.27%
		Residential	74655	97		271.94			78.26	70.45	90.02%	
		Agricultural	5	0		0.88			0.51	1.23	243.39%	
Circle- Bijbehara	KULGAM	Commercial/Industrial-LT	12183	34	632.40	44.32	300.47	47.51%	25.58	32.49	127.04%	
Dijuciiaia		Commercial/Industrial-HT	24	5		7.34			4.30	4.34	100.97%	
		Others	208	9		7.46			5.51	7.85	142.37%	
Sub-total			87075	144.72	632.40	331.93	300.47	47.51%	114.15	116.36	101.93%	46.50%

		Residential	31616	70		85.80			25.68	23.50	91.50%	
		Agricultural	3	0		0.00			0.00	0.88	25902.54%	
Circle- Ganderbal	BANDIPORA	Commercial/Industrial-LT	3555	8	172.97	8.10	72.84	42.11%	4.79	5.26	109.77%	
Ganderbar		Commercial/Industrial-HT	6	3		1.29			1.34	0.85	63.49%	
		Others	343	6		4.93			3.90	4.67	119.83%	
Sub-total			35523	86.52	172.97	100.12	72.84	42.11%	35.71	35.16	98.45%	43.01%
		Residential	25127	27		94.25			26.90	18.62	69.22%	
		Agricultural	159	10		12.43			9.36	122.60	1309.41%	
Circle- Ganderbal	DIV SUMBAL	Commercial/Industrial-LT	3286	10	263.65	11.50	131.64	49.93%	6.48	4.59	70.85%	
Ganderbar		Commercial/Industrial-HT	4	1		0.52			0.36	0.45	124.86%	
		Others	213	6		13.31			11.12	67.68	608.42%	
Sub-total			28789	53.89	263.65	132.01	131.64	49.93%	54.23	213.94	394.52%	-97.54%
		Residential	42294	51		156.78			44.54	35.72	80.20%	
		Agricultural	29	2		2.14			1.58	5.62	355.88%	
Circle- Ganderbal	GANDERBAL	Commercial/Industrial-LT	6887	21	575.66	33.51	357.83	62.16%	19.06	23.61	123.87%	
Ganderbar		Commercial/Industrial-HT	14	6		7.26			5.27	4.79	90.91%	
		Others	502	11		18.15			15.31	24.66	161.08%	
Sub-total			49726	91.94	575.66	217.84	357.83	62.16%	85.76	94.40	110.08%	58.35%
		Residential	47134	57		183.78			53.33	52.18	97.83%	
		Agricultural	236	23		29.04			18.00	66.77	370.90%	
Circle- Pulwama	AWANTIPORA	Commercial/Industrial-LT	8825	27	722.26	40.97	323.09	44.73%	22.82	31.55	138.24%	
1 urwama		Commercial/Industrial-HT	21	38		118.47			55.97	53.67	95.88%	
		Others	270	12		26.91			20.41	41.69	204.27%	
Sub-total			56486	157.85	722.26	399.17	323.09	44.73%	170.54	245.85	144.16%	20.32%
		Residential	42576	88		168.79			50.69	50.65	99.91%	
		Agricultural	231	9		8.93			6.11	24.57	402.39%	
Circle- Pulwama	PULWAMA	Commercial/Industrial-LT	9406	40	501.40	41.27	224.47	44.77%	23.00	27.42	119.19%	
1 ui wuiiia		Commercial/Industrial-HT	112	33		49.93			27.70	28.51	102.94%	
		Others	327	5		8.01			6.99	19.46	278.52%	
Sub-total			52652	174.77	501.40	276.93	224.47	44.77%	114.49	150.61	131.55%	27.34%

		Residential	45028	76		158.02			45.36	44.36	97.79%	
		Agricultural	233	3		0.84			0.53	6.58	1252.25%	
Circle- Pulwama	SHOPIAN	Commercial/Industrial-LT	5912	18	419.95	17.62	230.84	54.97%	10.73	10.34	96.36%	
1 urwama		Commercial/Industrial-HT	9	3		8.33			3.96	4.16	104.90%	
		Others	469	5		4.31			3.95	11.46	290.08%	
Sub-total			51651	104.59	419.95	189.12	230.84	54.97%	64.54	76.90	119.16%	46.34%
		Residential	62987	134		221.04			63.88	53.58	83.87%	
		Agricultural	36	8		13.44			10.69	37.42	350.03%	
Circle- Sopore	BARAMULLAH	Commercial/Industrial-LT	10205	24	570.10	26.61	257.86	45.23%	15.03	13.59	90.44%	
Бороге		Commercial/Industrial-HT	4	1		1.95			1.05	1.03	97.96%	
		Others	1030	21		49.20			39.41	64.94	164.78%	
Sub-total			74262	188.95	570.10	312.24	257.86	45.23%	130.06	170.56	131.14%	28.18%
		Residential	37092	32		114.04			29.94	22.46	75.01%	
		Agricultural	30	2		0.28			1.40	7.33	522.77%	
Circle- Sopore	HANDWARA	Commercial/Industrial-LT	4125	11	304.14	15.56	169.83	55.84%	8.82	12.07	136.92%	
Бороге		Commercial/Industrial-HT	1	0		0.46			0.26	0.26	100.00%	
		Others	187	3		3.97			3.22	3.84	119.18%	
Sub-total			41435	47.53	304.14	134.31	169.83	55.84%	43.64	45.96	105.30%	53.50%
		Residential	50509	34		132.79			32.73	28.66	87.57%	
		Agricultural	0	0		0.00			0.00	0.00	0.00%	
Circle- Sopore	KUPWARA	Commercial/Industrial-LT	5179	16	358.52	24.42	185.66	51.79%	14.52	24.79	170.74%	
Бороге		Commercial/Industrial-HT	1	0		0.06			0.13	0.00	0.00%	
		Others	330	6		15.59			11.18	11.73	104.93%	
Sub-total			56019	55.87	358.52	172.86	185.66	51.79%	58.55	65.18	111.32%	46.33%
		Residential	59758	80		201.83			57.18	44.06	77.05%	
		Agricultural	73	4		2.93			5.03	21.52	428.01%	
Circle- Sopore	SOPORE	Commercial/Industrial-LT	11009	29	591.43	25.69	336.66	56.92%	15.34	12.56	81.90%	
Бороге		Commercial/Industrial-HT	9	2		2.76			1.88	1.73	91.82%	
		Others	366	8		21.54			17.50	58.52	334.50%	
Sub-total			71215	123.66	591.43	254.76	336.66	56.92%	96.93	138.39	142.77%	38.50%

		Residential	22978	53		69.52			19.02	15.85	83.30%	
G: 1		Agricultural	28	0		0.04			0.01	0.00	77.11%	
Circle- Sopore	SPL-TANGMARG	Commercial/Industrial-LT	3064	14	263.91	14.55	162.65	61.63%	8.97	8.69	96.88%	
Sopore		Commercial/Industrial-HT	18	5		10.48			6.99	7.23	103.39%	
		Others	295	5		6.66			5.32	16.00	300.68%	
Sub-total			26383	76.71	263.91	101.26	162.65	61.63%	40.31	47.76	118.50%	54.53%
Total		Residential	963036	1488		3508.76			1029.92	920.76	89.40%	
		Agricultural	1462	70		81.86			60.19	329.05	546.65%	
		Commercial/Industrial-LT	188423	571	10841.30	668.62	5635.75	51.98%	386.67	432.22	111.78%	
		Commercial/Industrial-HT	435	178		422.73			222.64	216.22	97.12%	
		Others	7652	253		523.59			415.12	715.60	172.38%	
At company level			1161008.00	2560.45	10841.30	5205.55	5635.75	51.98%	2114.55	2613.86	123.61%	40.65%

5. High loss divisions

Operations & Maintenance Division Budgam has the highest T&D loss quantum of 795.93 MU and "Budgam" Division had the highest AT&C loss percentage of 67.86%. Further, the circles with high loss that needs to be prioritized can be identified from the below chart:

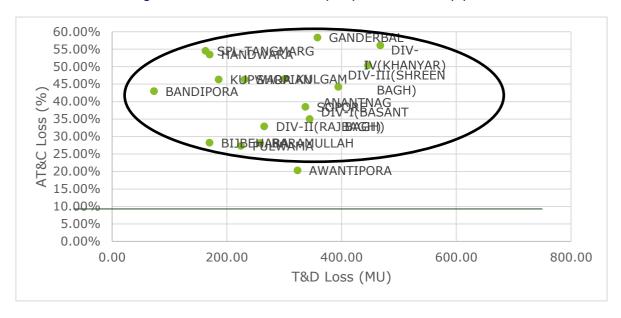


Figure 8: Division wise T&D losses (MUs) Vs AT&C losses (%)

The list of top 10 Divisions with higher AT&C losses (%) & T&D losses (%) identified from the above chart are tabulated below:

S.No. Division **T&D loss (%)** AT&C loss (%) 1 **BUDGAM** 62.70% 67.86% 2 **GANDERBAL** 62.16% 58.35% 3 DIV-III(SHREEN BAGH) 61.83% 50.42% 4 SPL-TANGMARG 61.63% 54.53% 5 DIV-IV(KHANYAR) 58.79% 56.09% 6 SOPORE 56.92% 38.50% 7 **HANDWARA** 55.84% 53.50% 8 **SHOPIAN** 54.97% 46.34% **KUPWARA** 9 51.79% 46.33% 10 **ANANTNAG** 44.26% 51.11%

Table 28: Top 10 Divisions with higher AT&C losses (%) & T&D losses (%)

Further, it was observed that the Collection Efficiency is more than 100% across all the Divisions as shown below:



Figure 9: Division wise Collection efficiency (%)

4.5.5. Feeder wise T&D losses analysis

1. Feeder wise T&D losses

Sample attched

Feeder Name	Type of Feeder	Type of feeder meter	Received at Feeder (MU)	Feeder Consumption (MU)	T&D losses
F1 NAI SARAK	Mixed	AMR	13.91	4.68	9.91
F5 EXCHANGE	Mixed	AMR	6.42	5.44	1.29
BASANT BAGH FEEDER-I (ganpathayar)	Mixed	AMR	12.07	4.57	8.08
F3 MAISUMA	Mixed	AMR	5.44	2.40	3.30
BRANE FD1	Mixed	AMR	12.04	4.04	8.58
F-2 Tulip Garden/Karpora	Mixed	AMR	3.43	1.96	1.64
BRANE 3	Mixed	AMR	18.96	6.53	13.34
BUCHWARA FD1 (NEHRU PARK)	Mixed	AMR	9.78	7.11	3.14
BUCHWARA FD2 (DALGATE)	Mixed	AMR	21.04	8.07	13.98
CENTURE FD1 Zabarwan Park	Mixed	AMR	1.25	1.02	0.29
CENTURE FD2 Raj Bhawan	Mixed	AMR	2.18	3.36	0.00
CENTURE FD3 Centaur Hotel	Mixed	AMR	0.66	0.68	0.02
K.K.Mohalla F1	Mixed	AMR	12.06	4.03	8.60
Nawpora F3	Mixed	AMR	19.40	6.13	14.21
Bohri Kadal F4 part-b	Mixed	AMR	7.03	2.61	4.76
Bohri Kadal F4 part-a	Mixed	AMR	7.62	2.73	5.25
Gosia Hospital F5 part-b	Mixed	AMR	0.09	0.09	0.01
Gosia Hospital F5 part-a	Mixed	AMR	1.17	1.17	0.06
Theed F1	Mixed	AMR	16.16	3.64	13.30
Harwan F2	Mixed	AMR	17.13	6.54	11.41
Dara F3	Mixed	AMR	18.32	4.72	14.48

	Type of	Type of	Received at	Feeder	T&D
Feeder Name	Feeder	feeder meter	Feeder (MU)	Consumption (MU)	losses
BODAGEER, Kawadara : F2	Mixed	AMR	16.97	4.49	13.30
Nawakadal: F3	Mixed	AMR	12.98	4.51	9.10
Rajouri Kadal: F4, JAMIA MASJID part-c	Mixed	AMR	1.24	0.39	0.91
Rajouri Kadal: F4, JAMIA MASJID part-b	Mixed	AMR	4.67	1.81	3.08
Rajouri Kadal: F4, JAMIA MASJID part-a	Mixed	AMR	9.65	2.67	7.44
Naqash Pora, Satho Barbar Shah: F1	Mixed	AMR	13.05	4.40	9.29
Babademb, Fateh Kadal: F2	Mixed	AMR	13.36	4.97	9.04
Bishamber Nagar & Khayam Chowk : F3	Mixed	AMR	12.41	8.04	4.97
Dy. CM's residence, Arthocare Hospital & STP (Sewrage Tretment Plane): F4 part-b	Mixed	AMR	5.41	5.29	0.39
Dy. CM's residence, Arthocare Hospital & STP (Sewrage Tretment Plane): F4 part-a	Mixed	AMR	0.38	0.18	0.22
Rajouri Kadal-F2 part-b	Mixed	AMR	2.52	0.86	1.77
Rajouri Kadal-F2 part-a	Mixed	AMR	1.98	0.96	1.12
Zadibal-F3 part-b	Mixed	AMR	2.23	0.66	1.68
Zadibal-F3 part-a	Mixed	AMR	14.91	3.83	11.80
NARWARA, Firdous Coloney-F4	Mixed	AMR	15.36	5.52	10.58
Mughal Masjid-F5 part-b	Mixed	AMR	10.30	2.63	8.17
Mughal Masjid-F5 part-a	Mixed	AMR	2.11	0.55	1.66
Jamia Masjid, ICSC-F6 part-b	Mixed	Metered	0.40	0.34	0.08
Jamia Masjid, ICSC-F6 part-a	Mixed	Metered	0.29	0.28	0.02
Bachi Darwaza, MAKHDOOM SAHIB-F1 part-b	Mixed	AMR	1.69	0.51	1.26
Bachi Darwaza, MAKHDOOM SAHIB-F1 part-a	Mixed	AMR	8.85	2.76	6.51
MA road, regal chowk: F2	Mixed	AMR	7.02	6.75	0.61
MLA hostel, deputy CM, Bankat Hall: F1	Mixed	AMR	4.10	4.14	0.16
Bsnl exchange,Nishat F1	Mixed	Metered	9.46	2.74	7.17
Nishat F2	Mixed	AMR	11.03	3.09	8.47
Foreshore Road Nishat F3 part-b	Mixed	AMR	16.63	6.51	10.92
Foreshore Road Nishat F3 part-a	Mixed	AMR	1.85	0.91	1.02
Pathan Bagh F4	Mixed	AMR	10.50	4.32	6.69
Filtration Plant F5	Mixed	AMR	0.60	0.54	0.09
SKUAST F1	Mixed	AMR	2.55	2.55	0.13
Local Shalimar, TAILBAL F2	Mixed	AMR	21.40	6.99	15.44
Arbal F3	Mixed	Metered	22.17	8.37	14.87
CD Hospital F1	Mixed	AMR	2.91	3.67	0.00
Lal Chowk F2	Mixed	AMR	16.23	10.98	6.04
JK Bank F3	Mixed	AMR	1.46	1.46	0.07
CM Residence F4 part-b	Mixed	AMR	5.27	5.11	0.41
CM Residence F4 part-a	Mixed	AMR	5.06	3.77	1.53
Dalgate part-b	Mixed	Metered	17.35	6.30	11.89
Dalgate part-a	Mixed	Metered	0.44	0.18	0.29
Radio Kashmir	Mixed	AMR	7.25	6.62	0.98

Feeder Name	Type of Feeder	Type of feeder meter	Received at Feeder (MU)	Feeder Consumption (MU)	T&D losses
BADAMI BAGH F01 (pandrethan)	Mixed	AMR	3.95	3.67	0.47
BADAMI BAGH F2 (PHE)	Mixed	Metered	0.16	0.15	0.02
BADAMI BAGH F3 BUND	Mixed	AMR	0.21	0.13	0.08
BADAMI BAGH F04 (pantha Chowk)	Mixed	AMR	3.93	2.41	1.70
F3 AMDAKADAL	Mixed	AMR	12.73	2.80	10.54
Baghwanpora, F2	Mixed	AMR	14.67	6.17	9.21
F1 BOTAKADAL	Mixed	AMR	12.90	4.00	9.52
Zafran Colony F1	Mixed	AMR	6.42	4.03	2.70
Befina F2 part-b	Mixed	AMR	3.34	1.28	2.22
Befina part-a	Mixed	AMR	2.23	0.97	1.36
Balhama F3	Mixed	AMR	7.30	2.73	4.92
CRPF + IOC F4	Mixed	AMR	1.36	1.35	0.07
Saida Kadal, F1	Mixed	AMR	15.05	4.12	11.65
Dalkawpora, F2	Mixed	AMR	15.82	4.52	12.06
Central Jail, F3 part-b	Mixed	AMR	0.65	0.55	0.14
Central Jail, F3 part-a	Mixed	AMR	5.87	5.13	1.02
DAL LAKE F5	Mixed	AMR	18.84	4.61	15.14
Khunmoh Town: F2	Mixed	AMR	15.75	5.65	10.86
JK Armed Police: F3	Mixed	AMR	2.53	2.49	0.16
Upper Khunmoh , Chak Sangri F1	Mixed	AMR	12.29	5.88	7.00
F1: Jan Mohalla, Main Lalbazar, Botshah Mohallah	Mixed	AMR	7.81	6.18	2.00
F2: Zari Mohalla and Sikh Bagh	Mixed	AMR	10.06	4.03	6.51
F3: Bota Kadal	Mixed	AMR	8.52	4.44	4.48
Samarbugh F1	Mixed	AMR	6.58	2.77	4.13
Shalina F2	Mixed	AMR	5.43	8.67	0.00
Indra Nagar, F1	Mixed	AMR	11.49	9.61	2.43
Batwara F2	Mixed	AMR	5.96	2.52	3.73
Shivpora F3	Mixed	AMR	10.86	6.92	4.46
Sonwar F4	Mixed	AMR	11.01	6.73	4.81
IE PHASE-I FOODPARK F1	Mixed	AMR	7.82	6.75	1.44
IE PHASE-II FOODPARK F2	Mixed	AMR	2.45	2.02	0.54
Pandach	Mixed	Metered	14.90	5.83	9.79
Khalmulla	Mixed	Metered	8.14	3.57	4.96
Industrial Estate F1	Mixed	AMR	3.23	3.16	0.23
Nowshera F2	Mixed	AMR	7.59	3.73	4.23
Alamgari Bazar F3	Mixed	AMR	14.89	4.90	10.70
Bota Kadal, F4	Mixed	AMR	10.60	4.87	6.24
Hari Parbat Exchange F6	Mixed	AMR	1.23	1.16	0.12
Telbal, F3 part-b	Mixed	AMR	3.32	0.86	2.63
Telbal, F3 part-a	Mixed	AMR	4.40	1.08	3.54
Dhanihama F1	Mixed	AMR	12.09	3.83	8.85
Burzehama,Gassu F4	Mixed	AMR	13.97	4.85	9.78

Feeder Name	Type of Feeder	Type of feeder meter	Received at Feeder (MU)	Feeder Consumption (MU)	T&D losses
khimber,chaterhama F2 part-b	Mixed	AMR	17.26	4.79	13.31
khimber,chaterhama part-a	Mixed	AMR	0.35	0.13	0.24
Ellahibagh, F1	Mixed	AMR	0.00	0.04	0.00
Owanthabhawan F2 part-b	Mixed	AMR	2.41	1.29	1.24
Owanthabhawan F2 part-a	Mixed	AMR	10.99	3.92	7.60
Umar Colony B	Mixed	AMR	17.94	7.89	10.91

4.5.6. Identify overloaded segments/ infrastructure

KPDCL has identified Overloaded segments for substations at 33/11kV and 11/0.433kV levels and chalked out a plan for system improvement which includes new creations. Besides, the health of transmission and distribution lines is also being improved by way of augmentation of line conductor, bifurcation of feeders and laying of cables of appropriate size. Smart metering is also being under taken specially to cover non metered areas and the step will further reduce load on the power system. The complete action plan forms part of the audit report. The works are proposed to be undertaken under Revamped Distribution Sector Scheme (RDSS) and are targeted for completion by 2025.

4.6. Subsidy computation and analysis (based on quarterly data)

The quarter wise subsidy details during FY 2023-24 are shown in the table below:

Annexure -1: Proforms for Quarterly Consu mer Category-wise Subsidy Billed/Received/Due for period April 2023 to December 2023 . 67299 95303 Patceters 2.18 2419122425 2.59 1112.50 434.00 BJE-37 distriction. 1.71 12.9 LTT180 20016402 12481375 2.3W 29,65 96.11 110 dissentance 243035.802 362)/1200 26237299 July Trans 3.66 101.00 1305687 1.55 1.55 0.46 52523043 53011675 10.00 5.10 2484606.070 264241922.1 81389 34134 11051216 B138800.813 1012403.16 200 127 34393313.3 130 18.50 0.31 1.33 24170 90264118 47946233-68 0.33 4.51 B1458 11.00 0.00 433802 43580 43380 1837306353 165.23 913.68 vercial/Industrial-LT , Commercial/Industrial-HT and Others are sufferent. So mentioned separately in above proforma 1. The Subsidy rates are as per New Terriff order in vogue.

2. Subsidy rates are as per New Terriff order in vogue.

The Account for Subsidy has been evaluated from Approved Tarriff for JPOCL and KPOCL PY2522-23 (Page No viii to siii) and full Cost Terriff (Page No 110 to Page No 121) defined in the Tarriff Order 2022-

Table 29: Quarter wise - Division wise subsidy details

Colef Engineer (Distribution) KPOCL Energy Manager (KPOCL)

Security Congres (Superior to and submitted consume congres)		Demonstrate			and these			Salestine Stine Sweet			Applicable rate of Suresity on residual by States good.		Substity from Print Street Street		Schools Schools School	Superior Sup	Salantes Substitute State
	Period	the meteral?	Total	Personal -	Monteman P	Tetal	Meteoric Liquid of mil-Et	Secretary (Total	Patricul Sumpres	Minimum Storage T	Served Sewar	the particular freezy	Tree	Photo Back (No coparison (Atl. 52)	100.131 100.131	State State State State
			2 3		(in entry		(schille)			C St A	OWNE .	(0-Re-11-			01084-013	(0.66.(0.)	(N/Be D.)
4				- 1		41018	1		Pates			18-616	11/60	resident	18	338	1916h4
hydrical	200046	672900	913134	340452381	710160713	1040433131	340452331	710100750.9	1090633133	1.09	3.09	195.10	231.5A	355.68			
Agricultural	130	339	1467	2570990	3330310	3900904	2570610-471	3330710.336	7900903.613	2.87	2.97	31.76	2.99	1.75			
Commercial/Industrial-LT commercial)	150003	28650	177303	99429990	12735745	157166733	99435990.14	12236244.07	137106739.1	2.63	2.03	26.16	. 15.10	41.31			
Convincial/Industrial LT Seduction	10425	615	11040	30172413	81037	70233449	30172412.56	61076-77626	20233449.11	3.50	3.50	7.06	0.02	7.08			
Commercial/Industrial-HT (HT Industry)	. 311		293	83019045	. 0	ERESONS	\$30500ns.74		E3059044.74	3.52	3.52	29.22	0.00	29.21			
Commercial/Industrial HT (Power Intension)	- 3		3	130400	0	120000	120900	- 4	120900	4.17	4.17	8.12	0.00	-		_	
Commercial/Industrial HT (Bulls)	136	3	130	2227+603	187190	22436863	22274693.87	161190	22459481.07	3.0	111	2.82	0.04	7.85	_	-	
Others (State/Central)	6030	393	0043	125100965	5823746	138614751	129300964.9	1023716.014	128924710.9	LEE	1.01	12.64	0.39	-	_	-	-
Others (Street Algres)	155	10	244	414,1686	1925887	049304	4563887.85	1923696.459	6889564.488	5.17	6.37	0.17	0.07	0.76		_	
Othery (LT PHE)	327	110	. 100	9425403	3343163	11507646	0425483.035	J162162.4CI	11367843.65	0.37	0.37	0.33	0.00	0.43	-		
Others (HT PHE)	254	47	701	10090461	1727046	10426311	10000001.4	1777949.279	18420310.68	0.03	0.00	0.00	0.01	0.49	_	-	_
Others (EV)	1	16	1	1000.50	0	168410	166630	10	9884.67	0.00	0.00	2.00	0.00	1.00			_
Others (Frection)	- 3	0	2	1053410	- 0	1003430	1053420	1	1053430	3.50	3.00	6.37	0.00	3.37	-	-	_
Fotol	489729	761279	1101000	728310083	821130367	1347641388	-	W11190907.3	1517441300	2.50	2.00	100.14	248.34	638.54			_
Note: 1. The Subsidy rate for sub. 2. Subsidy rates are es per the Account for Subsidy ha	is been e	rvaluated fr	VOIGLIEF.											(ed in the 1		2023-

4.7. Trend analysis and identification of key exceptions

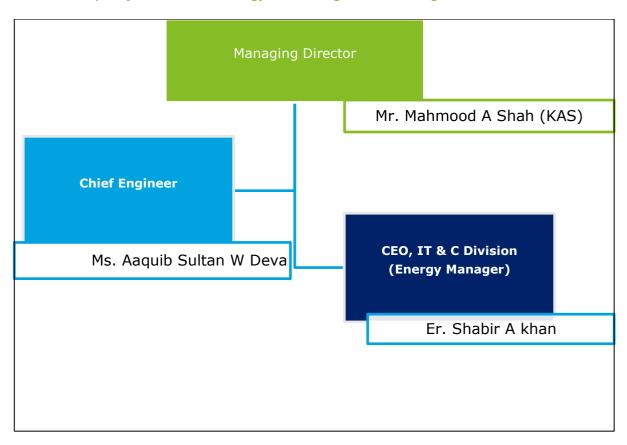
The performance of Discom in FY 2021-22 Vs FY 2022-23 Vs FY 2023-24 comparison are shown below table, it was observed that the AT&C for the FY 2021-22 is 65.61%, AT&C for FY 2022-23 is 53.35% and AT&C for FY 2023-24 is 40.65%, which is lower than the previous year. The collection in FY 2021-22 is 93.61%, FY 2022-23 is 115.45% and the collection in FY 2023-24 is 123.61%, which is higher as compared to FY 2022-23. The T&D for the FY 2021-22 is 63.26%, T&D for FY 2022-23 is 59.59% and T&D for FY 2023-24 is 51.987%, which is lower side as compared to last two years. The AT&C for the FY 2023-24 is 40.65% at collection 123.61%.

Table 30: Summary of AT&C & T& D Trends or Last three years

Energy Input Details	UoM	FY 2021-22	FY 2022-23	FY 2023-24
Input Energy Purchase (From Generation Source)*	Million kWh	10854.84	10991.62	11124.05
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kWh	10466.13	10661.88	10841.30
Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kWh	3845.29	4308.55	5205.55
Transmission and Distribution (T&D) loss Details	Million kWh	6620.84	6353.33	5635.75
Transmission and Bistribution (Tab) loss Betalis	%	63.26%	59.59%	51.98%
Collection Efficiency	%	93.61%	115.45%	123.61%
Aggregate Technical & Commercial Loss	%	65.61%	53.35%	40.65%

5. Energy Audit findings

5.1. Review of capacity of DISCOM's energy accounting and audit wing



Designation	No. of Officers
Managing Director	Mr. Mahmood A Shah (KAS)
Chief Engineer	Ms. Aaquib Sultan W Deva
Energy Manager	Er. Shabir A khan

5.2. Critical Analysis

KPDCL, headquartered at Jehangir Chowk, Srinagar, functions with 06 Circles, 19 Divisions and 67 Sub-divisions. KPDCL has a unique mix of consumers i.e. on one hand it caters to industrial consumers alongside urban areas and on the other it caters to agricultural consumers, scattered tribal & forest area consumers

• The Input Energy purchase, Net Input energy at DISCOM Periphery and Energy billed for the customer is 11124.05 MU, 10841.30 MU and 5205.55 MU, the monthly consumption per customer stands at 373.64 KWH/Month. KPDCL caters to area spread in 6 circles, 19 Division.

- Verified transmission losses, distribution (T&D) losses, collection efficiency & aggregate technical & commercial losses of KPDCL for FY 2023-2024, i.e., 1st April'2023 to 31st March'2024 is 2.54%, 51.98%, 123.61% & 40.65 % respectively.
- The Purchased energy by KPDCL for the consumers is 11124.5 MU, the monthly consumption per Consumers stands at 373.64 KWH/Month
- KPDCL served 11.61 Lakh Consumers with connected load of 2560.45 MW in FY-2023-24. The energy sales during the Period were recorded at 5205.55 MU.
- KPDCL has 100 % metering available at 33/11 kV system. However, there is almost 39.60 % metering at consumer end and 0.0% metering available at DT.
- 119 Nos. Agriculture consumers are still unmetered which need to be provided meter as per government guidelines.
- "Circle-2nd" Circle had the highest T&D loss quantum of 1506.84 MUs and "Circle-2nd" Circle had the highest T&D loss percentage of 56.29%. "Circle-Pulwama" Circle had the lowest T&D loss percentage of 47.36%.
- Transmission loss is 2.54 % as per the divisional database 2023-2024.
- The document verification and reports submitted by the KPDCL provided the insights to the energy consumption pattern. It can be seen that 64.90% of its energy is consumed by Residential then followed by Commercial/Industrial-HT Consumer.
- KPDCL has provided the Feeder wise input energy, Feeder wise billed energy furnished after completion of mapping at each feeder.
- KPDCL has provided details of received source data for FY 2023-24 with the monthly breakup.
- At the time of field visit it was found that at maximum substation the average power factor is above >0.95, which is satisfactory.
- Capacitor banks are installed in only some substations.

5.2.1. Substation Loss Analysis

KPDCL 33/11KV substation loss analysis monthly generate report

Table 31: Substation loss analysis

Name of Sub Station	Sub Division-II, Karan Nagar	Sub Division-II, Karan Nagar	Sub Division 1-ST, Rajbagh	Sub Division 1-ST, Rajbagh
Name of 33/11 KV Substation	Safakadal	S H Pora	Danderkah	Peerbagh
Month	Mar-24	Mar-24	Mar-24	Mar-24
Total Unit Received on 33KV line	8054200	2749600	37.134	52.404
Total Unit Dispatched on 11KV Feeders	8030000	2730800	36.584	52.084
Difference (kWh)	24200	18800	0.55	0.32
Loss%	0.30%	0.68%	1.48%	0.61%

NAME OF SUB DIVISION			SUB DIVISION-II, Ka	ran Nagar.			
NAME OF 33/11 KV SUB STATION		Safakadal					
PERIOD /MONTH			Mar-24				
INCOMING FEEDER DETAILS							
NAME OF 33 KV LINE	METER S. NO	INITIAIAL READING (KWH)	FINAL READING (KWH)	Diff.	MF	UNITS RECEIVED (KWH)	
Safakadal	SS17047424	15896.5	18449.8	2553.3	1000	2553300.00000	
	SS17047423	17175.4	19929.4	2754.0	1000	2754000.00000	
	SS17047422	17137.8	19884.7	2746.9	1000	2746900.00000	
						8054200.00000	
OUTGOING FEEDER DETAILS							
NAME OF 11 KV FEEDER	METER S. NO	INITIAIAL READING (KWH)	FINAL READING (KWH)	Diff.	MF	UNITS DISPATCHE (KWH)	
STATION AUXILIARY							
FEEDER 1	SS17042588 /secure	7400.1	8247.8	847.7	2000	1695400.00000	
FEEDER 2	S17042586 /secure	7100.2	7935.7	835.5	2000	1671000.00000	
FEEDER 3	SS17042585 /secure	6924.8	7754.5	829.7	2000	1659400.00000	
FEEDER 4	S17042584 /secure	7151.4	7960.1	808.7	2000	1617400.00000	
FEEDER 5	SS17042481 /secure	5810.5	6503.9	693.4	2000	1386800.00000	
TOTAL UNITS DISPATCHED						8030000.00000	
TOTAL UNITS RECEIVED ON 33 KV LINE	8054200.00000						
TOTAL UNITS DISPATCHED ON 11 KV FEEDERS	8030000.00000						
DIFFERENCE (KWH)	24200.00000						
LOSS PERCENTAGE (%)	0.300%						
ASSISTANT EXECUTIVE ENGINEER SUB TRANSMISSION SUB DIVISION II				S	ub Divisio	n-II,Karan Nagar	

NAME OF SUB DIVISION	SUB DIVISION-II, Karan Nagar.						
	S H Pora						
PERIOD /MONTH	Mar-24						
INCOMING FEEDER DETAILS							
NAME OF 33 KV LINE	METER S. NO	INITIAIAL READING (KWH)	FINAL READING (KWH)	Diff	MF	UNITS RECEIVED (KWH)	
S H Pora	JKB15796	4356702.0	4384172.0	27470.0	40	1098800.00000	
	JKB15783	3147879.0	3180895.0	33016.0	50	1650800.00000	
						0.00000	
						2749600.00000	
OUTGOING FEEDER DETAILS							
NAME OF 11 KV FEEDER	METER S. NO	INITIAIAL READING (KWH)	FINAL READING	DIFFERENCE	MF	UNITS DISPATCHED	
STATION AUXILIARY						(4,11,1)	
FEEDER 2	1829175 /secure	5951.2	6203.2	252.0	2000	504000.00000	
FEEDER 4	X1829173 /secure	11003.3	11573.4	570.1	2000	1140200.00000	
FEEDER 5	X1829143 /secure	10660.1	11203.4	543.3	2000	1086600.00000	
TOTAL UNITS DISPATCHED						2730800.00000	
TOTAL UNITS RECEIVED ON 33 KV LINE	2749600.00000						
TOTAL UNITS DISPATCHED ON 11 KV FEEDERS	2730800.00000						
DIFFERENCE (KWH)	18800.00000						
LOSS PERCENTAGE (%)	0.684%						
ASSISTANT EXEC	UTIVE ENGINEER			Sub (Division	-II,Karan Nagar	
SUB TRANSMISSIO	N SUB DIVISION II				ST	TD-II	

NAME OF SUB DIVISION	SUB DIVISION 1-ST RAJBAGH					
NAME OF 33/11 KV SUB STATION	DANDERKAH					
PERIOD /MONTH		Mar-24				
INCOMING FEEDER DETAILS						
NAME OF 33 KV LINE	METER S. NO	INITIAIAL READING	FINAL READING (KWH)	DIFFERENCE	MF	UNITS RECEIVED (KWH)
GIS TANGPORA DANDERKAH	JKB 32650 SECURE	77391.1	79235.5	1844.4	1	18.44400
	JKB 32611 SECURE	78847.5	80716.5	1869.0	1	18.69000
						37.13400
OUTGOING FEEDER DETAILS						
NAME OF 11 KV FEEDER	METER S. NO	INITIAIAL READING	FINAL READING (KWH)	DIFFERENCE	MF	UNITS DISPATCHE
STATION AUXILIARY						
FEEDER 1	X 1291366 SECURE	36861.2	37709.1	847.9	2	16.95800
FEEDER 2	X 1291350 SECURE	31962.5	32642.5	680.0	2	13.60000
FEEDER 3	X 1291381 SECURE	17446.7	17932.0	485.3	1	4.85300
FEEDER 4	X 1291267 SECURE	2869.3	2986.6	117.3	1	1.17300
TOTAL UNITS DISPATCHED						36.58400
TOTAL UNITS RECEIVED ON 33 KV LINE	37.13400					
TOTAL UNITS DISPATCHED ON 11 K	36.58400					
DIFFERENCE (KWH)	0.55000					
LOSS PERCENTAGE (%)						
ASSISTANT EXECUTIVE ENGINEER	AEE,Sub Division-I,Ra	jbagh				
SUB TRANSMISSION SUB DIVISION		STD-II				

5.2.2. Status and progress in compliance to pre-requisites to energy accounting

This Energy Audit report is being issued within the time line stipulated in Regulations and hence the Energy Auditor has no further comments to offer with regards to this aspect.

It was observed that there has been delay in submission of Quarterly Accounts during first two Quarters (i.e., Q1 and Q2 of FY 2023-23) however, the accounts for Quarter 3 and Quarter 4 of FY 2023-24 were submitted timely. DISCOM needs to submit the Quarterly accounts within the timeframe stipulated in the Regulations. Further, the compliance with regards to Regulations and Pre-requisites are tabulated in the table below:

Table 32: Compliance status w.r.t Timelines and Pre-requisites

Clause	Details	Sub- Clause	Criteria	Compliance Status
3	Intervals of time for conduct of annual energy audit	а	Conducted an annual energy audit for every financial year and submitted 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	Yes
	Intervals of time for conduct of periodic energy accounting.	а	All feeder wise, circle wise and division wise periodic energy accounting is conducted by the energy manager of the electricity distribution company for each quarter of the financial year.	Yes
		b	All feeder wise, circle wise and division wise periodic energy accounting is conducted by the energy manager of the electricity distribution company for each quarter of the financial year.	Yes
4		С	Electricity distribution company conducted its first periodic energy accounting, for the last quarter of the financial year immediately preceding the date of such commencement (i.e., 6thOctober 2021)	Yes
		d	Electricity distribution company conducted 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.	Yes
	Pre-requisites for annual	а	Pre-requisites for annual energy audit and periodic energy accounting	Yes
	energy audit and periodic	b	Identification and mapping of high tension and low-tension consumers	Yes
5	energy accounting	С	Development and implementation of information technology enabled energy accounting and audit system, including associated software	
		d	Electricity distribution company ensures the installation of functional meters for all consumers, transformers and feeders. Meter installation is done in a phased manner within a period of three financial	Covered under RDSS. More than 2.5 lakh smart meters (consumer meters) have already been installed. Smart

Clause	Details	Sub- Clause	Criteria	Compliance Status
			years from the date of the commencement of these regulations in accordance with the trajectory set out in the First Schedule d.1. 100% Communicable Feeder Metering integrated with AMI, by 31st December 2022 along with replacement of existing non-communicable feeder meters.	feeder meters and DT Meters to be installed in FY 2024-25
			d.2. All Distribution Transformers (other than HVDS DT up to 25kVA and other DTs below 25 kVA) shall be metered with communicable meters. Communicable DT Metering for the following areas/ consumers to be completed by December 2023 and in balance areas by December 2025:	YES. Covered under RDSS. The work to commence from FY 2024-25
			d.2.1. All Electricity Divisions of 500 AMRUT cities, with AT&C Losses > 15%	
			d.2.2. All Union Territories (for areas with technical difficulty, non-communicable meters may be installed)	Will be acted upon if required once metering is taken up in far flung areas
			d.2.3. All Industrial and Commercial consumers	Yes
			d.2.4. All Government offices at Block level and above	Yes
			d.2.5. Other high loss areas i.e., rural areas with losses more than 25% and urban areas with losses more than 15%	Yes
			d.3. Prepaid Smart Consumer Metering to be completed for all directly connected meters and AMR in case of other meters, by December 2023 in the following areas: d.3.1. All Electricity Divisions of 500 AMRUT cities, with AT&C Losses > 15%;	Proposed for implementation in FY 2023-24. More than 54000 meters working in prepaid mode.
			d.3.2. All Union Territories (for areas with technical difficulty, prepaid meters to be installed);	Yes
			d.3.3. All Industrial and Commercial consumers;	Yes
			d.3.4. All Government offices at Block level and above;	Yes
			d.3.5. Other high loss areas i.e., rural areas with losses more than 25% and urban areas with losses more than 15%.	Yes
			d.4. Consumer Metering: 98% by FY 2022-23 99% by FY 2023-24	Yes To be achieved by end of FY2025-26
			d.5. Targets for functional meters - Meter FY 22-23 FY 23-24 FY24-25 Feeder metering 98.5% 99.5% 95.5 DT metering 90% 95% 98% Consumer metering 93% 96% 98	Target under RDSS
		е	e.1. All distribution transformers (other than high voltage distribution system up to 25kVA and other distribution system below 25 kVA) is metered with communicable meters.	Yes. LoA issued and work to commence in FY2024-25

Clause	Details	Sub- Clause	Criteria	Compliance Status
			e.2. And existing non communicable distribution transformer meters is replaced with communicable meters and integrated with advanced metering infrastructure.	Yes, under RDSS. LoA issued
		f	Electricity distribution company has established an information technology enabled system to create energy accounting reports without any manual interference and such systems may be within a period of three years from the date of the commencement of these regulations in case of urban and priority area consumers; and within five years from the date of the commencement of these regulations in case of rural consumers	Yes
		g	Electricity distribution company has a centralized energy accounting and audit cell comprising of (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	Chief Engineer is the Nodal Officer for Energy Accounting
	Reporting requirements for annual energy audit and periodic energy accounting	а	Electricity distribution company has a nodal officer, who is 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	Yes Chief Engineer (Distribution) is the Nodal Officer
		b	Electricity distribution company ensures 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.	Yes 100% metering is in place at 33kV and 11kV feeder level.
6		С	Metering of distribution transformers at High Voltage Distribution System up to 25KVA is done on cluster meter installed by the electricity distribution company	Partially in place. Balance is proposed under RDSS
		d	The energy accounting and audit system and software is developed to create monthly, quarterly and yearly energy accounting reports.	Yes, a system is in place. Will be further revamped under UBS / RDSS
		С	Electricity distribution company has provided 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	Yes

5.2.3. Data gaps

The Audit firm has raised the data gaps to the DISCOM. The summary of data gaps raised and response from DISCOM is summarized in the table below:

Table 33: Summary of Data gaps

S. No.	Data gaps raised by Energy Auditor	Response shared by DISCOM	Status of data submission by DISCOM
	Received at Feeder (Final in MU) not matching with Total Input Energy	Total Input Energy =10841.30 MU, and received at feeders=10342.35MU	Efforts to reduce the energy gap are being taken by way of ensuring proper feeder mapping including mapping of newly created feeders
	DT wise losses is not in account.	DT metering is not available	100% DT Metering proposed under RDSS

5.2.4. Summary of key responses of DISCOM management on Comments by Energy Auditor

The Auditor has identified the key issued with regards to Energy Accounting/Audit and DISCOM's management has responded to the same as summarized in the table below:

Table 34: Comments by Energy Auditor and responses of DISCOM management

S. No.	Comments by Energy Auditor	Response of DISCOM's management
1	Kindly provide the filled in format as per	Provided by KPDCL
	BEE.	
2	Quarterly format as per BEE	Provided by KPDCL
3	Kindly provide the Feeder wise Losses	Provided by KPDCL
4	DT Wise losses not in account	DT Wise metering to be under taken under RDSS to
		enable energy accounting at DT level
5	Energy (Electrical) Purchase report	Provided by KPDCL
	for the year 2023-24	
6	Open access consumer and their details	No Open access consumers.
7	Energy sold outside the DISCOM	NA
8	Energy Conservational Schemes	Being under taken by KPDCL especially installation of
	implemented	smart meters for flat rate consumers
9	Energy conservational Schemes to be	Various Energy Conservation Measures being adopted
	implemented	like installation of Solar Roof Tops
10	Quarter wise report	Provided by KPDCL
11	Energy (Electrical) Purchase report for	Provided by KPDCL
	the year 2023-24	
12	Open access consumer and their details	No Open access consumers.

5.3. Revised findings based on data validation and field verification

KPDCL officials responded to the data gaps and the plan for the site visit with Accredited Energy Auditor was prepared. The field visits were conducted in the month of July 2024 to verify the metering at KPDCL input points and in 33/11 kV substations. Details along with Photographs of site visit are annexed in the report.

- 1. Network diagram of the few feeders with high loss was checked and it was observed that some feeders are very lengthy and need bifurcation.
- 2. The condition of the conductor and the reason for the loss were discussed.
- 3. The input point meter serial number validation was carried out.
- 4. The energy accounting process validated for each circle.
- 5. Input energy data cross verification was carried out.
- 6. 11kV Feeder Meters readings were cross checked with AMR available in Data Center and found correct.
- 7. Check list submitted to the KPDCL and data gaps of the submitted data explained.
- 8. Feeder meter data validation, CT &PT working status of substations visited checked and found ok.
- 9. In substations it was observed that 100% feeder metering at 33kV and 11kV level is in place.
- 10. At the time of field visit it was found that at maximum substation the average power factor is above >0.95, which is satisfactory.

5.4. Inclusions and Exclusions

Particulars	2022-2023	2023-2024
Number of circles	6	6
Number of divisions	19	19
Number of sub-divisions	67	67
Number of feeders	1283	1398
Number of DTs	40779	40779
Number of consumers	1115545	1161008

6. Conclusion and Action Plan

6.1. Summary of critical analysis and way forward proposed by Energy Auditor

The primary energy-consuming areas are the domestic consumers followed by HT and LT Industrial and Commercial Installations.

6.1.1. Areas of Inefficiencies:

- **Distribution Network:** The energy consumption of the distribution network is higher than industry standards. The primary reasons for this are the aging infrastructure and lack of modern technology.
- AT&C Loss: It very high (40.65%) as compared to national average of 15.0%. The main reason of high AT&C losses is billing efficiency, which is around 48.02%.
- LT/HT Ratio: Increasing HT lines can help in reducing both line losses and voltage drops. Efforts should be made to achieve a low LT/HT ratio, which would be very beneficial for improving efficiency of power distribution in the KPDCL.

6.1.2. Recommendations:

- 100% DT Metering & Monitoring
- Creation of High Voltage Distribution System to cut down on losses at Distribution Level.
- Segregation / Bifurcation of Lengthy / Overloaded 11kV Feeders.
- Replacement of Overhead bare conductors by HT ABC and LT ABC cables to prevent illegal pilferage.
- Improvement in HT / LT Ratio by way of creation of new 33/11kV and 11/0.433 kV Substations.
- Installation of Energy Meters for all categories of consumers.
- Testing of Consumer Meters in KPDCL meter testing lab for any tampering.
- Constituting of Special Enforcement teams to check power theft.
- Procuring only Star Rated Distribution Transformers for new creations and to replace old / damaged ones.
- Encouraging Consumers to replace old conventional bulbs with energy efficient LED bulbs and to use star rated heating and cooling devices.
- Promoting use of Solar Roof Top (SRT) system at domestic, commercial and government installations.

6.1.3. Cost-Benefit Analysis:

To determine the cost-effectiveness of the recommended measures, a cost-benefit analysis should be conducted. The cost of implementing the measures should be compared to the potential energy savings to determine the return on investment. This analysis will help the company prioritize the implementation of the recommended measures.

In conclusion, the energy audit of the electricity distribution company revealed several areas of inefficiencies in energy consumption. The recommended measures, including upgrading the infrastructure, shifting to energy efficient devices, promoting employee awareness, and promoting use of solar energy will help to improve energy efficiency and reduce energy consumption. Conducting a cost-benefit analysis will help the company to prioritize the implementation of these measures. Overall, the implementation of these measures will improve the company's energy efficiency, reduce energy consumption, and lower energy costs.

6.2. Summary of key findings – energy balance and losses

The Energy balance and losses of KPDCL for FY 2023-24 are as shown in the table below:

Table 35: Energy balance and losses

Energy Input Details	Formula	UoM	Value
Input Energy Purchase (From Generation Source)	А	MU	11,124.05
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	В	MU	10,841.30
Total Energy billed (is the Net energy billed, adjusted for energy traded))	С	MU	5,205.55
Transmission and Distribution (T&D) loss Details	D	MU	5635.75
	E = D/B x 100	%	51.98%
Collection Efficiency	F	%	123.61%
Aggregate Technical & Commercial Loss	G = 1-{(1-E) x Min(F,100%)}	%	40.65%

6.3. Recommendations and best practices

a) Energy accounting

There is Energy accounting cell to account all the annual audit data as per BEE regulation. Quarterly energy audit is done by internal energy manager and send to BEE as per guidelines, Annual audit is done by accredited energy auditor. Energy Accounting is the first step towards identifying areas that need improvement. This will involve reviewing the current processes, systems, and data management practices.

Remedial Measures

- Maintaining Proper Feeder metering,
- Uploading Meter reading data by AMR.
- Ensuring correct DTs and consumer mapping
- 100% Consumer metering for all categories of consumers
- The old conventional meters are being replaced by Smart Meters so as to remove any human intervention and ensure correct and transparent billing.
- Proper energy audit

b) Loss reduction

Loss reduction is another important and Challenging task which KPDCL has taken up in an aggressive manner. Over the past Five years, KDCL has been able to bring down the AT&C losses from 75% to 40% with the aim of bringing them down to the National level / below 15% in coming 3 Years. The steps being taken include:

- i) 100% Consumer Metering at all levels.
- ii) Creation of High Voltage Distribution System to cut down on losses at Distribution Level.
- iii) Segregation / Bifurcation of Lengthy / Overloaded 11kV Feeders.

- i) Replacement of Overhead bare conductors by HT ABC and LT ABC cables to prevent illegal pilferage.
- iv) Improvement in HT / LT Ratio by way of creation of new 33/11kV and 11/0.433 kV Substations.
- v) Installation of Smart Energy Meters for all categories of consumers.
- vi) Testing of Consumer Meters in KPDCL meter testing lab for any tampering.
- vii) Constituting of Special Enforcement teams to check power theft.

c) Energy conservation

KPDCL is promoting Energy Conservation by way of education consumers on the subject. The various steps being taken in this regard include:

- i) Procuring only Star Rated Distribution Transformers for new creations and to replace old/damaged ones.
- ii) Encouraging Consumers to replace old conventional bulbs with energy efficient LED bulbs and to use star rated heating and cooling devices.
- iii) Promoting use of Solar Roof Top (SRT) system at domestic, commercial and government installations.

6.4. Action plan for line loss reduction

Loss Reduction Works & Smart Metering

Kashmir Power Distribution Corporation Limited (KPDCL) is implementing the Revamped Distribution Sector Scheme (RDSS) a flagship program of Government of India, in the Kashmir Valley. The scheme is aimed at improving the operational efficiency and financial sustainability of the DISCOOM. It focuses on reducing technical and commercial losses, strengthening distribution infrastructure and promoting smart metering. In this Context, KPDCL prepared an Action Plan & DPR of Rs. 6701.93 Cr. in consultation with RECPDCL and submitted the same to Nodal Agency after the approval of DRC. However, the Monitoring Committee has sanctioned a total of Rs. 2826.717 Cr. for Metering & Loss Reduction Component vide Sanction Letter No.: REC/RDSS/Kashmir/KPDCL/2022-2023/30 Dated: 17.10.2022 & REC/RDSS/KPDCL/2022-2023/341 Dated: 26.11.2022. The breakup is given below:

Works	Sanctioned Date	Sanctioned Cost (In Cr.)
Metering (Revised)	17.10.2022	504.96
Loss Reduction (Revised)	17.10.2022	2315.52
Feeder Metering	26.11.2022	6.237
Total		2826.717

Loss Reduction Works

Loss reduction is a critical component of RDSS, targeting AT&C losses which include Technical losses and Commercial Losses. The key loss reduction initiatives comprise of:

- Strengthening Distribution Infrastructure by way of upgradation of substations, transformers and feeders, use of HVDS, replacement of old conductors with efficient alternatives.
- Feeder Segregation to improve supply quality and monitoring.
- Energy Auditing and Accounting by way of installing energy meters at feeders, DTs and consumer levels for accurate loss assessment.

- Smart Metering to improve billing efficiency and revenue collection.
- Prepaid metering for better cash flow management and improve demand side management by providing real time consumption data to consumers.

Execution of works is being done by respective Turnkey Contractor in all packages. The overall progress is given below:

Status of Progress

	RDSS KPDCL										
					Table of	Content					
					Award Cost		F	Physical Progre	ess	Supplied Material	
S. No.	Components	Packages/Division	Sanctioned Cost	Awarded Supply Cost	Awarded Erection Cost	Total Awarded Cost	Supply Cost of material Erected	Erection Cost of material Erected	Physical Progress Percentage	Value of Material Received at TKC Store	Supplied Material Percentage
0	Table of Content	KPDCL									
		ED-1st Srinagar (LR Works)	129.72	114.12	21.45	135.57	10.34	1.58	8.8%	23.88	20.9%
2	Physical Progress	ED-2nd Srinagar (LR Works)	237.62	164.48	70.31	234.79	11.69	7.42	8.1%	23.97	14.6%
3		ED-3rd Srinagar (LR Works)	71.02	49.25	20.42	69.67	6.75	4.26	15.8%	9.40	19.1%
		Budgam (LR Works)	144.88	140.74	4.13	144.87	9.92	0.68	7.3%	28.74	20.4%
5	Physical Progress	Baramulla (LR Works)	233.45	208.73	23.16	231.89	28.17	4.63	14.1%	56.00	26.8%
6		DISCOM (LR Works) (KPDCL-All 5 Packages)	816.69	677.32	139.47	816.79	66.87	18.57	10.5%	141.99	21.0%

	Ph	ysical	Progress	in Loss	Reduction	n Works ur	nder RDSS	
S No	Components	Unit	ED1	ED2	ED3	Budgam	Baramulla	Cumu;ative KPDCL
Α	Poles							
1	8 Mtr STP	Nos.	1851	2360	1530	2996	4641	13378
2	9 Mtr STP	Nos.	653	1750	861	385	2499	6148
3	11 Mtr STP	Nos.	0	9	11	17	21	58
	Total Poles	Nos.	2504	4119	2402	3398	7161	19584
В	AB Cable	-						
1	35Sgmm	Kms	21.63	6.72	15.48	26.61	129.81	200.25
2	50Sqmm	Kms	2.72	13.39	2.54	10.78	12.35	41.78
3	70Sqmm	Kms	13.21	26.42	26.7	46.54	81.66	194.53
4	120Sqmm (LT)	Kms	19.89	17.5	15.84	15.96	33.07	102.26
5	120Sqmm (HT)	Kms	1.26	0.63	0.6	0	0.2	2.69
	Total AB Cable	Kms	58.71	64.66	61.16	99.89	257.09	541.51
С	ACSR Conductor							
1	50Sqmm Rabbit	Ckms	0	8.94	2.34	0.08	6.47	17.828
2	100Sqmm Dog	Ckms	0.44	1.13	0.05	4.02	8.6	14.24
	Total Conductors	Ckms	0.44	10.07	2.39	4.10	15.07	32.068
D	DTRs							
1	63KVA	Nos.	10	0	0	1	25	36
2	100KVA	Nos.	32	63	31	0	10	136
3	200KVA	Nos.	30	53	0	2	47	132
	Total DTR	Nos.	72	116	31	3	82	304
F	Consumers Shifted on AB Cable	Nos.	1055	160	600	o	2242	4057

> Smart Metering Works

The Smart metering works have been have already commenced and the work is targeted for completion in August 2026. The progress as on 31.03.2024 is given below

	Progress of Smart Meter Installation ending March 2024						
S No	Component	PIA wise Amount (Cr.)	LoA Cost (Rs in Cr.)	Sanctioned Quantity (Nos)	Awarded Quantity (Nos)	Progress Quantity (Nos)	
1	1-Ph Consumer Meter			664292	664293	249420	
2	3-Ph Consumer Meter			18513	18513	3715	
3	LT CT Consumer Meter	511.19	818.85	2894	2894	1601	
4	DT Meter			40670	40670	0	
5	Feeder Meter			1485	1485	0	

The Loss reduction work coupled with the smart metering are aimed to bring in improvement in power reliability and boost billing and collection efficiency of the utility. This in turn will reduce the revenue gap of the DISCOM. The results in this regards have already begun to show in the form of decreasing T&D and AT&C Loss figures. Once the works are completed, the aim of proper energy accounting and consumer satisfaction will be achieved.

> Electrification of UN Electrified Households of Kupwara & Bandipora

Kashmir Power Distribution Corporation Limited (KPDCL) is in the process of securing Electrification of Unelectrified HHs of Kupwara, Banadipora and On-Grid Connectivity for Gurez, Bandipora. In this regard, KPDCL has formulated a Detailed Project Report (DPR) with an estimated cost of Rs. 66.38 Cr for aforementioned works. The matter has been taken up with the Ministry of Power, Government of India for its sanction and funding. The abstract of the DPR is provided below:

	Abstract of DPR Cost					
SI. No.	Name of Work	DPR Cost (Rs. In Cr.)				
1	Electrification of Un-Electrified Households (UE) of Kupwara District under Revamped Distribution Sector Scheme (RDSS) (1936 Households)	14.84				
2	Construction of New 33/11 KV, 1x6.3 MVA Substation in Tulail along with 33 KV & 11 KV Line under Revamped Distribution Sector Scheme (RDSS)	30.80				
3	Electrification of Un-Electrified Households (UE) for Tulail & Kalzalwan of Bandipora District under Revamped Distribution Sector Scheme (RDSS) (2619 Households)	20.74				
	Grand Total:	66.38				

> IT/OT Works

1. Unified Billing System

Unified Billing System is being implemented in KPDCL wherein the billing of sub divisions in island mode is being discontinued and all SDOs are being brought on a single billing platform. This will ensure more transparency and accountability in the billing system. The work has been awarded on 23.03.2023 the rollout of the billing solution is scheduled for FY2024-25

2. Enterprise Resource Planning (ERP)

KPDCL has undertaken implementation of ERP under RDSS. It focuses on integrating various business functions such as finance, human resources, asset management, and customer services into a unified system. The process for engaging the Project Implementing Agency has been initiated and the roll out of the same has been targeted for FY 2024-25. The expected benefits include:

- Improved operational efficiency
- Enhanced customer satisfaction
- Cost Savings

6.5. Action plan for monitoring and reporting

KPDCL is taking special steps to put in place a robust monitoring and reporting system. At present, through Meter Data Acquisition System Data AMR facility for 315 11kV outgoing feeder meters is available. Besides, through SCADA and RT-DAS status of 400 Feeders is available at SCADA and RTDAS Control Centers. The data is used for Energy Accounting and other MIS Reports which help in identifying areas that need improvement.

Under RDSS the following works are proposed to be undertaken to strengthen the monitoring and reporting system:

- i) Implementing full SCADA in Anantnag Town which will cover 10 substations / 36 Feeders.
- ii) Implementing Partial SCADA in Sopore, Baramulla and Ganderbal Towns covering 16 Substations / 61 Feeders
- iii) Implementing Real Time Data Acquisition System (RT-DAS) in 55 substations Covering 255 Feeders.
- iv) Replacement of all 11kV Feeder Meters with Smart Meters for on boarding them on National Feeder Monitoring System (NFMS).
- v) Installation of more than 7lakh communicable meters at consumer, DT and Feeder level.

Once rolled out, the system will be continuously monitored to identify any issues and improve the system's performance.

6.6. Action plan for automated energy accounting

Automated energy accounting is a critical component of modern electricity distribution systems. It allows for accurate and efficient tracking of energy usage, which helps identify energy waste, reduce energy consumption, and improve billing accuracy.

Presently AMR facility is available for 315 11kV Feeder Meters where in Meter Data is being captured and relayed to Data Center at Bemina. On the consumer level more than 250000 smart meters are sending data through HES to MDM for analysis and billing.

Under RDSS, the action plan for Automated Energy Accounting Includes:

- Replacement of all 11kV Feeder Meters with Smart Meters and relaying the data to Master Control Room

 / National Feeder Monitoring Scheme (NFMS) System.
- ii) Providing of Smart Meters on all Distribution Transformers and relaying data to Master Control Room.
- iii) Replacement of all Consumer Meters with Smart meters and relaying the data to Master Control Room without any manual intervention.

While the Feeder metering and DT metering is scheduled to be completed by March 2025, the consumer metering works is targeted for completion August 2026 and the entire process will be on AMI platform. Once implemented, it will improve billing accuracy, reduce energy loss and enhance data management capabilities. The action plan outlined above provides a framework for implementing an automated energy accounting system in KPDCL. By following this plan, the company will be successfully achieving its goals of energy accounting and consumer satisfaction.

Automated energy accounting is a critical component of modern electricity distribution systems. It allows for accurate and efficient tracking of energy usage, which helps identify energy waste, reduce energy consumption, and improve billing accuracy. In this report, we will outline an action plan for implementing automated energy accounting in an electricity distribution company.

Step 1: Evaluate Current Energy Accounting System

The first step is to evaluate the current energy accounting system to identify areas that need improvement. This will involve reviewing the current processes, systems, and data management practices. The evaluation should consider the following factors:

- · Accuracy of metering and billing
- Timelines of bill generation
- · Data management practices
- Energy usage tracking capabilities
- Customer feedback and complaints

Step 2: Identify Automated Energy Accounting System Requirements

After evaluating the current energy accounting system, the next step is to identify the requirements for an automated energy accounting system. This will involve considering the following factors:

- Energy usage tracking capabilities
- Billing accuracy and timeliness
- Integration with existing systems
- Data management capabilities
- Scalability and flexibility

Step 3: Research and Select an Automated Energy Accounting System

Once the requirements are identified, the next step is to research and select an automated energy accounting system. This will involve reviewing available options and selecting a system that meets the identified requirements. The selected system should have the following features:

· Real-time energy usage tracking

- · Automated billing and metering
- Data management and analysis capabilities
- · Integration with existing systems
- User-friendly interface

Step 4: Develop Implementation Plan

After selecting an automated energy accounting system, the next step is to develop an implementation plan. This will involve determining the following:

- Timeline for implementation
- Resource requirements
- Roles and responsibilities
- Training requirements
- Data migration plan

Step 5: Implementation and Testing

Once the implementation plan is developed, the next step is to implement and test the automated energy accounting system. This will involve the following:

- Installation and configuration of the system
- Data migration from the old system to the new system
- User training
- System testing

Step 6: Rollout and Monitoring

After successful testing, the next step is to rollout the automated energy accounting system to all customers. This will involve communicating the changes to customers and ensuring a smooth transition. Once rolled out, the system should be continuously monitored to identify any issues and improve the system's performance.

In conclusion, implementing an automated energy accounting system can help the KPDCL improve billing accuracy, reduce energy waste, and enhance data management capabilities. The action plan outlined above provides a framework for implementing an automated energy accounting system in an electricity distribution company and the same is being actively worked upon for its implementation in KPDCL in order achieve the energy accounting goals.

Annexures

Annexure I - Introduction of Verification Firm

We A-Z Energy Engineers Pvt. Ltd. provides consultancy services in the areas of energy management while conducting Energy Audits in all segments of energy input. For conducting Detailed Energy Audits, Energy Audits under PAT (Mandatory and M&V), we have a pool of experienced BEE Accredited & Certified Energy Auditors, Electrical Engineers, Mechanical Engineers and Technicians having experience of more than 30 years. The Energy Audits is being carried out with sophisticated instruments namely Power-Analyzer, Flue Gas Analyzer, Ultra-sonic flow meter, Techo-meter, Anemometer, Hego-Meter, Digital Thermometer, Thermographic Camera's, Lux Meter, Leak detectors. Laser gun etc. etc.

Objective

- To carry out and take ahead the business of Energy Efficiency and climate change including promotion and dissemination of energy efficient product and services.
- To disseminate the culture of safe manufacturing and Services through safety audits and trainings.
- To facilitate implementation of energy efficiency projects for Demand Side Measures including optimization of energy mix for industries, railways, building sector, lighting, HVAC etc.
- To facilitate implementation of schemes, programs and policies of central and state governments or its agencies applicable for enhancing energy efficiency.
- To provide consultancy services in the field of Clean Development Mechanism and Renewable Energy Certificate projects, Carbon Markets, Demand Side Management, Energy Efficiency, Climate change and other related areas.
- To identify and impart training to build the capacity of stakeholders in the field of Energy Efficiency and safe practices in Industry.
- To act as a resource center in the field of Energy Efficiency and take up the activities of Capacity Building Training and other related activities.

Vision

- To make use of energy sustainable.
- To create and sustain markets for energy efficiency in India
- To facilitate energy efficiency improvement through private sector investments in energy efficiency.

Mission

- To assist all stakeholders in implementing energy efficiency and realizing savings.
- To create awareness regarding merits of improvement of energy efficiency and safety practices in private and public sector.

We are Accredited Energy Auditor from BEE, also empaneled by BEE for PAT M & V Audits and Mandatory Energy Audit Projects. A-Z Energy Engineers Pvt. Ltd. has been short listed by Bureau of Energy Efficiency as an Energy Service Company (ESCO), it is an ISO 9001:2015 certified company. We have completed more than 1800 nos. projects, including 80 PAT projects.

Dr. P.P. Mittal the Founder Director of A-Z Energy Engineers Pvt. Ltd. was awarded by Govt. of India in National Energy Conservation Award 2013, 2015 & 2016. MSME Ministry Govt. of India awarded "Best Services Providing Company" it was awarded by Hon'ble Prime Minister of India.

a) Name of the Firm

Nameof AccreditedFirm	Accredited Energy Auditor
A-Z energy Engineers Private Limted	Dr P.P Mittal (AEA 011)

b) Composition of Team

Sr.No.	Name	Qualification	Registration No	Experience (InYears)/Sector
1	Dr. P.P Mittal	Ph.D, MBA	AEA	+45 Years
2	Mr. Vipon Chanda	DISCOM Sector		30
3	Mr. V.P Sharma	B. Tech	EA	32 Years
4	Mr. Alok Kumar Tiwari	B. Tech	EA	6 Years
5	Mr. Pankaj Chauhan	Team Member		8 Years

c) Registration No.

EmAEA 0024.

d) Undertaking

We A-Z Energy Engineers Pvt. Ltd. hereby confirm that our AEA and any of the audit team member mentioned in this report has conduct mandatory annual energy audit (Accounting) for KPDCL, Jammu & Kashmir (hereafter called as DC).

We also confirm that none of our team member was in the employment of the DC within the previous four years, and was not involved in undertaking energy audit of the DC within the previous four years.

Authorized Signatory

Accredited Energy Auditor AEA-011

Dr. P. P. MITTAL Drop. P. Mittal

Annexure II - Minutes of Meeting with the DISCOM team

Minutes of meeting between Kashmir Power Distribution Corporation Limited (KPDCL) & A-Z Energy Engineers Pvt. Ltd., New Delhi

AZ Energy Engineers audit team visited the site (KPDCL) during July 2024 to conduct the energy audit accounting with reference to the KPDCL work order dated 16 February 2023 and notification from the Bureau of Energy Efficiency dated 6th October 2021 for Conduct of Energy Audit (Accounting) in Electricity Distribution Companies.

Following are the key observations during audit.

- Filled in Proforma for FY 2023-24 was available with Kashmir Power Distribution Corporation
 Limited, Srinagar. Audit team verified the filled proforma.
- Verified T&D losses, AT&C losses & Collection Efficiency is 51.98%, 40.65% & 123.61%
 respectively based on the filled in proforma and verified source documents.
- Client has provided the documents for purchase power, Input/Billed energy, No. of consumers, Nos. of DT's, Nos. of Circles on the basis of Internal Departmental Report, Energy Account & Sub Divisional Database.
- Client has provided details for Action Plan to reduce the losses.
- Substation (DT) wise losses are not included.
- KPDCL has provided power map, SLD, Organization chart and substation audit reports.
- KPDCL has provided Amount Billed & Collection Details; both Quarter wise & Month wise.

Kashmir Power Distribution Corporation Limited

tug

Energy Engineers Pvt. Ltd.

Accredited Energy Auditor

aridaba

Annexure III - Check List prepared by auditing Firm

Check list evidence for T & D and AT&C and supporting documents energy input data, sale data, feeder wise loss data, collection efficiency etc.

List of documents required:

- Data details in BEE format for Quarter 1,2,3,4 and Total separately
- Quarter wise Filled Proforma
- Month wise Purchase energy
- Month wise input and billed energy.
- T&D losses computation approach.
- Un-metered energy consumption approach.
- Internal field audit report of input and billed energy.
- Performance of dicsom on distribution losses.
- Outcome of internal filed audit.
- Measures taken to reduce losses and improve losses.
- Zone/circle/Division/Sub-division wise loss computation.
- Reduction achieved, measures adopted for energy conservation and quantity of energy saved.
- Report on distribution losses.
- List of measuring equipment's and calibration certificates and frequency of calibration.
- Write up on energy scenario.
- Net Input Energy Computation Details.
- Category wise consumer's details.
- Category wise consumers connected load and % load
- Bifurcation of Billed Energy (metered billed energy and unmetered billed energy).
- Disconnected consumers details
- Loss Analysis report
- Write up on procedure followed Technical loss analysis.

Annexure IV - Brief Approach, Scope & Methodology for audit

Scope of annual energy accounting is as per guidelines and notification from Bureau of Energy Efficiency, New Delhi dated 6th October, 2021



Annexure V - Infrastructure Details

The infrastructure details of the DISCOM are as shown in the table below:

Table 36: Infrastructure details

Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
Number of circles	6	6	6	
Number of divisions	19	19	19	
Number of sub- divisions	67	67	67	
Number of feeders	1398	1398	1398	
Number of DTs	40779	40779	40779	
Number of consumers	1161008	1161008	1161008	

Table 37: Metering details

Parameters	66kV and above	33kV	11/22kV	LT
Number of conventional metered consumers	0	380	19654	130632
Number of consumers with 'smart' meters	0	0	0	254736
Number of consumers with 'smart prepaid' meters	0	0	0	54327
Number of consumers with 'AMR' meters		0	0	0
Number of consumers with 'non-smart prepaid' Meters	0	0	0	0
Number of unmetered consumers	0	0	0	701279
Number of total consumers	0	380	19654	1140974
Number of conventionally metered Distribution Transformers	0	0	0	0
Number of DTs swith communicable meters	0	0	0	0
Number of unmetered DTs		0	40779	0
Number of total Transformers	0	0	40779	0
Number of metered feeders	0	180	878	
Number of feeders with communicable meters	0	0	340	0
Number of unmetered feeders	0	0	0	0
Number of total feeders	0	180	1218	0
Line length (ctkm)	0	2366.69	20265	47689
Length of Aerial Bunched Cables	6038			
Length of Underground Cables	137.25			

Annexure VI - Power Purchase Details

a) Input Purchase Power for FY 2023-24

Source wise/generating station wise power purchase, contracted capacity, RPO obligation met by the DISCOM, etc.

S.No.	Name of Generation Station	Generation Capacity (In MW)	Type of Station Generation	Type of Contract	Type of Grid	Voltage Level (At input)
1	SINGRAULI	2000	Coal	shall remian operative as per policy of Gol	ISGS	
2	RIHAND-1	1000	Coal	25 years	ISGS	132
3	RIHAND-2	1000	Coal	25 years	ISGS	132
4	RIHAND-3	1000	Coal	25 years	ISGS	132
5	UNCHAR-I	420	Coal	25 years	ISGS	
6	UNCHAR-II	420	Coal	25 years	ISGS	
7	UNCHAR-III	210	Coal	25 years	ISGS	
8	UNCHAR-IV	500	Coal	25 years	ISGS	
9	ANTA (G)	419	Gas	15 years	ISGS	
10	AURIYA (G)	663	Gas	15 years	ISGS	
11	DADRI (G)	830	Gas	35734	ISGS	
12	JHAJJAR	1500	Coal	shall remain operative as per policy of Gol	ISGS	
13	DADRI STAGE-II	980	Coal	shall remain operative as per policy of Gol	ISGS	
14	KOLDAM	800	Hydro	35 years	ISGS	
15	SINGRAULI SHP	8	Hydro	shall remain operative as per policy of Gol	ISGS	
16	TandaTPS	1320	Coal	25 years	ISGS	
17	MEJA	1320	Coal	25 years	ISGS	
18	SALAL	690	Hydro	Extended for 35 yrs from COD (01-04-1995)	ISGS	220
19	T.PUR	94	Hydro	Extended for 35 yrs from COD (01-04-1993)	ISGS	
20	CHEMERA 1	540	Hydro	Extended for 35 yrs from COD (01-05-1994)	ISGS	
21	CHEMERA 2	300	Hydro	Extended for 35 yrs from COD (31-03-2004)	ISGS	
22	CHEMERA 3	231	Hydro	Extended upto 5 yrs from COD (03-07-2012) upto 03-07-2017	ISGS	
23	URI 1	480	Hydro	Extended for 35 yrs from COD (01-06-1997)	State	
24	URI2	240	Hydro	Extended for 5 yrs up to 29- 02-2024	State	
25	DHAULIGANGA	280	Hydro	35 years	ISGS	
26	DUL HASTI	390	Hydro	Extended for 35 yrs from COD (07-04-2007)	State	
27	SEWA-2	120	Hydro	Extended for 35 yrs from COD (24-07-2010)	State	
28	PARBATI-III	520	Hydro	Extended upto 5 yrs from COD (05-06-2014) upto 05-06-2019	ISGS	
29	KISHANGANGA	330	Hydro	5 years	ISGS	

S.No.	Name of Generation Station	Generation Capacity (In MW)	Type of Station Generation	Type of Contract	Type of Grid	Voltage Level (At input)
30	Nimmo Bazgo	45	Hydro	35 years	State	
31	Chutak	44	Hydro	35 years	State	
32	NAPS	440	Nuclear	15 years	ISGS	
33	RAPS-B	440	Nuclear	15 years	ISGS	
34	RAPS-C # 5&6	440	Nuclear	15 years	ISGs	
35	N-JHAKHARI	1500	Hydro	first signed on 27.11.2010 (came into force w.e.f 18.05.2009, Extended on 16.11.2013 (came into force 18.05.2014 again got extended on 17.05.2019 (came into force on 18.05.2019) 17/05/2024	ISGS	
36	RAMPUR	412.02	Hydro	35 years	ISGS	
37	FRKKA	1600	Coal	01 year	ISGS	
38	KHLGN-1	840	Coal	25 years	ISGS	
39	KHLGN-2	1500	Coal	25 years	ISGS	
40	TLCHR	1000	Coal	01 year	ISGS	
41	MEJIA-6	250	Coal		ISGS	
42	TEHRI	1000	Hydro	35 years	ISGS	
43	KOTESHWAR	400	Hydro	35 years	ISGS	
44	TALA	1020	Hydro		ISGS	
45	Baghliar HEP-I	450	Hydro	20 years	State	220
46	Baghliar HEP-II	450	Hydro	35 years	State	220
47	LJHP	105	Hydro	15 years	State	132
48	USHP-I	22.5	Hydro	15 years	State	132
49	USHP-II	105	Hydro	15 years	State	132

Jammu and Kashmir power corporation limited (JKPCL) is authorised to procure power purchase from long term, short term and other alternative sources of erstwhile JKPDD to meet day to day energy required of KPDCL and Jammu power distribution limited (JPDCL). The month wise purchase units are shown in below table:

Table 38: Month wise power purchase

Sr. No.	Months	Energy (in Mus)
1	Apr-23	1120.13
2	May-23	1040.59
3	Jun-23	990.41
4	Jul-23	766.51
5	Aug-23	715.78
6	Sep-23	693.83
7	Oct-23	689.35

Sr. No.	Months	Energy (in Mus)
8	Nov-23	874.09
9	Dec-23	987.41
10	Jan-24	1097.00
11	Feb-24	1149.43
12	Mar-24	999.53
	Total	11124.05

b) Circle wise monthly Input Energy for FY 2023-24

The Month wise break up of input energy (MUs) parameter for all the circle is given below:

Table 39: Circle wise monthly input & Billed energy (MU)

Circle Name	Circle-1st	Circle-2nd	Circle- Bijbehara	Circle- Ganderbal	Circle- Pulwama	Circle-Sopore	Total
APR-23	160.13	272.43	177.02	103.06	160.15	203.76	1076.56
MAY-23	155.30	252.43	167.49	98.58	146.68	201.11	1021.59
JUN-23	148.28	235.94	160.42	92.40	135.75	194.03	966.82
JUL-23	112.18	180.52	122.67	68.58	107.75	149.64	741.34
AUG-23	108.87	169.20	116.71	61.07	105.47	136.71	698.03
SEP-23	107.20	166.02	113.90	56.42	103.13	131.87	678.54
OCT-23	102.78	161.30	113.33	56.31	102.22	130.98	666.91
NOV-23	127.21	207.33	141.88	85.62	132.49	169.32	863.85
DEC-23	141.00	236.07	160.48	88.68	149.76	185.68	961.68
JAN-24	157.71	267.94	174.43	102.40	168.74	198.00	1069.22
FEB-24	162.88	279.85	186.97	107.70	177.61	206.32	1121.33
MAR-24	147.43	247.71	154.28	91.47	153.86	180.67	975.42
TOTAL	1630.98	2676.75	1789.60	1012.28	1643.61	2088.09	10841.30

c) Circle wise monthly Billed Energy for FY 2023-24

The Month wise break up of Billed energy (MUs) parameter for all the circle is given below:

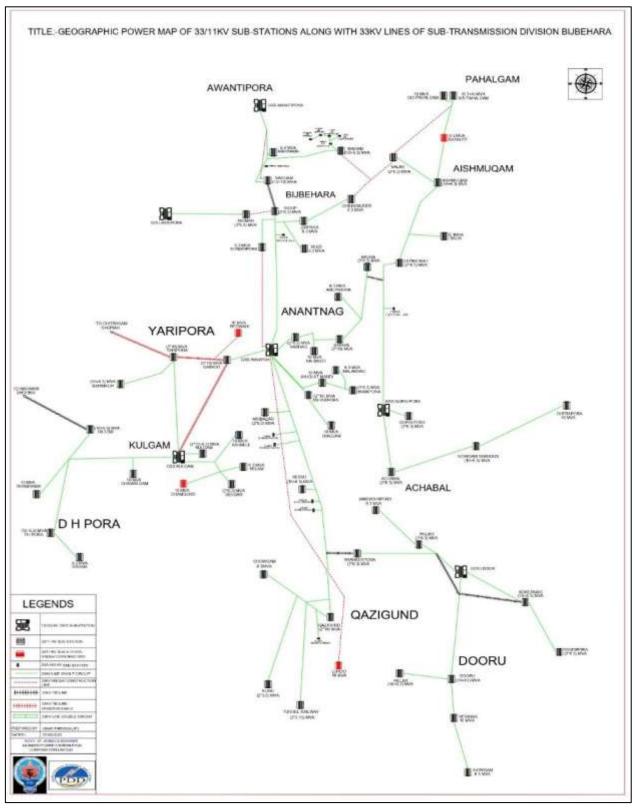
Circle Name	Circle-1st	Circle-2nd	Circle- Bijbehara	Circle- Ganderbal	Circle- Pulwama	Circle-Sopore	Total
APR-23	60.38	88.08	68.58	32.96	66.20	75.77	391.97
MAY-23	55.20	88.36	73.80	35.44	66.72	77.21	396.73
JUN-23	60.85	75.66	74.96	38.72	67.01	78.50	395.70
JUL-23	65.85	95.29	72.54	36.60	69.23	76.87	416.38
AUG-23	58.66	84.72	74.16	36.05	69.61	75.11	398.32
SEP-23	58.62	87.32	73.65	36.04	78.92	76.89	411.43
OCT-23	62.13	82.70	72.74	34.99	71.96	77.09	401.61
NOV-23	62.45	88.41	72.15	33.98	69.37	80.25	406.60

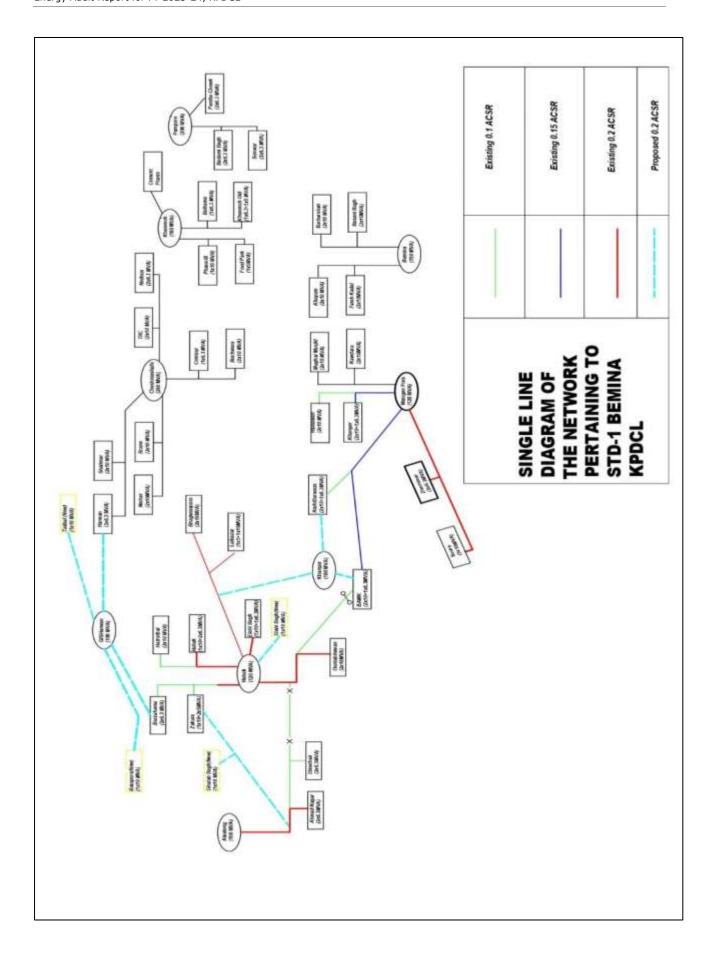
Circle Name	Circle-1st	Circle-2nd	Circle- Bijbehara	Circle- Ganderbal	Circle- Pulwama	Circle-Sopore	Total
DEC-23	73.40	108.07	75.21	35.90	68.27	78.51	439.36
JAN-24	84.75	119.01	87.49	42.35	75.72	91.76	501.07
FEB-24	87.64	122.47	90.58	42.04	79.34	93.58	515.65
MAR-24	89.85	129.83	89.40	44.90	82.86	93.88	530.72
TOTAL	819.80	1169.90	925.24	449.97	865.21	975.43	5205.55

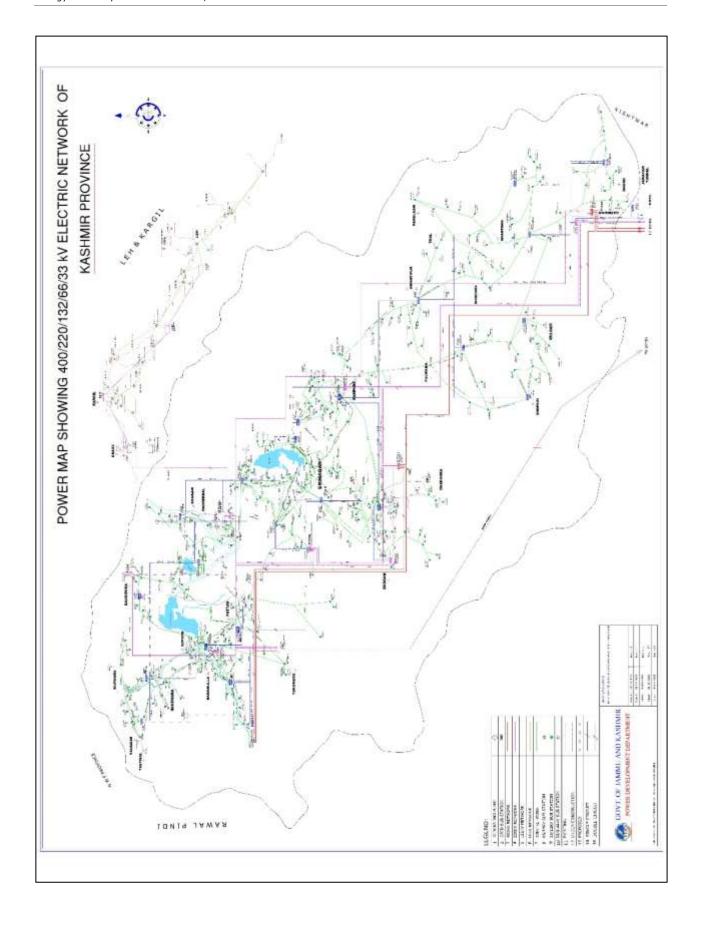
Annexure VII - Single Line Diagram (SLD)

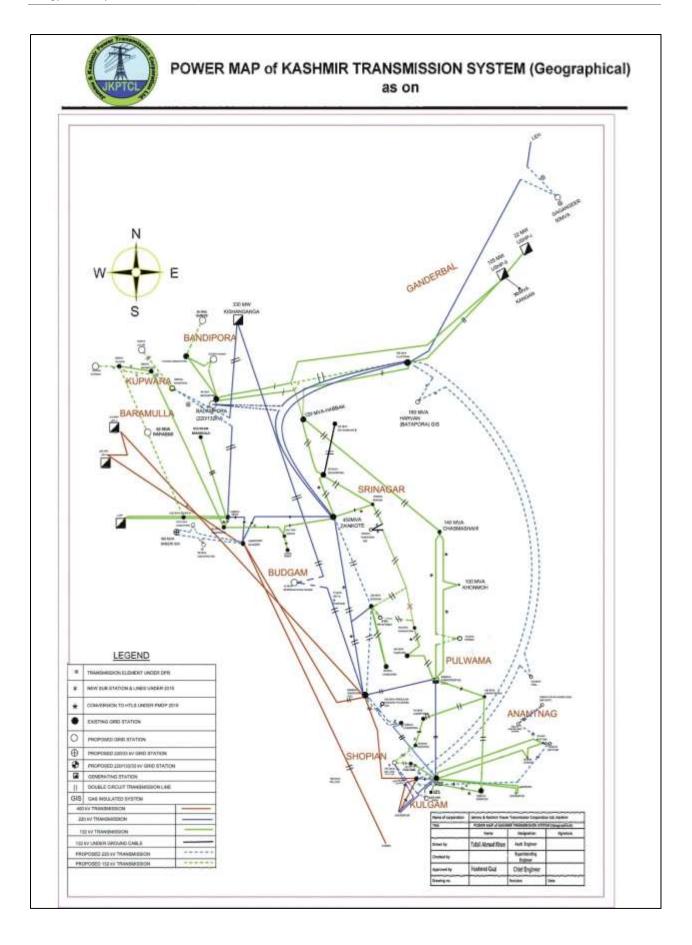
The SLD of the DISCOM is as shown below:

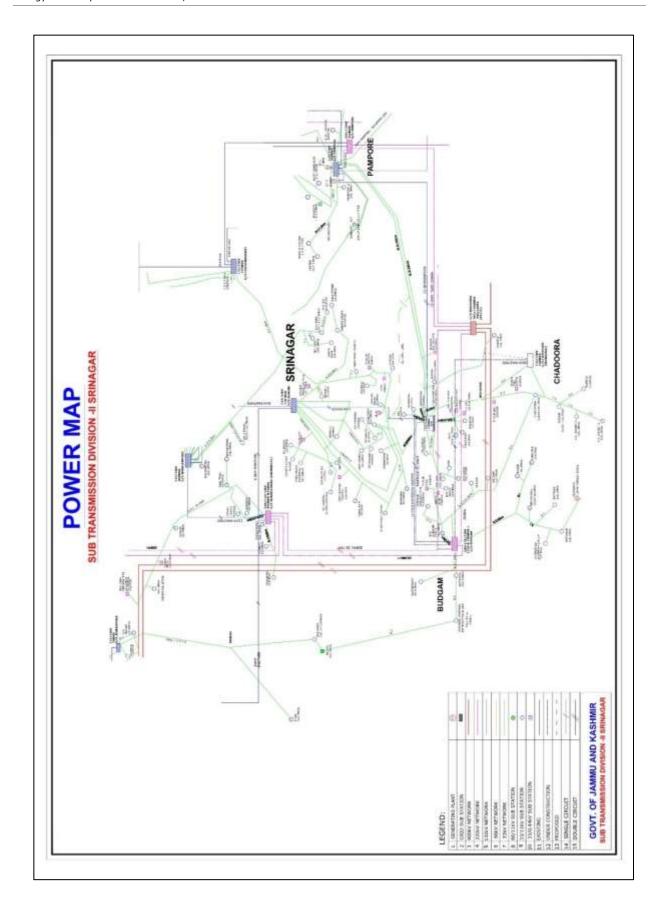
Figure 10: Single Line Diagram (SLD) of KPDCL











Annexure VIII - Category of service details (With Consumer and voltage-wise)

Type of consumers with different type of voltage & number of consumers are shown in below table:

Table 40: Category of service details

Typeof Consumers	Category of Consumers	Voltage Level	No ofConsumers	Total Consumption (InMU)
Residential	LT	LT	963036	3508.76
Agricultural	LT	LT	633	4.10
Agricultural	HT	11KV	805	45.68
Agricultural	EHT	33KV	24	32.07
Commercial/Industrial-LT	LT	LT	174153	297.04
Commercial/Industrial-LT	НТ	11KV	14146	365.59
Commercial/Industrial-LT	EHT	33KV	124	5.99
Commercial/Industrial- HT	НТ	11KV	360	145.92
Commercial/Industrial- HT	EHT	33KV	75	276.80
Others	LT	LT	3152	88.34
Others	НТ	11KV	4343	276.81
Others	EHT	33KV	157	158.44
TOTAL			1161008	5205.55

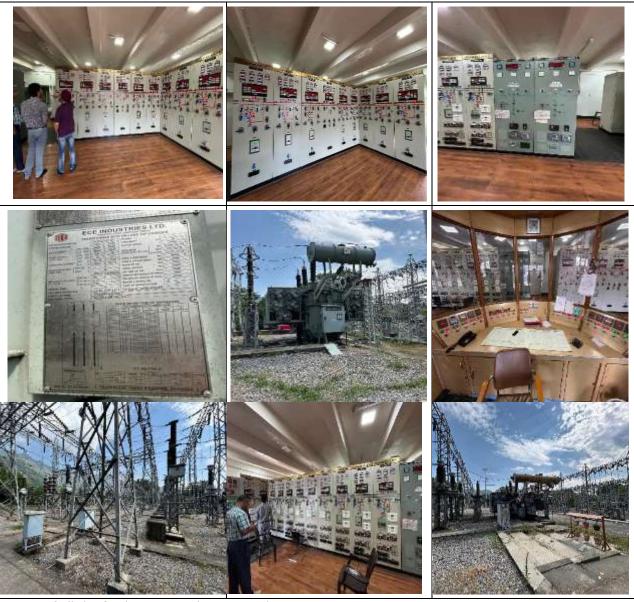
Annexure IX - Field Verification data and reports

The field inspection details are shown in the below table:

Table 41: Field inspection details

Photographs taken during field verification are shown below:

132/33KV Chasmashahi Grid Susbstation (TR 2 x 50MVA and 2 x 20MVA)



Meters of all the feeders are working properly.

All feeders are under loaded.

Two Capacitor Banks Installed (5MVAR Each)

P.F is 0.901 to 0.968

Transformer oil level ok, silica gel ok, temperature ok

33/11KV Brein S/S - (2 x 10MVA)













Meters of all the feeders are working properly.

All feeders are under load.

P.F is 0.89 & 0.91

Transformer oil level ok, silica gel ok, temperature ok

33/11KV Shalimar S/S - (2 x 10MVA)







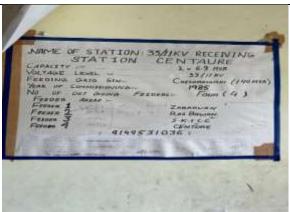






33/11KV Centaur S/S - (2 x 6.3MVA)

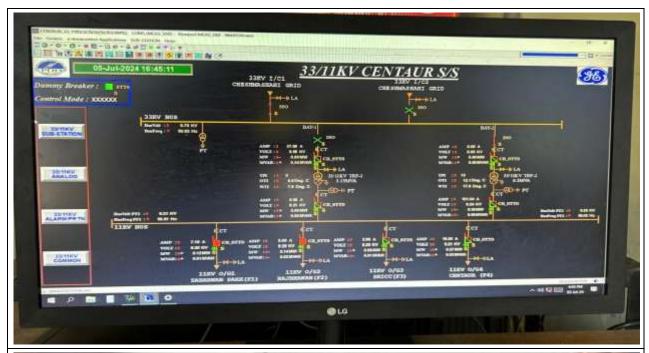














Annexure X - List of documents verified with each parameter

The documents verified are listed in the below table:

Table 42: List of documents verified with each parameter

S. No	Data Required for Annual Energy Audit as per BEE regulation	Status	Remark		
1	Complete filled in Proforma for the year 2023-2024 (Annually)	Provided	Data Attached		
2	Supporting Data with Month wise breakup				
Α	Purchase Energy				
В	Net Input in Discom				
С	Billed Energy	Provided Month wise breakup	Data Attached		
D	Revenue Demand				
Е	Revenue Collected				
F	Energy Export to other				
G	Transmission loss calculation Methodology	NA	NA		
3	Feeder wise input ,Billed Energy, T&D & AT&C losses	Provided	Data Attached		
4	Action plan to reduce the T&D and AT&C losses	Provided The various schemes	Action plan to reduce AT&C losses & payback of RDSS Schemes		
5	Assets details matched with the proforma infrastructure sheets	Provided	Data Attached		
6	Verified T&D and AT&C losses (Approved With Petition)	Petition provided	Data Attached		
7	Energy Flow Diagram	Data Attached	Data Attached		
8	Subsidy category Wise (BEE Guideline proforma)	Format Provided	Data Attached in BEE Guideline proforma		
9	Verified T&D and AT&C losses	Provided	Data Attached		
10	High Loss area T&D & AT&C action plan to reduce losses	Provided	Data Attached		
11	Power Map	Provided	Data Attached		
12	Current status of Metering status at Various Voltage level of Discom	Functional & Non Functional meter details provided	100 % metered (operational)		
13	Status of default meter (non-functional meters)	Provided	Data Attached		
14	Quarter Wise report	Provided	Data Attached		
15	High Loss area T&D & AT&C action plan to reduce losses	Provided	Data Attached		

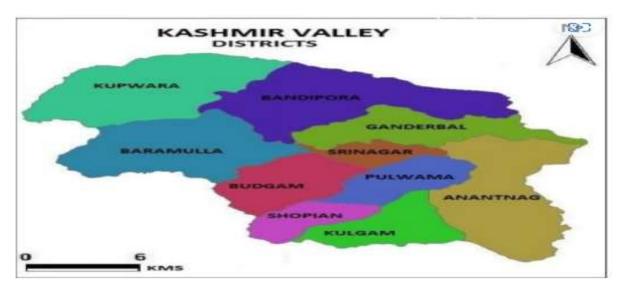
Annexure XI - Brief Description of Unit

Kashmir Power Distribution Corporation Limited (KPDCL) – a state-owned Power Distribution Utility. KPDCL has the privilege of empowering millions of people by supplying electricity in their homes as well as to places where they do all kinds of activities – agricultural (or allied), commercial, industrial & other. KPDCL has a consumer base of more than Eleven Lakh consumers spread over 10 districts of Kashmir region. The Company, headquartered at Jehangir Chowk, Srinagar, functions with 06 Circles, 19 Divisions and 67 Sub-divisions. KPDCL has a unique mix of consumers i.e. on one hand it caters to industrial consumers alongside urban areas and on the other it caters to agricultural consumers, scattered tribal & forest area consumers. Thus the expansive operational area and motley consumer mix sets KPDCL apart from private utilities which usually cater only to urban landscapes. In a bid to provide its valued consumers with quality power supply, the Company undertakes various infrastructure revamping and technical upgradation programs on continual basis like laying of underground cables and installations of RMUs, creation of new feeders and bifurcation of existing feeders, erection of new sub-stations, creation of new transformer centres, etc. The consumer centric initiatives include dedicated fault restoration centers at every sub-division, 24 x 7 centralized Customer Care Centre at Bemina, Srinagar and a range of services available online on KPDCL Website and Mobile Application. In addition, KPDCL also hears and redresses consumer grievances through public fora regularly.

The Purchase energy by KPDCL for the customer is **11124.05 MU**, the monthly consumption per customer stands at **373.64 KWH/Month**. KPDCL caters to area spread in 6 circles, 19 Division.

Pursuant to direction from Government of J&K for reorganization of the power sector in the state, J&K Power Development Department was unbundled into separate Companies with functional responsibilities for generation, transmission, distribution and trading of electricity with complete autonomous operations.

Accordingly, the Distribution undertakings and functions of the Kashmir region of the erstwhile JKPDD stand transferred to and vested in Kashmir Power Distribution Corporation Limited. The corporation was incorporated on 30th October, 2019, primarily to carry out distribution of electricity to retail and bulk consumers. The Company is engaged in distribution of electricity in 10 districts namely Srinagar, Ganderbal, Baramulla, Anantnag, Budgam, Pulwama, Shopian, Kupwara, Kulgam & Bandipora.



List of Parameters arrived through calculation or formulae with list of documents as source of data

Ideally, reduction of technical and commercial losses should be the parameter for evaluation of performance of Discom sector. However, the technical losses of the Discoms are not available and it involves a cumbersome process to calculate the technical losses, which varies based on various factors like loading pattern etc.

Now, only the T&D losses and AT&C losses are available as the performance parameter for achieving energy efficiency by DISCOMs.

It was decided that out of the two parameters, T&D loss parameter seems to be appropriate parameter which reflects energy savings to a greater extent as compared to AT&C losses

Table 43: Formulas used to derive the parameters

Parameter	Formula	Data Source
AT&C Losses	{1- (Billing Efficiency x Collection Efficiency)} x 100	
T& D Losses	{1- (Total energy Billed/ Total energy Input in the system)} x 100	
Billing efficiency	Total unit Billed/ Total unit Inputs Collection efficiency	
Collection efficiency	Revenue collected / Amount Billed	

Annexure XII - Detailed Formats

General Information

	Ge	eneral Information			
1	Name of the DISCOM	KASHMIR POW	ER DISTRIBUTION LIN	MITED	
2	i) Year of Establishment		2020	10.7.800	
	ii) Government/Public/Private		Government		
3	DISCOM's Contact details & Address			1	
i	City/Town/Village	Exhibition Ground Op	posite High Court, Jehn	agir Chowk	
ii	District	Srinagar			
iii	State	J&K	Pin	190001	
iv	Telephone	0194-2479836	Fax	0194-245217	
4	Registered Office			0171210217	
i	Company's Chief Executive Name	Mr. Mah	mood A Shah (KAS)		
ii	Designation		naging Director		
iii	Address		posite High Court, Jehn	agir Chowk	
iv	City/Town/Village	Srinagar	P.O.	The state of the s	
V	District		Srinagar		
vi	State	J&K	Pin	190001	
vii	Telephone	0194-2479836	Fax	0194-2452173	
5	Nodal Officer Details*	Control of the Contro	Wante - Total	WANT WHOMAT	
i	Nodal Officer Name (Designated at DISCOM's)	Ms. Aac	quib Sultan W Deva		
ii	Designation	Chief Er	igineer (D), KPDCL		
iii	Address	Exhibition Ground Opp		agir Chowk	
iv	City/Town/Village	Srinagar	P.O.		
v	District		10077		
vi	State	J&K	Pin	190001	
vii	Telephone	0194-2452001	Fax	0194-2453863	
6	Energy Manager Details*				
i	Name	Er.	Shabir A Khan		
ii	Designation	CEO, IT&C Division, KPDCL		1	
iii	EA/EM Registration No.				
iv	Telephone		Fax		
v	Mobile	9419424639 E-mail ID	shabirkhanik@	gmail.com	
7	Period of Information	1			
	Year of (FY) information including Date and Month (Start & End)	April 2	023 - March 2024		

Summery Sheet

1	Period of Information Year of (FY) information including Date and Month (Start & End)	April 202	13 - March 2024
2	Technical Details	-	
(a)	Energy Input Details		
(1)	Input Energy Purchase (From Generation Source)	Million kwh	11124.05
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	10841.30
)H)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	5205.55
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	5835.75
530	The state of the s	%	51.98%
	Collection Efficiency	%	123.61%
(c)	Aggregate Technical & Commercial Loss	%	40.65%

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Name of Energy Manager*:

Authorised Signatory and Seal

Name of Authorised Signatury Name of the DISCOM: Full Address:

> Chief Engineer (Distribution) KPDCI

> > 91

Infrastructure Details

1	Parameters	Tirtal.	Covered during in	Verified by Auditor in Samply Charle	Ramarks Source of
J	Number of circles	1	- Perilli		etota)
8	Number of divisions	19			
44	Number of sub-divisions	67			
W	Number of Feedors	898.2			
*	Number of DTs	A0779			
W	Number of consumers	1161009			
1	Parameters	60kV and above	334V	11/3260	17
6.5	Number of conventional metered consumers	u .	880	19654	130522
H.	Number of consumers with 'snart' meters	0			254736
п	Number of consumers with 'enart prepaid' meters	0	8		54327
N.	Number of consumers with 'AMR' meters		- 0	.0	
w.	Number of consumers with 'non-breat prepard' meters	0	0	0	
W.	Number of unmatured consumers	B	0.	D	701279
wit	Number of total consumers	0	980	19654	1140974
b.i.	Number of convernionally metered Distribution - Transformers	0	0	0	n
40	Number of DTs with communicable maters Number of unmetored DTs	0	0	0	0
	Number of total Transformers	2	- 0	40779	0
	Number of netword feeders	0	- 0	40779	
	Number of feeders with communicable meters		180	879	
		D .	0	340	0
	Number of unmotored feeders Number of total feeders	0	. 0	0	0
	The state of the s		180	1218	0
et.	Line length (at kin)	0	2366.69	20265	47689
	Langth of Aurial Bunched Cables	Line and the state of the state	6038		
	Length of Underground Cables	N -	137.25		

80	Voltage level	Particulars	MU	Reference	Hemerica (Source :
	1	Long Term Conventional		Includes input energy for franchises	(futa)
		Medium Conventional		recuses organ energy to: mancheses.	
		Short Term Conventional			
		Earsking			
		Long-Term Renowable energy			
		Mirdrum and Short-Term RE		Particular annual from Maria Company	
1	66XV and above	Captive, opon access input		Includes power from Islateral/ PK/ DEEP Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchises.	
		Sale of surplus power			
		Quantum of inter-state transmission loss		As confirmed by SLDC, RLDC etc.	
		Fower procured from Inter-state sources	0	Based on data from Form 5	
_		Fower at state transmission boundary	0	The state of the s	
		Long-Term Conventional			
		Medium Conventional			
		Short Term Conventional			_
		Banking			
	334V	Long-Term Renewable energy	10704.83		
		Medium and Short-Term Rif.	1019133		
		Captive, open access input	_		
		Sale of surplus power	_		
		Quantum of intra-state transmission loss	0.00		
		Power procured from intra-state sources	20704.83		
H.	Lance Control of the	Input in DISCOM wires network			
V .	33 kV	Renewalsie Energy Procurement	10704.63		
	100	Small capacity conventional/ biomass/ hydro plants			
_		Procurement	136.47		
,	11 kV	Captive, open occess input			
-	117.60	Annewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro-plants Procurement			
-		Sales Migration Input			
1	LT	Renewable Energy Procurement			
-		Sales Migration Input			
i.		Energy Embedded within DISCOM wires network	136.47		
		Total Energy Available/ Input	10,841.30		

Voltage Invol	Energy Sales Particulars	MU	Reference
	DISCOM' consumers	1098.24	Include sales to consumers in franchisee areas, unmertanel consumers
	Demand from open access, captive		Non DISCOM's sales
LT Level	Embedded generation used at LT level		Demand from embedded generation at LT level
	Sale at LT level	3898.24	
	Quantum of LT level losses	5594.05	
	Energy Input at LT level	5492.29	
	DISCOM comunitys	884.01	Include sales to consumers in franchisee areas, unmetared consumers
	Demand from open access, captive		Non DISCOM's rates
11 W Level	Embedded generation at 11 kV level used		Demand from embedded garwaratan at 11kV level
	Sales at 11 kV lovel	834.01	
	Quantum of Louis et 11 kV	41.70	
	Energy input at 13 kV level	875.71	
	DISCOM' consumers	473.33	Include sales to consumers in franchised areas, unmetered consumers
ľ	Demand from open access, captive		Non DISCOM's sales
\$3 kV Level	Embedded generation at 53 kV or below level	136.47	This is DISCOM and OA dominal met via energy generated at same voltage level
	Sales at 33 kV lovel	473.31	governous at agree votage level
	Quantum of Louis at 33 KV	0.00	
	Energy input at 33kV Level	473.31	
	DISCOM consumers		Include sales to consumers in franchisee areas, unmetered consumers
	Demand from open access, captive		Non DISCOM's sales
> 38 kV	Cross border sale of energy		
	Sale to other DISCOMs		
	Banking		
	Energy input at > 33kV Level		
	Sales at 66kV and above (EHV)	0.00	
	Total Energy Requirement	10841.30	
	Total Energy Sales	5205.55	



	1	Energy Accoun	ting Summary		
M	DISCOM	Imput (In MU)	Sale Da MIJ)	Lines On MUS	Lote N
1	LT	9492.29	3895.24	5584.05	58.93N
- 1	11 KV	875.71	834.01	41.70	4.76%
- 60	33 kv	473.31	673.31	0.00	0.00%
iv	≥ 33 kv				Usua
-	Open Access, Captive	input (in MU)	Sain (in MU)	Lones (In MAZ)	
- 1	LY		- Children Chil	10,000	
. 10	11 fv				
16	33 ky				_
Tir	> 33 ky				

	Loss Estimation for DISCOM
T&D loss	5,636
D loss	5,636
T&D loss (%)	51.98%
D loss (%)	51.98%

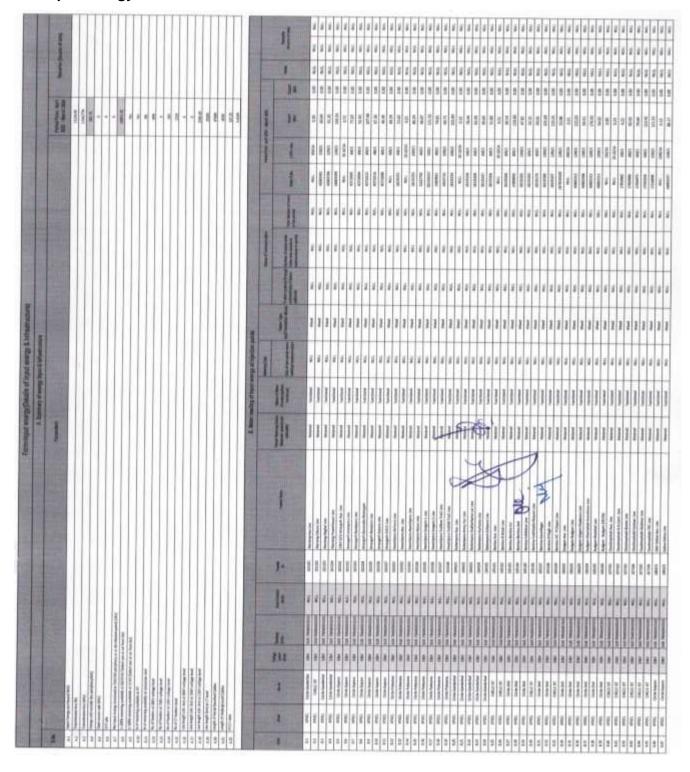


Division wise losses

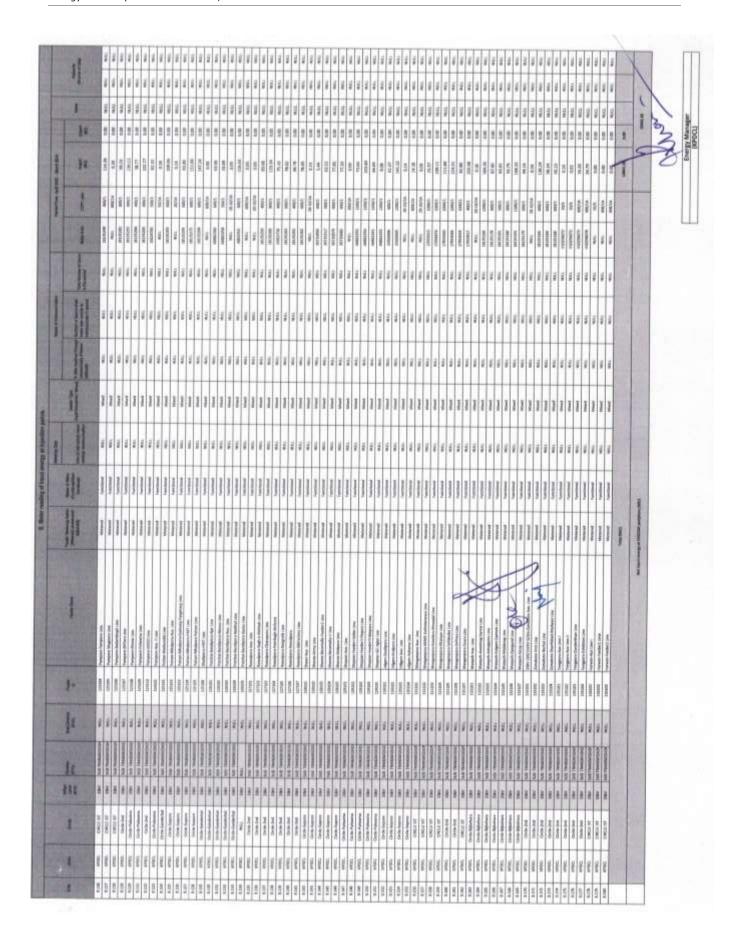
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	1z	Distance of	1		to beautiful	III Thermother						-					1	-		S STATE OF THE PERSON NAMED IN					-			A. (mar) at 15 (a)	-	A Thermoon	of leasured in		and and and and		Total Control	The contract of	Townson, or		0000000		-	Tonas Contraction of the last	Name of the last	Name and Address of the Owner, where	HOMES !	Distance of	Chamberloon C	(Newspaper)	The Party of	-	-	The Sanction	Name and Address of the Owner, where	Newtoning I	(Assessment)	(Assessment)	Negocited	Seminary.	The same upon	(American)	(Assessed)	Spendonski,	Name of the last	Totalement	Separate	- September	-	
	111	100	_	-	-	-			-					-		-	1	-	-	1	-	-		-	-		#	4	ŧ	-			-	4				1		1	-	and the	100	Site and	100	100	H.	*	A	* 1	100	-		-	-	1	-	-	*	100 100	San San	克 雅	100	2	The sale	2	-	
	1	Authorities (Con Assessed	Title Assessment	20th Names	Grab Assesses	Strike Patrones.	Section 2	Collectuation	200.000	1000	1		-		100000	Order Seemanhal	Con-Louising	(managed)	Deb-to-Belle	20000	ALC: NO		1	1		117500	10000	100	0.00	(honespeed		Distributes	-	-	-	-	-		The same of	General	Gerta-Halaman	200-februs	Confidence.	Constitution of		Des Santon	-	200		and the	(market	Suitable	DOM:NO	-	Sold-layer	(hether)	months about	Sein-Appear	Dribertabano	Dishiner	Straige	00909	200.00	Grib-Asimena	Distribution .	Distance.	
1000	1	9481	Ľ	(SMC)	2000	2000	(See	100	-	-	-		1	1	- Cape	100	100	-	-	1000	2000	100	-	-				1	-	-	1		1		-	-	1	1		1	200	0000	2000	- Sales	2000	2000	- Silver	30	1	1	- Name	2000	20,00	- Table	1000	- Opposite	1000	1000	1000	ting.	2868	2000	19690	THE STATE OF	-	Series.	100	
	1	3 3	83	Betz	812	200	**	84	1	-	1	1	2	1	111	=	100	2	2	1	1	2		100									5		1	1	1	1	3	2	2		2	919	100	88	2	=	:	1	:	and a	Ħ	100	#	110	111	ij	10	1		610	111	iii +	11	11	100	



Details of Received Sources

	100000	PC CHARLESON III.	Transmission Pariobery (Da	mann)			
Name of Generalist Station	Generation Capacity (in MW)	Type of Station Generation (Bused: Solid (Caul Ligative Liquid Caul stir binness.	AND DESCRIPTIONS	Type of Grid (Intra- metwinter-state)	Paint of Connection (POC) Lase	Voltage Level (At input)	Remarks (Since o
	111-111	hegassej/Others)	- CO.	10/1/17/11	MIL	1 4 4 4 4	, market
INGRAULI	2000	Coal	alted section appropriate as per policy of	ander .			
IIHANO-1	1000	TOTAL CONTRACTOR OF THE PARTY O	25 years	-		100	18-02-2025
IIHAND-2	1000	Cnad	months and the second			-	-
HAND-3	1000	1	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			*****	18-02-2025
INCHAR-I	420			Transaction of the last of the		4.04	18-02-2025
INCHAR-II	420	Coal	700				18-02-2025
INCHAR-HI	210	Coal		1000			26-05-2028
INCHAR-IV	500		The Contract of the Contract o	-			-
NTA [6]	419	Gas		1000			16-05-2037
URIYA (II)	663	Ges					17-02-2015
ADRI (G)	830	Gas				_	17-02-2015
NAUAR	1500	Coal	Chief Thirty woman or a control of the control of t				
ADRI STAGE-II	980	Coal		TO SECURITION OF THE PERSON OF			
OLDAM	800	Hydro		100			11-11-2056
NGRAULI SHP	8						11.11.5030
andaTPS	1320			-			26-11-2035
IEM.	1320						30-11-2035
ALAL	690			1000			31.03.2030
PUR	94						31.03.20JB
HEMERA)	540	112277222	The state of the s	1505			30.04.2029
HEMERA 2	300		The state of the s	isas			30.03.2039
HEMEKA 3	281	Hydra	CONTRACTOR OF THE PARTY.	1000			27.92.30.22
81	480	TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	the state of the s	State X	1		31.05.2032
112	240	Hydro	Control of the Contro	The second secon			
HAULIGANGA :	280	Hydra	15 years	esgs X	N		16.10.2036
UL HASTI	190			State	- 1		06.04.2042
	INGRAULI IIHAND-3 IIH					State Stat	Act Indepted Ind

S.Nu.	Name of Generation Studion	Generation Capacity (to NEW)	Type of Station Generation (Marris-Statid (Coat Ligates/Unjaid Goo'fleares after (Marris- Degrees/Othern)	. (42)	Type of Cell (lettre- cists/Inter-state)	Print of Connection (PGC) Loss ME	Vedtage Level (Hemerke (Henrye of date)
27	SEWA-2	120	Hydro	COD (24-07-2010)	State			25.07.2045
28	PARBATI-III	520	Hydro	COD (05-06-2014) upto 05-08	elsG5			20010000
29	KISHANGANGA	830	Hydro	5 years	15G5			11-04-2010
30	Wimmo Bazgo	45	Hydro	35 years	State			25-10-2040
31	Chutak	44	Hydro	35 years	State			25-10-2040
32	NAPS	440			15G5			04-08-2020
22	AAPS-III	440	Nuclear		1965			04-08-2020
34	RAPS-C # SIGE	440	Nuclear	15 years	ISGs			27-06-2022
35	V-IHAKHARI:	1500	Hydro	came into force w.a.f	1565			17.05.2004
36	RAMPSIR.	412.02	Hydro		isas			18-02-2049
37	PROCA:	1600			ISGS			Sept 1998
38	04.GN-1	840	Coal		ISGS			26-05-2028
39	CHLGN-2	1500	Coul	1,547311.05	tsos			14-10-2028
40	TLOHII	1,000			1505			01-09-1998
41	MENA-6	250	Coel		isas			-
42	TEHRI	1000	Hydro		15GS			25-08-2039
43	TOTESHWAR	400	7 9317.001	PSP PS STATE OF THE PSP	1505			24-11-2045
44	TALA	1030	Hydro		1505			24 22 20
45	Raghfiar HEP-I	450	Hydra		State		220	12-12-2010
46	Saghlar HEP-H	450		17/10/2007	State		-	26-08-2047
47	LIHP	105			State		-	25-04-2015
48	USH(P-)	22.5	Hydro		State			25-04-2015
49	I/SHIF-II	105			State			15-01-7016
			- ON SHEET					
				201	%	de		

					B. Embed	ded Ga	nerati	on in DISCO	OM Are	8						
Shu	Name of Generalizer Station	Generatio o Capacity (In WWI)	Tytpe of Batton (Generation Social Social/Social/Or (Manawable/Or thers)	Type of Contract	Type of Unit	Valtage Level (ICH)	Direction (MW)	Received at Circle (EVA)	Reseived of Choic (to MLC)	Lovel Lovel Lovel (MW)	Received at Obvision Level (30Va)	Perceived at Chalaton Lavel (in NEU)	Sub- Division Larest Load (NTM)	Automod at Sub- Division Level (RVA)	Received at Side Statistion Larvel (in MU)	Remarks (Source of data)
300001	Athwatso PH 10WW	1.0	Renewable	25 years contract	Ferrewable Source	HV	NULL	Cicle- Gerderbal	37.25	NULL	SUB TRANSMISSION DIVISION GANDERBAL	37.25	NULL	NULL.	37.25	SLDC
200002	Baltykulan PH SMW	3	Renewable	25 years contract.	Fanewable Source	3367/	NULL	Dicle- Ganderbal	2.05	MULL	SUB TRANSMISSION ON/SION GANDERBAL	9.66	MULL	NULL	1.66	SLDC
200003	Brancor PH 7.5MW	7.5	Reseable	25 years contract	Renewable Source	300	NULL	Orcio-2nd	20.71	NULL	SUB TRANSMISSION DEVISION 2ND	20.21	NULL	NULL	20.21	SLOC
200004	Drung Tangmung 50MW	10	Renewable	25 years contract.	Renewable Source	3300	NOLL	Circle-Separe	20.76	MULL	SUB TRANSMISSION DIVISION SCHOOL	20.76	NULL	NULL.	30.76	Noc
200005	GANDERBAL PH 10MW	39	Renewable	25 years contract	Renewable Source	3317	MULL	Circle- Ganderbai	19.75	NULL	SUB TRANSMISSION DIVISION GANGERBAL	19.75	NULL	WLLL	39.75	SUDC
200006	Ichioo Kokennag SMW	15	Renewable	25 years contract	Renewable Source	3307	MAL	Circle-Bijbehera	11.17	NUL	SUB TRANSMISSION DIVISION BUBEHARA	13.12	NULL	NULL	33.12	SLOC
200067	Karnah PH 2MW	2	Ronovalnia	25 years contract	Annewable Source	33KV	MUII.	Orsie-Sopore	7.38	NULL	SUB TRANSMISSION DIVISION SOPORE	7.86	MULL	MAL	7.36	Sibc
200008	Patalgam PH 4.SMW	4.5	Rossonable	25 years contract	Renewable Source	3807	NULL	Orde-8/betwee	3.52	MULL	SUB TRANSMISSION DEVENON BUBEHARA	3.52	NOLL	NUL	3.52	SLDC
200009	Rayil 2MW	2	Picronable	25 years contract	Renewable Source	3387	NULL	Grole- Gasderbal	4.84	MILL	SUB TRANSMISSION DIVISION GANDERBAL	4.84	MAL	NULL	4.84	SLDC

Energy Manager (KPDCL)

Details of Consumers

		(Details	(Details of Consumers)			
		Summs	Summary of Energy			
		Period From Ap	Period From April 2023 - March 2024	2024		
S.No	Type of Consumers	Category of Consumers (EHT/HT/LT/Others)	Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1 Residential		5	ь	963586	3508.76	
2 Agricultural		TI.	ū	EE	4.10	
3 Agricultural		노	UIN	500	45.68	
4 Agricultural		PHT	331/	74	32.07	
5 Commercial/Industrial-LT	ustraktī	5	17	17453	297.04	
6 Commercial/Industrial-LT	ustral-LT	¥	tico	34146	365.59	
7 Commercial/Industrial-LT	T)-letteu	н	3307	124	5.99	
8 Commercial/Industrial-HT	ustrialett	¥	1100	38	145.92	
9 Commercial/Industrial-HT	THIRDS	H	3307	10	276.80	
10 Others		TI.	11	3152	88.34	
11 Others		ħ	UII	4343	276.83	State/Central Govt Dept, Street Lighting, LT PHE, HT PHE, Railway
12 Others		五	3317	157	158.44	Traction, EV
Tetal				1161008	5205.55	

Details of Feeder Levels

В			QHH!	500	180			(Details of Feeder-wise losses)	21-10-00	103		100	DICT	IIIc		The Real Property lies
В		7						Period From April 2023 - March 2024								
	1		100			I E SECTION	la.				1	1000		-		-
723	a	赆	NAMESON	Activité Disco	Interestation.		-20		Sportfelde []	Total bear	-	Neder	No.	1		530 tonal
EN.	H	-	3100.3	(Mark)	hat	New of the Station	Testor Casa/EE	Metros	Markey States Spring	-	Hele (Ital	Committee	Spanse	Wiss	Alkien	Brook
Ш	я				NOT 10	Daniel Control	500		buffee.	AM(MA/30	181	Select.	SHM2		-	Account limit
H	1	Tr.	Deleta	IN FRANCISCO	480.000	mayor			1				1100			Test (ME) (ME)
2		da.	Driefa	DIT (BASKIT SACK)	DEXX 804	SANSA SAAN		FI NE SHOR	Most	JUE	1941	1.0	18	311	529	18 700
	1		Driete	DILEBERT BACK	MRN/MON.	SISRITIACH	+	SASANT SAGA ISSUE / gargethead	West	Alt	(4)	344	600	1.29	0,20	18. 80.
	1		Drield	20 (BASKIT BASK)	DESCRIPTION	SIGNTINGS		3 MM/JMA	Mise:	AIR AIR	1101 544	16	500	120	3.5	294 MILL
			Debit Debit	20 (BISKET MO); 20 (BISKET BAD);	DANT	HN		MARKE	Mod	201	1184	4.04	0.00	10	0.H	131 161
			Deeps	DV (BIGINT SIGN	HH	HN HN	-	F-11/Ip-Sander/Supply	West	AR	141	186	.000	181	086	381 Mai
			Orieta	DV GROWT SADIC	DUNC	BOWN		SECHOLIS FOI NOW, DAY	Mol	AH	10%	433	CRI	21.31	185	387 (4.0)
	1		9984	DV-(BIGWT BIO)	MAKE	BIOWWI.		(A.C. WARR C. DALBER)	West	AM.	11.04	132 832	183	134	18	273 JAN
			Oriest Oriest	DV-BASAT BID-1	DUACE DUACE	DANK		CATUR FOLIshmen has	Vasi	W	1.5	1.0	68	125	16	0.77 MUL 534 MUL
11	8	PEL	Grote bit	DV GAVAT NOT	DOM:	CARAN		CINTAN NO Ne Rissell CINTAN NO General Name	Med	iMD.	13	3.36	0.00	1.81	18.	03F M/L
11	0	139	Circle St.	DV-V(HARRA)	PARACIOLIX	HIS NOT		E CRenally FL	Mei	MM.	13K	18	1.01	122	LIL	(23 NO.
	- 0		0r0+34	DVV((naent)	EMSE	NOTE SACAL		Nespon II	Hel	100	3.0	AUS AUS	18	100	1.5	6.5 (6.0)
	0		Ordebs	DATE(MARKE)	SHARON MOLLA	STERMA	234	Schridgi Hyana	Wet	MI	18	2.81	138	1/5	1.0	65 NO.
	10		Orderos	DYNOVANA)	HAVE HAVE	VCD GGA	28	Self-Gold Hawhie	West	MI	382	- 271	1.00	125	1.76	639 NO.
1	- 0	700	Onlegic	2570090940	THANGUM MOULUS.	REFERA.	201	Santa Regular FS part Is Santa Regular FS part V	Med	AAR	120	100	130	111	121	ESP 960.
	0		Drie Let	DISTANCIACE	1947	HAMIN	_	Ded 11	Net Vel	AAR	11)	117	100	15.86	139	CIC NO.
	0		Dickela:	DI (MONTACH)	NOAL	(ADDIS)		Noval FC	Mod	AMK	1713	134	000	11.41	134	\$16 (AU).
	-		Ordeand	SHIDRINGH	Total Control of the	KENCHAL KENCHAL		Stry G. Mitaliok, Gwater: 41	Wret	AMP	11.11	6.11	131	18.88	141	198 901
25		700	OrdeZel	27 (SHEA 90)	C THE CASE OF THE PARTY OF THE	SHOW		Standard, Greater AT Translation FE	Viet	ARR	1819	LIS	000	UM	137	0.50 (401)
			Chirls:	25-100-0014	0404	GROW	in.	Name National John Management	Viet Viet	ARE ARE	1290	431 039	0.01	9.00	0.71 0.71	030 NGL
	10		Dicte 2nd	OV-ID-RENEW) OV-ID-RENEW(KIRCAIA	10	Natural Ratural (AMARISED) parts	Med	ARR	427	161	000	100	18	930 NAL
	y			OV-RESENT BION		CANGSIA CHUM	331	Aginni Nadal M, Jahres MADOyan a Hagani Para, Sartia Barkar Bark 1]	Wait	495	16	197	000	144	930	000 May
18	- 10	PDC:	Orașid	DV-VARADA)		DEW		Balateria, Irea Sabar III.	Mint	AR.	116	440	0.00	125	164	506 M.S.
	11		Onle-24	DV-(MONT MISH		CSESSA	_	Biotention taggir & Wayon Chave: FS	Ned Ned	AM.	11/6	490 436	101	184 4,67	(6) (4)	081 M.E.
	10		Onle 34	DV (MAKE ME)		ERSM	16	Dr. 1811 wildering Arthuran Regular's 139 Saverage Teamout Plants H. April 1	Wed	40	541	129	10	139	131	001 NUL
	- 91			DV (CHRENIAL)	MICH SALE	MIGNE HALID	28a 23a	Dr. ON's residence. Arthough Propostal R. Difference Florest M. part a Reduct field (Florest a	Med	988	13	LB	0.0	12)	1.0	031 M.E.
	30		Debile	DIVERSIONALE	NAMESAGAL	MEGHAL MALKS	Di	Routeletipets	Filed Mati	IAN	19	18	121	T))	- 131	546 N.U.
	0			DY KONTON SACK		HIGHLHAUD	16	Defail Hamilt	Red	MR.	120	186	120	10	131	C41 N.U.
	0		Ordelat Drawled	DIVIDADAS DIVIDADAS		NIGHLM60	3h	Addwi-Fi san a	fled	UM.	34%	1.0	18	1.0	18	548 N.S. 548 N.U.
	0			DAVIDNED BACK	OMMANDA.	MODERN MACIO	10	AMINIMA, Pridoco Colones Hi Maghal Massid Pili part Is	Ried	IMI	20,00	3.50	1.00	224	10	646 9411
	0			DISTORNALIAS	-	KIRA WED	lib.	Maghal Maghal 15 per u	Wed	MAR	2.0	230	130	127	1.7	CG NT.
	0			DIFFESHELY MOS		MANAMO	tii	Smit Maid, CC Hyartis	Med Med	Mill	340	234	120	136	120	E-0 NUL
	0		THE RESERVE AND ADDRESS OF THE PARTY OF THE	20 HOWERS BADE		MARKALMOID	lb .	Seria Majd, CSC Higarta	Mind	Material	529	128	136	122	W	130 MU.
	10			24 HOWE		MORA MISS		Sechiloness, PARROCOW Sees () part 6 Sechiloness, RANSCOW Sees () part 6	Med	AMR	1.00	0.11	130	128	125	1.6 501
	0		Dreit	70-SIGNT NOV	***************************************	MCCCLS		Mileson registrate (2	Mind Worl	ANR	78	101	000	AM.	III.	1.6 10.1
	17		Drivite	NAS TRANSPEC		1000.0	18	NG herst, deput-OV, Seriac Not 7;	Mod	ARE	420	434	500	131	101	536 MILL
	9			DV-(BKSWT BASH) DV-(BKSWT BASH)	E-reconstruction	MOM2		hrinday,Norti	Med	Méred	16	111	300	711	19	\$30 Mail
	ø			OV-BAGANT BADYS	Toronto and the same of the sa	MONEY.		Nebul 13 Fersiton Haal Nuhat 13 part 9	Wat	ARE	11.01	101	100	847	18	2.80 7631
	100			OV (BASANT BASH)	MONE	MIMI	-	Tempor Real Motor Space	West	AR	185	651	000	5582	0.07	1.88 NG.
	0.00			OV-BAMAT BIBH		1948		Nithin Sagh M	Miet	AR	109	4.32	000	101	161	188 NO.
	- 17			OV-BASAN BIOH DV-BASAN BIOH		MANA!		Foolie facility	Viet	ARE	100	294	òòt	909	431	001 NG
- 11	38	90.	Selection	Contract Con		HANK		MART P) Local Polinic, TAGAL P)	West	68.	100	195	000	031	10	300 (NOE.
	U			DV-BAAKTAARI	NOW	SHACHAR		Atlanti	Med	GAI Heard	1146	435 831	000	1140	0.04	50 M.S.
	100			DY (SASAY SAGE) DY (SASAY SAGE)		K		C Hospital F.C.	Mant	468	100	10	001	000	001	530 N.U. 530 N.U.
	305			modificación acida constitución de la constitución		NC NC		U Donal () E Berl ()	Rivil	100	1620	30.90	686	181	LH	ON NO.
11	9	90	Ordebit	DI HAMENO!	969964	K.	100	DM Notifined Hill part 6	Ward Ward	M	146	14	UR	687	685	594 N.U.
38				DV (SALAKT NACH		K	461	DV Resilence Higanity	Ried Ried	AMI:	186	127	18	151	[4	109 801
8				DI (BASAY) SADA DI HIDHAYNAN		K K		Prigni porti	Viet	Melonel	1735	630	4.00	1130	687	ESE (40)
81				TH GROWT MON	-	× ·	-	Dalgetr port at Nadio Galesso	Med	Manual	644	113	636	139	161	ER NO.
11	0	05.		The Control of the Co	HOWOH	MOMBO		MOM NO-RE protefue	Wed	AMI	136	107	1.0	100	858	612 (62)
EI.						SCAMBIGI	50	MARK MOREST PHIS	Mad	Messi	838	125	18	10	134	8.00 MILL 6.00 MILL
8				DE-BROWTHON DE-BROWTHON		BCAMBIO! BCAMBIO!		NOM BOTTERO	Med	W	12.	113	135	LB	130	138 (43)
it	85	00.		2.37.27.27.2		MOVED YOU		ROM Billing Sports Doeld	Mind	AMI	38	2.6	130	1.8	1.0	£50 HELL
Ø	软	00.	Dollar	DI-100MFHE	MML 3	SQ-MILITON		lighermon, ()	/ Void	AAR	323	230 E17	130	123	138	ESF HIEL
	10				and the same of th	NG-RIB-CEN	3	SMINOA ADMINISTRA	Med	AME	12.00	400	430	532	537 525	207 MILL
A						BENNA BENNA		infrar Calony FL .	Mad	ANK	142	48	000	275	256	SUL MOT
18	m	BC.		Orienta de la companya del la companya de la compan		BC-9MA		Mouns A	Mint	ARR	1.9	139	500	222	18	336 M.S.
1					HOMOH	BUSMI	-	Meuit 1	Mist Mist	AR	730	LH I	900	136	194	136 M.U.
7						DOWN.	9	381-100/4	Mad	ARR	18	15	000	001	0.75 0.01	034 M/E
8	91	10.		THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		UPCHRIQU UPCHRIQU		State of the state	Med	AHE	UA	4.0	000	11.65	881	GIT NUL
15	99	10.		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		KIH SARAJI.		Waspers FE Small Strains	Mod	All	11.0	AM	-000	1106	.041	DAS MUL
17	95	12		OV-V/OHINEM)	Manual I	ATHOMINO.		Sent M. Coats	Med Mart	AM	147	535	000	534	000	500 No.11
3	97			THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		MACHINER	ti.	K-MET	Med	88	-18.84	4/1	000	1134	031 089	CO: NUL.
60					1	HANGE		Number ()	Met	48	25.75	385	000	118	638	641 MAL
ft.	300	m.		27.21.22.22.22.22	Name and Address of the Owner, where the Owner, which is the Own	HANGE	_	Exemple National Continues (Continues Continues Con	Met	201	191	141	100	0.8	0.09	CIT NO.
0	-600	_		DE PURSUANO.	WARE .	ALBASA.		1 on Ministry, Main syllinger, Storter Manufar	Mari	AM AM	1135	28	181	180	637	641 MILL
B				7710000		KSISH	- 6	1 Der Wertellu prof Sich Sagh	Wast	Wi	28	420	18	138	£36	ESS NALL
5						ACBAN MERODONE		1 housi	Med	MI	12	4,60	188	1.00	Di.	E30 NO.1
8	100	70	Oxfolia (the state of the s	MEADON.		endagis; lahasi	Mint	MA	6.56	2/7	100	4.0	1.00	837 965.
	800	0	Driets 1	THE PROPERTY AND PARTY AND		Overe		NO Sept. 10	Med Vot	AMI	18	141	700 000	2/8	LIC	\$27 (M.S.)

1. 10 10 10 10 10 10 10		-	1		MESS.	1000		A. a. a.	wher	-		That he			100 tured	
# 195 196 19	310. 300	(vint)	Secret of Distance		See of the Gallace		Asia Sas		Next 64/04/00			lane tetrasi	Wine.	Michael	trop investory	1
B 10 10 10 10 10 10 10	8 870	Drieta	Th-Glost side	909301	2004	-	Amerika di									
Column			DV (NOAT NOT		+	_	The state of the s	-								
			The state of the s	1000			Sense H		-						-	
No. Company Depter Dep									-						1000	-
No. Section Ministry Mini		The state of the s							.MR	16					-	
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19	209	Crd+2nl	KIDON	RIDGAR	KOGA!	7	Alf-Toer	Ref.	MI	100	10	No.			-	
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28		Drife 2nd	BUIGHT	DADIM	DADON4		DOME POROSAMI ONDARA	Rec	MIR	286	374	0.00	480	436	237	NI.
25		Drib-2nd	3LDGM	DADA	DRECON	-	CONON WALLAN	Med	Mrieni	1541	311	138	1031	4.8	120	861
35		0648	ROOM	DHOM	O6000W		PO CHECON TOWN	Wed Vind	Mond	20	134	630	525	0.94	18	121
2		Driving	RODAL	DANA	04000M		NAME OF TAXABLE PARTY O	Vise	Meteod	931 1034	187 127	\$18 \$10	225 946	68)	100	100
128 /		Driving	BUGGARI	04004	DADONA		1/5.8064f	Med	Heand	11.20	101	133	531	60	100	161
(39) (36)		Debiated Debiated	OV-(MARGE)	CHAMPON.	OWNER		P. ROKERSANDALINE	Viol	ARK	134	289	1.0	381	65	10	160
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m)		Smilet	OVERABLE	OWW294	DAWPON	-	(4 Dearth Ox	Viet. Viet	ARR	10.9	881	6.00	438	132	101	85
1N X		Drield	DVNAMPIO	CHRACK	OHMAPON		ETS: ADMGRERETHIN	Viel	AR	223 230	558 181	130	134	19	19	Mil.
25 8		Onle-3nt	SUCCESA	OARAH SHADO	DIRROWELL		EMONNE	Mari	Here	11.90	191	100	19	131	100	MAL.
196 K 191 K		Gray-Fulsions Gray-3ed	PUARA BUGAN	DARK HARLY	DARRINEE	IUb	POUMACONE	Vise	Helend	18	0.78	9.00	191	6.0	-08	MIL
100 1		Only 2nd	BIOGN	(OARRE-SHELD	CMARCHES 2	125	105MAGasta	Med	Hered	25.50	633	100	31.0	107	LOI .	M.U.
199		Qr6+2nd	MIXW	CMB#1948EE	DMMINNEP		EN twe	field	Weed	48:	4.0	900	854	234		MAL.
H R	100	0191316	BOOM	(Sweet-Sweet)	DMMSWEF?	-	ET WANDRICK DIN	Ned .	Menel	175	10.	100	1/2	1.00		N.LL
E C		Ordežid	HIDOM	(DADA-SMILE)	CHIMIDWEP?		CINE	Riel Riel	Weed	180	1/8	0.00	1.0	121		NUL.
E 4		Growne	HOUSE	298619835	CHRESHIP	_	19	Red	Messel	EAR .	130	0.00	110	9.00		MAL
10 10		Ordead	THEREOF.	NUMBER	3809.04		(1)Octobroacosea (CAS)	Mag	MI	20.04	1.8	000	28	871		MIT.
20 1		Orde-Dad Orde-Dad	29 (9456) 29 (9466)	NOR NOR NOR NOR	3400 (MF		COMMONATOR TRAFFIRM MODSHAR (LM)	Med	ART	1594	620	000	204	981		NUL.
5		Orași înii	DV ATALISES	SC/1902	DHE OIL		NAME OF THE PARTY	Work	1859	111	3.80	0.01	100	000	111	MIT
20 3		Den-End	DV-KNADAGA)	NZ/HSADI	34800k	_	PLANT DAY TON THAT HAVE AND HAVE AND	Mod	ARR	13.8	4.77	0.0	922	0.0	137	NI.
12 X	100	Doubt	DV RAMAGE	H2,81840h	DH810k	101	PLICALS SHIC CHING BOX (MIT)	Mind	AME	13.65	339	CN	436	438		NLL
25 (8		Delivated	OV-KNAME)	MACHER	350	384	FL1076C, 314C2 (2009C), 600M, ppf y	Vini	ANT	085	2.7k	630	930	928 940	18	NL
20 00		Tinth-line	OV KRABASIC	NACK MIGH	INGERON.	. 18	P3.847404U00 k004.	Mod	AM.	100	101	LIF	188	631	18	TELL .
11 0		Drinted Drinted	8.00M	NOSM MISSA	OGW		OGAI	Med	Avend	1339	SME	810	AN	680	100	NU.
11 00		Donale	OVERNAME	CARRIEN	TOGAN THENDRINGS		DOMAGN .	Wed	Team	TAL	1.35	130	541	481	000	166
14. 30		District Control	OVERABILITY	OWWOII	1.13401	1881	PT MINIOCHINGM REPAGN IX MI FERNIN	Wiel	AR	HE	609	130	141	189	18	200
11 10	1309	Ordebt:	DV BARRERDY	96001 SASH	E23401	186	EPROPERTY.	Med	Apt	1.76	1/1	630	544	4.%		NE.
aí. jo		Ordetat	OV (\$66KT \$46K)	SHOWING	1.1101	18	Spring H	Viet	AM	10	186	1.00	10	£84		16%
II 0		Ordelat	SANDON MAN	SHERVISASH	1.73401		(MIN	Med	20	100	5/8 LD	100	0.00	IN III		555
31 (0		Ottolid	BUGAN	CHARLISHEE	can	113	Champers	Ward	Mend	EB	139	10	4.02	120		NU.
20 0		Growani Growani	BOSW	O4008 D4008	GNI	Th.	/LONAR pri-e	Masi	Morei	19	130	100	195	1.70		NU.
n e		0694	DA STARTANA	-	HIDD MON		TEL CARACTER (1	Mind	Helend	636	DE:	100	12	13k		NA.
11 0		Grote-Zind	DISTRIBUTE	****	XWANGE	_	IN SADER FO	Shet	MK.	166	134	000	532	10		NUL
II (6		Granani .	20 IONANO!	OXION MIGHS	ONIS SACAI		PUQUE H	Ned Ned	MI.	415	4.22 3.00	000	659	134		NUL
DI 19		Gra-Jul	DISTRIBUTION	MUNICIPAL	NAME NAME OF		DOM MORELA THE	Med	Mi	13.0	10	100	1138	E34 E35		NU.
25. W 26. W		Order2nd Order2nd	DI INISANI		OWANGE	351	285 (Spetc	Red	iMi	18	652	000	635	339	-	NA.
0 6		Dide2nd	DI-ODMEDISANI 29-IOMEDISANI	MANUAL MA	DATA SACAI	3%	SML (Speris	Ret	MI	118	125	000	1.00	5.00		WIL
3 5		Drow (Mr.	(0.0000)	DAM NAM	WAY PAGE	201	SWE - 15 parts ON, SCORDWART - 17	Met	JAH	211	3038	00	127	0.20		SUL
3 8		Drie Ini	39 (0163) 5439	-	WANTED		DESIGN 6	Red Red	AM.	344	5.79	0.01	1.10	900		501
2 0		Drok-Ind	BIDGAN		000		HAG	Red	Mond	12.12	13	68	585	215		NU
3 10		Drielle	AUDDAN		106	30	POHOL	Mint	Meternel	541	28	CER	427	007		NO.
3 N		Cros-2nd Disk-2nd	NOSAH NOSAH		996 996		50.894	Mod	Mend	236	2.71	GR	340	082	-	NLL
31 10		Drok-Day	6.00AF	191000	BAN WIE		NON PAGES	That	Mond	11.0	578	CIT	736	187		NU.
S 10	to.	District Control	0.000	TOTO THE TOT	DAY WHI		DKENION	Wed	Minst	LH	244	CBI	ill.	00	100	NU.
SP		Drie Int	S.CLAR	9,054M	SWIMING.	208t	148004 pet 6	Vint	Alexand Metanol	N.F	2.90 6.88	CIII	587	0.02		NL
ir b		Draulet	9,0568	00384	WACKE	20kr	NAME (SET A	Met	Means	M	108	1.00	EU1	639	100	42
9 10 11 10		Directors Date Inc.	9.00W	9.0944	WAS SAHE	-	E-fields	Viet	Digest	1146	146	630	755	185	141	411
E 30		Drok-3rd Drok-3rd	NLDGAM	OWNER	SAIGI SAIGI		PLNAGON .	West	Report	11.65	334	0.0	131	CAL		166
1 10		CriteInt	WORM	-	SAEDI	_	HADDS	Mint	filtered	11/6	101	1.00	10	ER .	101	NII.
ų u	DE .	Sinte-3nt	RICCOM	**************************************	HEMHOR		Missing	Med West	Read	TIR.	585	100	688	1.90		MIL.
1 0		Ordelini	MODAL		MEMORE	_	MSSM	Med	Retard	5.00 550	18	800 800	11B 129	EN EN		80.
4 10		Ordelist	NICOM NICOM		WENSON.	19	NAMES (X M)	Want	Report	29	185	1.00	10	L/I		NA.
1 10		Drok-Int Orde-Int	DIVERSIVASI		HENDIE		3HMSHAS Y	Mart	Petersi	11.0	18	100	40	677		ML.
10		0926	DI HOMENIANI		M R GINI		Halfsdages V	Med	86	455	18	100	140	135		W.U.
1 0		Grás-Zeá	DI-ODRESSAN	-	M LUN		Halfsahlpes Halfsahlpes	Meri	288	157	2.0	100	10	1/1		NO.
n je		Onlead	DINOMERROR		MILLA	-	11 QARASSA MINAZ MASE, però	Wast	EMI.	857	1U	100	in	174	福	NU.
1 0		Orde2nd	DISTRIBUTE	MISA	M. K.O.NI	-	11 JANUSCIA, MENNET MODEL SAME	Mad Mad	MI IM	10	181	10	1.77	1,3		MAL.
1 10			DISCHONAR		M. COM	28	H PRINCIPO GOL	Med	M	538	18	100	120 LW	575		MIL
2 48			DHOMENSON		MIKON		HIM, I COPIA, sati	West	M	13	10	18	100	900		NUL.
12 MA			DESCRIPTION OF THE PERSON OF T		M.E.O.NE MIGHT		FEBR/INSPER para	flet	MI.	10	18	100	600	0.00		NO.
5 10			BIDGW		MISRE		SCOX UM	Mind	Miles	13.00	335	100	566	\$11		NUL
W U			BUDGAN	Per de la companya della companya della companya de la companya della companya de	NIGH		MICH	flet	Votend	3.0	828	585	175	011	130	ATT
9 8		Onl+216	KDON	(NRM +5+HE)	tigar.		HELITOR U	Ref.	Mdesd Mdesd	1271	485	500	12	0.14		MIT
H 101		Only-byt			NGM	_	CHOPSN . V	Risk	Morei	11.86	140	000	18	0.00		SU.
9 8			SUDAN		NGM		CMSM	flat	Miteral	0.0	10	48	729	0.0		NILL NILL
E 101			SCORAN SCORAN		WEST		MAGN.	Wet	Warst	1865	10	CIE	101	611		WILL WILL
0 00			5.00AH		MIN.		LAKETOM.	Het	Warst	IIII	48	100	786	66		NL.
2 (8			8,0549		with:		succia	Med	Mirror	11.0	341	18	107	00	100	NEL.
4 10	100		6,0689	1.15.00	WALL		MANA	Wet	Mind	118	327	1.0	1298	CID		144
1 (0)			OVERHENBER)	WKIK KICK	70863.5		CANONIANUT.	Miet Vet	AVENC	/38	19	18	101	68		KE.
1 00			DANGMERMON		P. C.0901		Put Maright	Med	AR /	200	13E 433	130	1231	879 877		MAL.
	AL.	DW3H	DA KÜMELH BAĞKI		A.C.0901	115	Signise/nincou/1	Mind	ant	14.90	131	100	10.00	18		MU.
1 100	95	Ground .	DEHIMADE	MINT	PERSAGN	1	FE KAMARA NADROCHERIS DICARE									

112			100		18	BEAT LONDON	1000			150				-	
28. De	Remote Dro. (a tot)	September Chicago Series	Nemeral Salation	No. of Street	Page :	No. to	Spiles	Type of Sweeter	Restota	free:	Resilier Souther			STate Served Roops	
		100			2000		with the	ACCHILIPATE ON	HILL)	DIME	bear and 2003	Miller	141-	Attention (I Ingo: IAIL/IAI)	bests:
10 100	Orde-2rd	DV (MASAIC	WOW	mug	789	F3 ARROST part 6		1000		ME	PHYSIC		100	Management and	
10 (000)	-	BUSIN TRAIN	9.0044	PERMIT	284	F), MROSE partie	Ret	MI	7/05 8.22	1.00	500	08	128		MAL.
111 MSC		DV (RASA)) DV (RASA))	MAGE MAGE	N NO		PLINN HOLD FAMILY AND HOLD	Rid.	MI	335	11.29	300	411	ill		MU
14 (400)		DVIBASAN	MAGE	N/NO		PLESCOLONI POR	Ref	MAR	3139	38	0.00 0.00	10	131		NU.
18 MOC	Ordelad Ordelad	DNIBASADK BLOGAV	MAGE MILE	WWW	10	FOLKSI BACK, MUSTAGO	Rei	JARS .	11.0	28	100	18	538 321	-	MIL.
277 8900		DHIRSON	1904E	MADEN	_	SMM ATS LICE.	Ret	Miled	10.36	226	100	-68	0.01	-	702
IN WOO.	Ontelled	DHIRASAM	NON	MAGREN	280	PE GOOL HUMAL SHEEPINA	Hed Hed	AAR	185	101 68	101	19	131		NUL
26 990	Driving Driving	DI IRABAH DI IRABAH	SADAT SADAT	MARKETS MARK FORS		PE SBIC COMPLEY	West	AAX	146	7.9	195	14	101	7777	MU
36 (60)	Datelog	29 (94840)	SIGN	Mark You		FLOCKWILLOW TOWNSHOOK-INSIGCOOM SIGNIFICA, ITEM	Most Most	ARE	348	170	08	1.88	547	1.86	MT.
36 M60	Deleded Deleded	20-08886F	MONT	M951700-	.00	FEGOWOS, INSURANCE CO.OM	West	AUR	107	339	100	529	138		er:
39 1970	Dekard	DV NORSOLANI.	SALES MATERIAL STATES	LAYON.		REMODERON, SHAN WARRETO, DIN COLUMNAN COLOMI 12 MARNAGO.	Mest	ARK	141	-7.8	410	238	0.01		\$2.
28 (990)		DV40HENSKH	PATHEL MADE	SATURE.	_	M MANESCO	Man	AR.	5.W 12.0	101 100	6.00	42	6.0		REL .
36 W00	0663d	OV-ROPROVADA OV-RO	MINICA	LAYON.		7 Sel Marile	Vint	40.	575	111	4.00 4.00	881	£34		ML.
38 800		DVRDHEN MRT	MINICA	SWARDE.		MACHINERY II IN CANT	Mani	ÚAI.	3.6	100	130	1131	1/3	-	NE.
29 000	Ordezed	DAMESTING!	MARKEA	WARREST.		OAMMOUR SI	Mari	AM.	723	336	130	II B	LN LN		N.C.
201 MOC	Grovani Grovani	DVHDMENBON	MANUA.	DALOSE		SHAGELIL	fliet -	86	1738	141	100	11.0	18		MA.
262 (600)	0000	DY (MASA)	WWW	341230		1009AGR E CRUMOR F]	Hat	IMI	166	429	100	(1.8	1.6	-	MA.
291 (FOC)	Orbitel	DIVIDREDA BADY	ANDMED	346.536	(30)	MARIO U.N. STURES	Nac Nac	M9 M9	1581 539	167	100	10	181	-	W.II.
295 (MOX.)	Draint Driebs	DIFFEMAGE	MARINGA	342 53K		SHOE BAN FESSES	Net	Mt	5.0	339	0.00	19	IB	-	M.O.
26 1000	Drit-Set	BHOWNER	SMICE	HACING		DOTANGO H RINDOTAN ESKE PAJEN	Med	AAR AAR	H.30 U.1	140	000	£84	1.0	1.0	W.11.
26 (400)	Drok-droi Drok-droi	DE RÉMEDITAGE DE RÉMEDITAGE	SAMES.	HASS	- 366	H.W.(0,10)	Mec	ANK	9.76	189	000	482	500		NUL.
29 (950)	Detailed	DV-10HED/SAGE	WHITE WHITE	DATE:	1000	FET MELPONE LANGUAGE FET MAINMANDAL	Mad	AUX	1188	5,56	¢át	13	0.28		NUL.
90 (600)	Srestre	DV-KORESHIAGH	ASSET	9ATRE		НМДОМ	Med Med	ARR	121	1,39	488	1,07	(dil)		NUL
201 (00E) 201 (00E)	Sist-del Sist-del	SUSSAII OV NOVESVSAGN	MINUSEK	SHERE	-	TANA/HARIBE	Mad	Heint	8.22	181	133	100	48		NAL.
200 0000	D(0.04)	DV REPUBLISHED	protesses	MAIN NO	_	COMMAÇÃO parto HISMAÇÃO parto	Vied	AM	152	101	10	2.09	4.78		No.
84 (090) 88 (090)	Griebe	DV HOWEDINGS	HATERIA	V613 542*		N DATABLE	Visit	ANE Herent	18	192 331	10	525 933	534		MAL
30 (000)	0000	DY-RAMAGE DY-RAMAGE	DIMINON	SURCOR		KDZ NICALA pet b	Mard	AM.	13,60	13	110	8.35	140		SEL SEL
301 (490)	01926	OV ISMANDI	42890	SUS HACTORY		HOUSE STATE	Mari Nixel	88	135	315	830	834	48	9.67	118
RR (600)	Granite Oranize	DVIMMAN) DVIMMAN	NAME OF THE PARTY.	SULFACTORY		N.CHOPIA, serie	Naci	48	107	133	830	0.00	110		NE.
HE 600	Orbite	DYNAMA	CHANCIA	368 HC20W		N.CEROPPIE party	Med	IM	136	43	100	537	UK.		NG.
111 6007	Crastel	ILOSM	WK	ROW		HOME.	Red Red	AMI Vermi	177	58t 18	100	121	187		NL.
30 MOC	Oriedad	BLOGAN	SHILL STREET	RESIA .	-	HANGM	Red	Vessel	10	16	100	13	179		NIL.
TH 890.	Celebrat	SLOGAN	Will	HOM		1890 jan 8 1880 jan 8	Med	Week	LLN	3.00	000	621	130	480	100
35 MOS	Orean	BIOGN	MSL	MOVA		SATIONAL	Red Wat	Meteod Meteod	133	529 539	100	161	1.8		W.C.
32 1607	Drib-Dat Orde Lat	DI (DADARA)	WARE	WINGAN FOM.		Negations II	the	ASS	3622	440	000	2.9	13		M/L
20% NE	Debini	> IDHEHWY	-	DOMOTI		atjus 65 Satistications	Med Med	AME.	100	lit.	0.06	115	10		W.U.
30 1990	Detailed Detailed	DI KOMENSKI	IUSA	JOACH	28%	SIMSHIORAgens	Wed	MA	E94	289	001	18	431		MAL.
30 100	Devise	21-12-12-12-12-1	SAME TOWN	SINACTE SINACTE		FROM HOME	Med	ARE	21.36	732	101	4.56	3.44		W/L
30 990	DONN	2V-10HE3/3461	-	SWACT		1 DANKET FLAGE	Med	ARE.	11.00	10.11	LIS	5.02	033		MILL
30 (991)	Orde Septem	DV KOMEN SACK SOUR	100000000000000000000000000000000000000	SINACTI.		PAGUTHA, STATLOMACH, HE	Wel	AM	131	580	132	8.40 8.16	038		NO.L
3B- 990	Orbigum	1008	307964	AAARON AAARON	_	Liderou, Tour	Med	ARE	2.6	411	1.10	M.	166		NG1
38 (890)	Dra-Square	30'08	The second second	ARRESTA		Sec SWARPON (Med Med	AM AM	57L 680	139	CR	7.60	0.00		W.L
337 (4001)	Drivinger Drivinger	MANUE	The state of the s	SMARLU-1 SMARLU-1		LO YOMS	Med	AUX.	786	101	130	444	466		60 60
335 (8502)	Doldgov	MARKER	Professional Profession Control	BISANUA-1		MBACKSR pyris Milaport pyris	Med Med	401	58	064	130	1,07	33	100	NI.
58 (890) 531 (890)	Doin Separa Doin Separa	SMALE.		BRANCLE	299	POLI DUAL	Med	M	138	121	8.50 6.50	133	101 102		EG.
EU 4900	Date Supore	MINULA		BRM(LA)		MISANO MARI	Mel	M	5.80	384	1.00	034	10		56
H) (600)	Chile Signey	SHALLM	WWW.	SHIM/LA	动	AEjaris D	Riel End	AMI.	141	182	100	4.25 0.06	626		GE.
EN (400)	DideSigon DideSigon	BRALLIN		SANACLA!		Atsete	Red	MA.	207	10	100	0.00	127		6% 6%
136 (600)	Dide lapox	BRACLIA	THE RESERVE AND ADDRESS OF THE PARTY OF THE	SARWITY .		Choules No.	Ref	AR.	131	58	100	131	131	4.95	01.
EV 1990.	Orde Sopore	SK-SNOWIS		SAE SAYON	100	toleria III la CO	Rel	Mitmi	1.85	33k	900	0.0	100		UL.
18 MIL	Gris-Sapera Gris-Sapera	BRANCLAR		SDOM SDOM		mir VV	Mind	World	7.11	736	000	836	236		KUL
34 1990	Groe Space	piewithi	-	09005		Sarjan Salton	Miet	Mond	16	511	68	435	133	to s	10
M 9901	Girde-Sopore Girde-Sopore	BARMILLAN	WORSE.	000000	100	etens Thu	Visit Visit	Meteral	121 121	180	000	18	937		KU.
N 1990	Orde-Specie	PRINCITY.		OMMODIA OMMODISM		THEMS /	West	Wand	40	15	CIE	tit.	000		100.
34 X150	OrdeSquar	SAMULAN	NACCOM .	DHADODA	130	office/Gores NA	Viet Viet	Mond	138	215	(6)	(3)	000		MI
36 990. 36 990.	Octrident Octrident	SAMULA		CHADOSSI	155	Region (*)	Vani	More	1.0	18	CIR	2.6	5.5		ATT.
30 3750	Orderigens	HACKAS		0004 0004	100	SHIPP CONTRACTOR	Mied	Morec	131	7.0	68	434	06		NA.
34 9990	Ocklare	MACHINA	MICANA	008/(164	Mad Mad	Merec	127 1138	18	(A	28	411		Mi
100 MADE 101	Ocklaper Ocklaper			DEAN	100	TUM	Mad	Noticed	110	473 1010	6.0	188	046		ML I
III 6007	Dorsper	The state of the s		DEAN .	309	MASON.	Met	Reard	438	ATT .	100	100	(d)		81
1000	Drivingere	9: WOME	TANGAGE	ordena		r Vi Rom	Met Med	Report	120	10.	130	818	634	00 4	VLI.
35 300C	Dick-Squre Dick-Squre	SPORT		ocerna Management	381	gen-t	Had	Miles	120	18	130	68	635	0.00 N	
III (600)	Dicte Signer	The state of the s		0000,4063- 0000,4063-	101/0	rgrysti	Mad	Motorst	160	18	100	429	Út.	600 10	
314 1400	Drain-Separe	3070/6	\$200E-8	2006-4015	1075		Het Het	Motorei Motorei	5.88 8.53	180	100	E80 660	125	100 N	UE,
101 BRG.	Dicte Septor Dicte Septor			DINGAL DINGAL	12h)	AMButi	Visit	Ment	796	186	100	607	171	100 N	
200 62	Dick Signs	BARACLIA	MARKULAN	204084		A YER pita NWES GALLER	Mint	Mdmil	167	TH.	000	600	1.0	10 N	ti.
30 (600)	Orde Septy	MYCOWN		THROA.		Selection Selection (Control of Control of C	Mint Met	Ment	131	18	000	438	388 381	IJE N	

			1	The state of the s			Teor of Presiden (Type of Seaso		Teste	200	18		Shahmid	
In.	X .	(rM)	(ASA)	To MAX	Sen d'Actate	Code Code Code Code Code Code Code Code	and port provide my	MANAMATE MANAMATE MANAMATER MANAMATE	Production and Co	(maryton (mal)	Name and Street, a	-	atking	Small Automobile of Instruction	
10		CicleSpore	MONIN	HOUNDA	ORIGINALIA	30h Dignula parti	Ref	Monit	191	1,31	120	- EN	3.65	686	MIL.
10		Dick-lopers Dick-lopers	SUPRAN.	HADNAM	SEGULA SEGULA	380 Dignile prix	Mad	Motori	10.00	4.5	100	1.8	216		MIL
Ni Ni		Distrigger	XIPNEL.	EU/NIA	DEGRELA	33 Nejani 35 Nejani	field	Water	1,H	18	100	18	0.00		100
101		Dick-Soore	HISTORIA	HODAW.	SHOREA	ISS Negrams ISS Associate	Med	Mind	10	EN.	100	16	-131		NU.
36		Dick-losers	SOPHALE.	EPWA	3600U	Na Associate	Kel	Mitted National	16	10	100	1.85	911. 949		MIL
30		Circle Squary	[8,389WE	TAGNAS	DIAME -	III Activ	Mei	West	111	123	100	18	120		161
391		Distrigion	JR,740946	DAGGE.	ELMEL	334 Bally feets	Mind	Motorati.	11.75	15	100	146	0.00		ML
19		Distributes Distributes	SA-SAGNAS SA-SAGNAS	TINGRAS	DOMES .	35 May -	Med	None	131	125	300	18	300		101
10		Dideligan	NONE	LAGE	DAACS	30 Spiritigans tree	Mind	Viteri	150	3,10	300	18	211		NL.
372		Date Sport	Kegaus	WEAR	DAMON.	20 Surgers	Wat	West	131	25	100	43	08E		N.
m		Doklane	HISTORIA	WARE	DARON	TH Larget	Med	Rend	10	132	100	135	611		MA.
IN.		Dinterlagore	10904	109961	HEPON.	MOS MOTOR-I	Mari	Report	137	14	100	122	039		NI,
16		Dide Sport	1098	HUM	HAREY	H2honu	Med	Seed.	639	III.	101	322	- 563		ME
377		Dollages	1091	HEIM	HARRY	3G)stery 3G/MOGM	Med	Tirest	31.0	486	0.00	1.78	8.5		344
19		Driellane	10/01	MITAL	HARLY	14 Texe	Missi Mest	Storet.	38	1.23	588	107	0.82		N.L.
15		Deletions	HROMA	HACKMA	HADKNA	36k Modgmant	Mest	Material Material	45k 23k	134	10	107	619		MA.
36		Drieligen	HATOMAN	WEIS	HACMA	36s Modymans	West	Union	430	135	10	18	1.9		NU.
至.		Drie kome	98000B	MADAM.	HADEMA	THE PERMITTANA FORTE	Mint	MI	130	140	(3)	2.00	158		N.L.
展		Driefigen	MACHAR	WOME.	MACHINA	36s finlessAyons	Met	iM	3.38	100	1.0	141	6.00	1.09	NUL
20		Drorsame	MONE	JAGIT .	-MOVAS	N/ H-MIDNAMA) 36 EAGIN	Med	W	118	3.23	CIT .	1.0	18	-	NU.
36		Crónisum	MACHINA	HACKINI.	HACKOR	14% Vathara Randiget &	Meet	Minet MI	834	10	13	3.87 5.30	107		NU.
*	1000	Striken	960000	HADNIN.	MOSAN	Mis 5-KOH-AWARGSMIs	Mind	AMS	136	038	120	130	134		NA.
W.		Orderiques	HACHAR	HADWIN	HACIWAA	ESI HASATA.	Met	·WI	101	00.	18	131	18		MAL.
38		Crote Segure	SV.TANSWEE	TAKSAMG	AMD DECE	30 laton	Het	Morei	7.0	136	110	331	175		NU.
30		Circle Septine Circle Septine	DI TAMBANIS DAGNISLAN	TANDANS TANADONI	HAD OLDS	EC Drigon	thei	Milest	12:07	10	130	157	1.8		RU.
100		Order Signer	MMC26	MARILAN	INC NO.	EG UNUSAGE EG MONDANI	That	AR	100	181	130	121	130		NU.
160		Orde Supon	MARKET	MARKEL JAH	100U (MG-	20/JAGRE	Net Ref	ANE	181	121	100	0.25 681	137 139		NUL.
386		Crole Septim	EPIMA	LPNAL	AH, RRIA;	29(0um)si	Med	Monei	131	12	130	451	102		NII.
394		OrdeStates	E/MANA	ILPWHA.	HARRA	27/14/04	Med	Meteral	136	4.0	100	431	340		61.
36		Drinkson.	ILPVIM .	1,7981	HARR	78 tees V	Med	Wase	184	10	100	403	14.t		WALL
91		OrdeSigoni SirbeSigoni	ILPANA IN TAIGNAIS	SUPPRIOR SECURITY	SHUMBER, KONGRACANA	THAT	Med	Wint	19	1X	100	131	1.00	000	BILL:
38		Circle Stepme	In INDANS	10KMAC	(DIGNON)	Ni lay	flet	Motoria	118	110	100	101	177		RU.
100		Scie Signer	ST. CHISMINE	TARGMANG	TOGAÇAN	36/Arabes	Wed	Wind	100	19	100	141	15		MILL
10	000	OrderSopore	ILPONA	TIEHÇAM	/INE/ON	36/9/9	West .	Mond	181	19	100	13	MI MI		WILL WILL
401		Circle Supres	ILPEAN	TIDGAY	MICKON	RE-Drokbi	West	Meand	104	23	100	48	100		100
40		OrdeRapore	LPENA.	TENCH	VINCTON	76 Copies	West	Morel	16	136	18	194	211		W.
405		Orde Squire Orde Sigone	SAMULAN	WASCON .	MER	新 · · · · · · · · · · · · · · · · · · ·	Mod	Need	12	15	100	10	4.0		KI.
40:		Drie Sapon	EPEAK.	LPHRI	WEST	38 krei 30 utors	West	Ment	1165	4.74	100	10	1.0		12.0
406		Dick Septem	ILPANA	(LFVs6)	FR/95	XV/Wasgia	Viet Viet	Reard Heard	220	429 266	100	19	131		RA.
401	000	Christ-Separe	SPENA	(LPYNIN	MISSA	STORE .	Med	Herei	16	18	0.00	16	18		REL REL
406		OctoSeptem	ILPUMA	JUNION	YEAR	Myanae	Miel	Nervi	180	349	100	1.9	104		ME
409		Ontridgen	PLINGMIN	100MBC	to El	71 Option	Moet:	Riteral	2526	531	900	2.6	234		MA.
410		Orde Sapare Unde Sapare	Pr. Holdwill	TIBOMAS	IOER IOER	27) about 27 State	Mint	(Ribert	26.34	582	900	11.11	8.11		ME.
411		Orde Sopore	ILPANA.	12700	LASSFORM SOURM	17 juged	Mari Vost	Morei	131	186	100	5.75 £9	657		N.S.
40		Ercle Segons	IUPVAA.	ILPVNIX	LASSPERA SOCIAL	178 Good Harber	Most	Merc	227	387	08	13	407		NE.
434		Circle Sopore	HARDIAN.	HADVAIA	MICHIEL PRINT	170 Magni	West	Water	730	101	0.0	135	0.00		N.E.
40		Circle Sopone	PROGRAM	MARCIAN	MUSH	SECULOS .	Mont	Ment	28	131	08	1/8	181		N.E.
455		OrderSuperer OrderSuperer	PRESIDE	MARKEDAN	MALPON	据[2·田琳	Med	Motered	154	341	68	1/5	CH .	510	N.L
425	_	Order Septim	MARCH	MONN	MONN	163/3 Datigerose SERvinus	Med	Miller	7,68	131	600	434	196		M.L.
415		Underlogone	BRANCO	DACHIAL	MONIA	34 Dari	Mad Mad	Mont	735	54E 42E	18	3.60 3.81	£49 £59	777	N.L.
48	600	Circle Segons	SPOR	32/06/	NOWFERA	185)2-H0ROM-I	Miet	Material	846	196	CIII	1.00	18	777	N.L.
41		Driebpte Colobera	SPOR	(2006)	MONTON.	Militatorios	Mont	Mitma	501	431	(8	125	139		N.U.
411		Drintogon Orintogon	MAAAAAA	MOHN.	NOWSEHIA	III)3-0004	Met	Milmid	123	0.31	LB	111	Lie		M.L.
414		Onle Sopore	MANAGER	-	FERM	18 Newstebs 18 Stranges	Mani	Mont	1286	18	0.0	180	131		NUL.
45		Orde Separa	10/06	(2008.4	MOVOM	M/mins	Med Med	Month Month	591 298	LB LB	131	1,90	18		N.U.
435	(00)	OrderSopore	3006	10/06/1	PACPER	HI best	Mant	Mitmi	1144	421	LIE	196	131		NU.
40		Direktogore	SDYON	(2006.)	NADION	HI larty	Mari	Meteral	830	181	18	1.81	120		NAL.
48		Circle-Supore Circle-Supore	58706	NON NTN	NTM NTM	16 jutin tien	Mad -	Material	3834	68	1.0	131	10		MIL
427 426		Circle Septim	10/06		NOW.	16 Seri	Med	MI	734	18	131	128	121		NUL
40		Drin Sopre	1906	a lively	HTM	3h Migraphi	Vari. Vari	Meteral Meteral	101	18	120	100	1.0		NU.
40		Orchesiopore	P. WOME.		PRTM	301a Nihalpera porto	Visit .	Monei	119	184	130	138	18		NUL NUL
411	600	Order Segons	BKK.	MIN	нля	Milaties	Mari	MR	154	125	110	16	120		MILL
484		Octa Soore	SAMOUR	MOHN.	FERM.	Military All Supra	Red	Mitret	423	485	130	138	1.8		NO.
48		Orde Separe	BANAUA	MOHIL	RAMINI NORMA		Hel	Mind	101	42	130	431	10	600	NO.
46		Dick-Sopore	SHALLIN		CHARA COMM	Ciliani Al	That	Motoric	1127	34.	130	14	18		NO
40		Dickstoon	SERVICE STATES	-	ID-Will	61 Penals 60 States	Tiel .	Mont	20	15	130	16	18		NO.
-48	600	Dick-Sopore	MANAGEMENT	WORGAN	10 MA	40 hours	Tiel.	Metrod:	X10	10	130	456	17t		NO.
482	200	Octobigore	MAMOR		WAMBO	400 Surfaces	the	Meteri	14.99	16	100	134	18		MILL
411		Octations	SHANCON	MONA	MUMMAC	40 Seinace	Ref	Veirei	3.00	13	100	107	10		MOT.
400		Onte-Sepore Onte-Sepore	BRW/UN		MUMMO MUMMO	48(4%)	Red	Ment	42.	4.8	530	\$84	1.0		961
40	vann'n	DOM: SOUT	SWANDA	44000	WWW	40 MS	Med	Miles	18	636	100	100	100		NO.
41.		Christianus	property :	****			Med	Mitrel	652	3.46	100	0.00	100	680	WL .
44	P00	Ontedisore Ontedisore	BURNALUM	MOHIL	MINIMAGE	CONTRACT CON	160-1			10.94					
41.	800 800		BARNOUAN BARNOUAN	4 days	SAUMASIO	CDMC 42 Tub Orde	Mad War	Steel	13K	128	500	10	100		NL.
41. 46. 46. 46.	80G 80G 80G	Onle Sopore Onle Sopore Dinle Sopore	BANKALLAH BANKALLAH	MOHM MAGDON	TAUMASAD TAUDHAM		Wat Wat	Next	637 738	128 127 138	908 908	EEL EEL	(II)	(10)	100
441 445 446 441 441	800 800 800 800 800	Onle-Sopore Dick-Sopore Dick-Sopore Onle-Sopore	SAMATUM SAMATUM	MOHM MAGDON MAGDON	THE STATE OF THE S	42 Trait Orbit CD Stepan CD Stepan	Wed		437	127	900	131		110	_
441 445 446 441 448 448	890G 890G 890G 890G 890G	Onle-Sopore Onde-Sopore Dinle-Sopore Onle-Sopore Onde-Sopore	BAMAJUA BAMAJUA BAMAJUA	MOHIA INAGGOTA INAGGOTA IGPOR-1	SAJAMASAO SAIGNAM SAIGNAM SAIGNAM	42 hat Order 43 haten 64 hoten 43 haten	West West Mass Mass	Rend Rend Rend Rend Rend	137 138 337 238	13 13 43	908 908 908 908	181 121 1.0	627 671 087 688	£36) £36)	NE.
441 445 446 441 441	870G 870G 870G 870G 870G 870G	Onle-Sopore Dick-Sopore Dick-Sopore Onle-Sopore	SAMATUM SAMATUM	MOHIA INAGGOTA INAGGOTA IGPOR-1	THE STATE OF THE S	42 Trait Orbit CD Stepan CD Stepan	Wei Wei Wei	Rend Rend Rend	137 238 338	137 138 131	001 001 001	131	627 671 061	130) 130) 130) 130)	MEL MEL MEL

12.		Number (190)	hove a time	Dered & ht-free	Same of the Station	-		Typi d Name (Torritorie mont	Antreas	here	Name :			Nicelands Stage	1145
13		PAL	PMI	244		Delt		stiped milestone	41	esti	James Day	Nebrani (Intit)	Minn	230mm	Automobility (6 Septembries)	
40 (0		Drie Saum Drie Saum	DOUR TOWN	10995 H	900		F webtor Drig	Med	Mond	121	128	CAS	100	135	100	ME
44 85		Droir Square	SACYALA .	10906 il	SEM .		Depart	Mad	Metend	4.85	228	630	2,93	155	12	165
46 (6)		Drieligen	DOM	3093E4	MENO	420s	Roberturi s Roberturi s	Wint	Meteral	1.8	121	(3)	230	1,00	6.00	166
48 (6		Drielium	SAMULE:	MMILLAN	363		1 FT FAT PIGARY	Med	Milmi	1137	336	1.0	1.00	132		MG.
-III 10		Diskum	WARLE	SAMOLAN	HEN	-	1129w	Art	Mitted	56) 640	28	EB CB	18	17.		M.C.
411 10	60.	Date lagons	SAMOLIN	MANUTAL	903		3 Hamouron	West	Meternal Meternal	65	2.05 5.34	GB - GB	0.00	19		Mg.
48 18		Diselapore	3040H	Affai	SHOPOM		(Salson	Med	Mond	100	18	130	100	ERL		MIL
報的		Dritt-Supre	5040H	ACTOR	PAGHOM.	429	Swatt	West	Want	43	2.99	1.00	201	100		MA.
40 10		Onte-Sente full	DVSM6A.	LMSK	INGHOM.	176	Depts	Med	Metred	147	18	6.50	£14	1.0		N.L
40 10		Diseason	90/08E	WITH	SINGHOA.	4	ESM Lifege	Med	Morei	110	2.84	130	4.0	138		NO.
40 10		Trole layon	NOOR	ACTIW	INGWOM		(BUE)	Meet	Morec	4.92	1.07	1.00	1.68	180		No.
64 (8)		Driekson Net from	2008	5070IB /	300%		Cerpot	Wed	AME	1187	48.	100	181	1.11		300
46 (0		Drok-Sopera Orde-Sopera	2000	504046-1 504046-1	300001		now her	Miset	ARK	198	1.44	130	LU	146	130	N.C.
40 (6)		Ordelagon	DIPON	1000E	20104E-1		HEBITA	Med	ANE	1.0	48	1.00	0.00	139	10.	76.0.
40 0		Ordelapore	WK	20/061	(200E)	-	ER DISTRUC	Mint	ARE	7.80	5.8	100	141	III	1.0	NU.
45 IN		Orde-laters	SPORE	32706-1	12POK-1		Ends Der I	Want	finered	18	141	100	18	041		WU.
49 100		Ordedopore	SIPON	59061	10051		ER COM /	Mart	800	138	1.10	100	100	536.		NU.
4% 100		Girde layers	(390%)	IDF045-1	20/0001		10 tons o	Visit	Report	19	UN	100	10	4,11		NU.
47 00	90:	Gride-Season	(0704)	1290834	527064		Figo	Med	Tens	4.80	19	100	LH	11.0		NO.
C1 (0)		Orde-Season	(0.00)	50064	5070834		Anaph	Med	40R	19.8i 7.8k	18	100	181	48		AUL
£3. 10		Gros-Separa	PLPHAIA.	786946	TVACONIX		legite	Hint	Reset	111	4.8	300	19	503		AU.
45 100		Griebwen	EUPRIAN.	TWGHA.	TWOMA		16	Fied	Name :	181	1F	100	-	59		MIL
£1 (0)		Ordelgon	HIPMAN	7M0064	MONE	-	97 MC (minute testinal)	Hed	Material	538	1.0	100	197	08		NU.
67 300		Oxid-layers	KOWAN.	TMICHIE	DAKOHAL		0'5 Wild bidsare facil	Marel	Material	781	187	100	586	069		
41 00		Oldelepen	TIPMM	TMGHd .	DAGNA		Galter	Hed	Mond	707	19	100	47	09	100	WILL.
179 (0)		Ordeligion	SI, OVOILAGE	DAGRAS	TANDANS	- 4	(N) Natus	Ket	Minut	1141	430	400	3.0	CN		
40 (0)		October	SR, FWSHALL	TAGRAS	TMONE	- 4	Brun	Ref	Mind	101	430	400	13	till		REL
41. 00		Oxide Regions	tr, (Mewas	TMERMS	DMONNE		loging	Rad	Melmel	13	130	48	59	6N		ALL:
41 (0)		Onto layers	SPLEMBANG	TAGRAG	TMENNE		Sping	Med	Menni	1.01	130	- 488	128	CIN		NII.
40 (0)		Dorlages	CPVIN	TEIGM	TREE CIPANA		Sugar,	Ried	Maesi	160	110	18	- 511	636	7.0	800
44 (0)		Dick-Squire	Greats.	CPNA.	THE GRAM.		TuRet	Red	Molered	191	138	tm	536	685		WILL
48. 700		Orleague	CPRIOR	EJFRAM.	THERDMAN		SENE MEROSON	Rist	Minni	136	28	436	110	6%		911
485 850		Dorbust	CIVIN	TIS-GW	THE GPANA		Made Salmin	Vive	Wand	122	1.8	1.0	130	0.6		WELL .
		Dick Square Clock Square	CPNN.	CPARE.	THICK CPANA) HOODEANGHAI	Mind	AATE	421	134	100	215	1.0		NG.
48 00		Orde-Septer Dick-Septer	1,7960 1,7960	TOGW	THER CPANA		Paten	Med	ANR	14	68	138	630	6.00	-	100
48 00 48 00		Donigon	SACUMS	THICK	TEGN		(2) risms	Med	. Worst	11.00	4.8	5.0	- 505	574	(3)	165
40 00		Drivingen	HADAM		VUSAR VUSAR	_	Delan	Mad	Mone	131	1,11	18	236	6,50.	416	NA.
8E 85		Dreison	KPMIN	7.00	Total Control Control	483	Next pri i	Mied	Waref.	181	141	1.8	588	4.85	LB	166
# 10		DriteSquire	4ACMM	HACKING .	VLSM	4th	Sikonipeta	Wed	Morre	LE	15	1.0	200	630	.00	56.
44 100		Distribution	MARKER	WWGCGNA	WIGORN.		Miguri Megan	Wes	Morsi	4.55	till	1.00	100	LN		NU.
46.00		Dub-layers	MANULAI	WHICOSA .	VISCON		Geld	Mint	Mint	10	18	1.00	501	4.75		166
186 (470	00.	Disk Squee	SAMALIE	WASCODA	WAGCORA		Элере	Mied	Morec	156	- 基础	1.0	47	136		Nã.
41 (0)	93.	Donkpun	SARAMULIE	WHIDDIN	WAGOSHA		Magnos	Meet Viet	Hoped Monte	26	LDI.	130	113 738	19		MA
48 .00	00	Dide lique	MARKSON	WEREAM	WIRGM		Departs	Most	Morei	DF.	101	100	180	16		94.
48 (0)	VC.	Distriction 1	MAKULE	WAITSJAM	VACTAGAV		heligns	Voor	Mines	42	Dif	130	. 18	M	1000	MA
500 100	90.	Disk Sopre	MARKE	VINTEGAU	WEIGH		Kerpe	West	Hore	130	1.0	10	100	135		NA.
81 (9)		Trie Squire	30/04		WINISHAM	- 40	Between	West	Morei	127	194	100	18	111		MU.
阳 昭		Trois Separé	HADWAA		WERM		(Airpost	Vist	Mered	- 111	LIII	130	1.81	1.00		N.L.
101 100		Drote Segara	201010	9090W-R	WANT BUSIN		Signi	Med	Steri	2.7	6.00	1.00	1630	136		NU.
304 (0)		Dick Sopre	50/06	5080ML/II	WEAR		Dongs	Mint	Ritteral	1.0	1.6	100	142	1.8		NUL.
35 In		Dick Signs	50/06	10/06/4	8749	17%	Minuspité	Med	Hered	. 136	18	100	081	845		NUL
36 (49 30 (80		Orde-Sandwitej Diskribgere	MONN.	EXCEN	WASAE	10s	Kilmaa jart-e	Mind	REEN	4.17	187	100	134	18		NUL:
H 10		Date Square	PARTHAN	HACKING	SOASAA		(Ridges two	West	Desergi	13	4.94	100	184	18	130	MAL.
10 90		Distribute	-ACMA	HADVAIL	DICHACANA		Let#don	Mint	Timel	131	10	100	107	811	100	MIL.
12 19		Orde-Sandarbii	MOROW	MOLON	ANA ANA		Rigora D Hambrell	Mad	Nates	141	4.01	100	1.6	231		MIL
11 19		Orde-Gredetal	MORN	6000A	AAR		(0-thatte	Med	Helevel	121	1.5	100	1.09	541		NU.
12 89		Onle-Sentral	88000N	MOFOL	AM		R MICHAEL	Med	Detroi	1786	DE .	100	18.	50		BUL.
33: 10	(K)	Grow-Sondertal	3400014	MOPON.	W	_	10094	Red Red	MI.	110	124	100	4.0	0.H		MU.
531 100		Orde-Societal	DROPON	MOPON	AM	_	(N-Stei	Ward	Wated	15.00	1.5	100	ER.	0.0		NUL.
10 10		Onle-Geodetal	OV50MM,		AAL		(1)486	Hed	Weed	100	12	100	16	800		MIL
135 100		Onle-Sordetal	DVSIMBA.		(A)		O-MORROTTALIA D	Mary	Material	1.0	4.6	100	1.8	0.00		NU.
30 89		Orandoresia	DV1/MBA.		š,tš		5-GOMMANDON	Med	Metined	1.8	18	100	13	18		NU.
331, 70		Onle-Sondartel	GWEERIN	CACHEA.	XL8706		CO-OLORAN A	Mad	Metarial	1037	198	900	iii	0.93		MIL
13 10		Onlin Sandarbal	GMODBIL.		AA896		(Casos	Med	Meined	1146	185	000	136	48		MEL
13 81		Onto-Sanderbal	BBOPON.	NUL006A	4,20M		04000	Met	Meteral .	11.71	122	100	138	496		911
32 (0		OxforGenderbal Controllecture	MOTOR .		A205A		O-MANAGAM / /	Hel	Morel	101	421	100	1,0	0.01		MILL
22 例		Onle-Gendertal Circle-Gendertal	GARDERAL GARDERAL		0000EHMM		C-MARGON X	Met	Virtonii	1131	4.70	100	Lik.	CBI		NI.
23 M		Onle-General	SACENA.	GARCIEN.	30000R-MAN	Rh:	COSTEMBRA FESSER HIStoricism 6	Ret	MI	131	422	-00.	138	135		NIL
25 M		Crole-Genderbal	GACCHAL	GARDERIN. TUMOUA	200000-MAN	40;	PERSONAL PROPERTY PRO	Ret	ME	101	1.77	16	1.35	48		50.
33 (0)		Circle-Genderbal	SACHA:		20000R-MAN	49		Wet	Moresi	10	1/8	EH .	3.85	4.0		NI.
107 109		Criti-Genderbel	SHOESA	GARCIEN.	30000HMMI 30000HMMI	4Eb	TERROPATE V	Wet	Mitted	W	156	UII	114	185	100	N.
133 (0)		Dro-Green	MAGERIAL		GIGHER		Ordinates W	Met	Mdmvi	438	1.8	48	121	14		NA.
525 3/15		ChitrGenderou	TAKONA	Printed and the second	MOONG!	-	10-0400Moin0	West	World	11.84	436	1.0	99	172		NGC
10 (1)		Orleta	25-50HA006	-	MOCAD	etto etto	R-9400Kosta	Mad	Molecul	481	134	18	2.94	15		NO.
31. 49		Citie Georgia	SACHIA		SACKINI		DATES.	Mod	Week	18	18	18	28	18		MIL
52 100		Distribution .	DI SUMBLE.		MB		E-MA	West	Motori	19	10	LIR.	13	L/k		KIL
55 80		Diskrientel	DI SANK	0000000	MAN		77/9A/000	Wat	Morec	198	140	18	13	1.0		NL.
34 100	120	Orde-Ganderbal	DI SONIA.		MON		FLOROSSIA	Viet Viet	Monei	18	207	LII	101	18		N.L
海州		DrainGenterbal	GROOM		DAGAY		T-MARKS	Mag	Morei	22.00	134	10	1546	L/t		KS.
58 107		Did-General	SHOOM,		OAGA	- 50	25-WAGEN	Visit	Marsi	DA .	TM	18	1187	136		N.U.
127 (45)		Dicte-Ganderbal	SHOOM		ONEX	- 10	H-DVA.	Meet	Mond	2.0	111	18	708	1.0		N/L
128 (17)		Drib-Gardelbal	BACEBA	ONGAN	DASANDI PIC		FLIGHGM	Med	Means	131	141	18	111	18		N.L.
129 340		Divis-Gardettel			1655 BANKS		N/IIIAKIA	Meet	News.	19	101	100	687	577		N.I.
140, 300		Dish-Gardetal			COS-DAMAN		F GARGATONA	West	States	141	1.0	100	630	180		N/L
		Disk Gardetisi	BAXXIM.	TAMBA	EURHANA.	1 10	13/000K	Met	Tittest	23	434	100	139			
941 (89) 941 (89)		Distributed			ERIOM.		310M	200	19075	30.00	737	100	148	LH	9.00	MIL

	ķ	Named action	Name a Decar	hand a list down	I Bearing		CONTRACTOR OF THE PARTY OF THE	te Philip	Type of Sector	honda	No.	NIN	-59	15	Varience	FR
12	100	SMI	la Mil	De MET	Server Ste States	Date	-	tracking/scorreport on/hed	MANAGE MANAGE	System (New In IAL)	Descriptor 3192	Name Name (AMC)	Mint	EX has	Manage Accounts (A) (II Straight SAM) (A)(II)	
	600	OcieGesteta		WICH	DAY.	III	TAPON	Red	Morei	4.00	254	000	435	165	COS.	NI.
	100C	Orde-Senderto		MHGM	JA .	-	Ouk Ouk	Fiel	Mind	120	192	000	6/0	633	777	REL REL
36	850.	Ordelandetal Ordelandetal		NAME	AND THE PERSONS		T-AA-MAR	itiel	Resec	246	178	000	19	636	101	REL.
	MDC.	Ocirilronta		TABL	MANGAL SANCHI MANGAL SANCHI		IS-GROMAGE TS-SMACOS	Red	Meteri	3.00	135	dit	83	183		511
	HOI	- Drok-Sindertal		SASA.	MANGAL SANOOL		1-Griga	Red	Rend	118	485	08	221	661		HEL.
	M90,	Oxfederatele		MUNICAN	WALLA		THE TURKS	Ref	Tetral	38	455	08	12萬	100	18	ME.
	9/00	Dich-George Dich-George		MAGAM	IMIGM	_	()-60%	Well	Herei	547	182	CIE	(1)	0.9	7.75	REL
	WEG.	DorGreets		MANGAN	MAKENIA MAKENSA	-	DANGA	Med	Trient	3435	412	CSE	35	6.5		9,61
	1990	DorGosta	DI SIMBA	SANK	MANEAGE.		G-HUNDA THOMATON CALLS	West	Reed	1000	530	58	1.8	676		MAL
	(8th)	Drox-Genorda	DYSMEE	HAR	MANAGE		S-MAYON am +	Med Vest	Mend	822	18	CIE	325	UX		MIL
	PRO.	Distribution of the Control of the C		5/MBA;	WATABA.		9.894, H-(U))	Mind	Meterol	100	28	630	117	E36 E30		NIL.
	MACT.	Driv Gantonal		TANK	MAKADA.		0-45IA	Mind	Meloui	10.	28	68	13)	1,94	1000	MIL
	W00.	Tiste Gentrote Distributed		MILIFON	MONE.		0-GHOOR	Med	Meteod	141	334.	1.85	111	Life		No.
	litti.	Drin Gardinba		GANDOSA:	Man		DADA DAGA	Maer	Meteod	11.85	5.13	1.00	- CH	155		MAL.
	990	- Tirtir Sanintui	311 10404	WIN	MOUN		5-6MD/B	Med Ward	Mond	581	26	1.00	100 646	10		N/L
	000	Sto-Sentetal		NAME	MONE		(2-leak) (2-leak)	Miss	Mrimal	124	43	120	431	1.0		NO.
	3800	Dokum	JOHNS .	NTW	MORW		5-532989Wares	Meet	Meteral	188	188	18	4.0	0.00		NU.
	0001 0001	Grániscockú Grániscockú	SANSYON	HAM HLOSS	SADEAL		9-9ADMOMonta	Meri	World	1.0	1.11	10	1.09	138		NU.
	UK	Orde Genderal	SASSFON	RILDOSA	PACSA		t-dayon	Mant	Writmil	4.0	131	100	131	3.85		MU
	1000	OrderSedebil	MADION.	AULDOSA	PASSA		D-RAGGAN	Med	Debrook	17.	1/8	100	454	100		NU.
507	kf00;	OrderSanderful	SWOOM.	MNGW	70W3 KOUE		L-MC:	Met	Mind	1.0	16	100	6.5	0.66 0.75		901
	600	(in)=Societal	SAKOBL		70401030	5941	Netropol Courts	Mani	ARR	1.96	20	100	145	40		NU.
	490	Grandertal Christianistics	GM0984.	SACORAL MANAGEM	HOME HOLD		1-6008.00 juni	Med	AM	214	155	0.00	7,00	- 000	4.04	NU.
	600	Orderlanderbei Orderlanderbei	GARDINE.	MINISMI	1040-103E		Halland .	fiet	Deed	3.8	431	101	118	080		WILL.
	900	Dick-Gedydal	CANTERNA	SHOUGH	70NE140.0		Metars/4 (4/16 4-03/MAA serte	flief.	AH.	3.0	1.6	OFF	128	66	636	MILL
	WEG.	Dichrümenber	OVERNA.	NEW	RECIDENCE		1-PENE	Red	Elitani Hitani	18	1/5	101	£30 £30	6.0		MELL
	891	Distribution	DV1099A	ALS	HOGNOHIII		1) 000 MI	Ref	Return	19	18	100	131	CIR		ML:
	1960	DorGnerie	OV10MSA.	1601	996 M/M/I	18	S-MOVIME	Mont	Report	701	130	18	4.8	46	1.00	NI.
10	MACT MACT	Dicke Spacers	SWOKE SWOKE	RANK.	940908		144304 and	Med	Water	1.22	AH:	18	5H:	4.9		84
	WELL .	Drivianderbii	DYSOMA.		PACHORA PACHORA		1-MEDORanta 0-MEDO	West	Heteral	180	125	110	116	6.02		100
	991	Doir Grossball	DYNMA.	0.000	SHORON		CONSTRUCTION CONTROL C	Med	Mexed	741	7,00	1,8	170	C.B		MA.
	NAT.	Drie-Growte	SANCEREL.	-	9,9948		D-GANNA	Visit	Monet	128 1528	138	1.0	6,01 10,25	6.80		N.S.
	970	DoeGedebile	GAYOLISM.		2,4166		0-0xc	West	Ment	20	18	130	100	LN		ML.
	1990	Dokrianbrise	GNORE	NAMES .	10360		1968.0	West	Motorsi	121	2.88	130	58	LIL.	7.7	94.
	(FEE)	Dro-Gerantal Side-Gerantal	SACHUL	TORGE	TULBAGH .		S-PRODUKOWA	Mor	Motoral	804	100	1.00	\$11	5.80		N.C.
	1000	Dog Sports	SWINA		TILABOR		9-040% 0-98% pm t	Miet	Move	1148	Ol.	130	101	128		No.
	000	Del-Grandel	BROKKA	-	W.DMX		5-MDE sets	Mind West	Monei Monei	13	504 861	120	1A34 -0.01	579		MAL.
	X800	Orde Sententul	SHORE		V.SHI		SONTSOL	Manf	Mont	11.5	827	100	10	177		NU.
	MAC.	Orielaninis	94008A		water		0-merplu	Mani	Miterial	15	4.5	100	111	101		NU.
	(000)	Onla-Bibelies Onla-Bibelies	\$100 WA	**************************************	enegal enegal		UHRIGAN	Vest	World	185	40.	100	0.00	131		NII.
	UCCL	Circle-Mibelus	5,85464	-	ACHMODAN ACHMODAN		USAN1 Albanda	Wind	Mond	4.00	134	100	16	111		NUL.
	000	Circle Rijorius	SCREWAN	The second second	ADMICIAN .	594	MALE STATE OF THE	Vet	Mont	13.	181	100	00	1.8		NU.
	990	Distription	5186-MA	*5*5******	MUNA		E.M.	Med Hed	Monet Moret	120	131	100	107	930		NU.
	800	Dr.h-Ribrius	SSOAA		MCM.	590	ANI	Mari	Mend	130	144	100	18	201	2.11	RUL.
	800.	Orde-National Orde-National	BISHMA	1777	MON		DUGH SLO WARE (MARKE)	Med	Wint	15	4.31	100	UD.	561	100	REL
	600.	Drie-Blancy	KUM	-	JOSES .	550	M10)	fiel	Minut	3420	121	588	11.96	\$11		WELL.
	600	Didelijatus	RISEAM	The state of the s	WAN		CNEN	Red	Wast	7.80	131	480	18	541		101
	1000	Drieilijinters	ANINTNAG	(000)/	69708		KIN	Ried Ried	Report.	5.8F	18	000	18	966		MELL
	BIOC.	Disklibber	KUCAN		WHITS	50	MSO(set)	Start	AM	216	187	101	118	40	4.04	MI.
10		Dide-Spiritus Dide-Spiritus	ANATNA;		ADM/TON		MSKM/SWG	Med	AH	180	138	181	4.8	4.0		MAL
80		Delegano	AWAYNAS	\$1511.00C	30-40704 40-40704		UPCLASS KONSAN SHILPSNI JULI S	Red	an	275	139	LIII	179	10		ML.
	P90.	DoleAlbetara	ASATMAL	P-900	Al-APON		LENGTON parts	Wat Viet	AM AM	48. 28.	195	LH	120	439		KL.
	MOD.	Circotibries	TULGAR		3.67994	10	PIOU.	Wat	Riccal	100	435	LII.	1.0	18.		ML.
as :		Drie Eineren	TOTAL SERVICE STREET		2.470%		HAMANA)	Ret	States	10.11	18	4.80	186	156		NIL.
80	607	Drie-Ejhran Drie-Ejhran	FLISAR		3,4799 3,4799		KORK D	Med	Med	1531	18	LH	101	- 19		N.L
100		Stringbras	NUMBER	Control Control	DOW.		MODE part is	Wast	Minet	121	3,25	1.0	146	ESE.	100	N.E.
U.	890.	Distributes	MULGEA		MVSAE.		Williams N	Med Med	Mateoi	19	234	130	18	155		M.E.
	001	Crontipatura	CLUBS .	\$2600	SVA		DSM A	Med	Motore	131	189	130	1.01	EM EM		NIL.
111		Crossbean	MANUAL .		DAUGAN	m	HILM X	Muc	Velend	18	111	180	101	135		MAL.
苗		Ode-Status	MANAG		DAGAR		est V	Mod	Motoral	101	18	18	18	LB		NU.
10		Oreigeas	MAKINE	1000	DAGAR DOOKU-KOICH		DISM A	Viet	Mond	1121	741	130	1044	1#	350 -3	MJI
Iti .		Gordones	MATNE	A Control of the Cont	3000-5004 3000-5004			Visit	Metrod	141	234	100	19	136		MILL
67	KPIC.	Ordelidetas	PARTNE		DEDICION SOLEN		RSS pet a	Visit Visit	AAT	18	43F 03L	100	LU	EII III		NUL.
ш		Gro-Ribbins	MATNE	00081	0000-30109	(9.	MERCH!	Visit	ME.	13	19	18	128	1.00		NUL NUL
B)	1000 H	Grossbetum Orde Elbetum	MARTING		DODLIGUN		I DMG/AC pet v	Maid	ME	TII	181	1X	1#	111		NU.
83		Ordelitehin Ordelitehin	MATRI		SCHUTCHA CORNECTORA		MAN G	Meet	Motoral	38	101	100	127	146		MILL
	990	Driv-Hibrion	MATRIE	TOTAL STREET	HADAE		DINGROW II.	Mast	Mitest	19	ASS	18	15	581	500	NO.
121		Go-Shrini	KREWA		HRIGE		ATMOS	Med	More	1135	101	500	161	131		168
134	000	Orde Blatters	Motor	AW/NA	WW	5607	World	Vari	Water	128 348	AIII	100	10	28		100
Ð.		Ord-Ribrins	ANDRES		HUS BRI	果	K-ISI	Med	More	18	19	000	18	161	2.44	WELL
EDI ETT		Onle-Ribelons Onle-Ribelons	ANATON		NUS BM	94		Mari	Mont	13t	15	180	12	18		10.
10		Dr.le-Bjiefen	ANNUAL	1111111	H19-0000	36		Hiel	Mind	13	16	60	19	13		42.
429		Under@details	ANNTAG		MUR-0000	363	WENT	Ret	tore	177	技	18	18	(8)		NI.
B	600	Drakbers	ANATIAS	900W	HLUB (009L)	385		Ret	Store	60	18	08	240	List List		ME.
III.		Dr.b-Schrists	AVANTRAG	MATERIA	H-TM,M.		MINIT	fiel	Rend	LUI.	1.9	10	10	1.6		MAL.
60		Drahábhan Dráhábhan	SUBSIANA SUBSIANA		ACTOLIAL.	3803		Ref	Patrick	231	12.	C.B.	48	14		NUL.
	and i	Drit-Afferbris	AVACNAS	000Mi	SRCHWIND BIRKSON	380 3	1.100 NORSAN (MT)	Med	48	19	19	1.00	131	135		8.0

	ł		Townson,	To all	San Can	10312 4	1			No of Sons	20.07	200	No.	50	Wal	- William
SW.	-	100	polalizini.	241	(a.ec)	Name of Sections	DA/I	No. bes	To disability of the control of the	APRIL NAME OF STREET	Service Services + MAS	Indir Countrie (o M2	tipera Indetions in MO	Marie .	Athen	Statement Street Administration of Street
9	1	903	Distilleton	AMONG	owene	MC/FMID (RAPON)	10.	ELD, SNGAFORS		1000	4177	1200	412	100	3000	Seemi SARI, SACI
85			Dontpeas	SHARTNEE	ARRIG	ANGJERMO BRADONI	+	TANKA II	Visel Visel	Miles	118	121	200	107	111	500 (901)
87			Dole Shelas	HATMS RESIDE	AUTUG	WE'SJAMD BINGOM		A SEPTIM BALCOOMPAN	Mad	Alth	11.55	417	08	LB.	09 014	000 NUL
68			Dollaber	Billion	EEWA .	PRANT PRANT	-	C/May	Virol	Went	35%	401	280	LN	401	130 303
100			Cris (Bebra	Methy	KDSK	IORNE		CANADA	Wet	Mont	11.22	436	- 08	18	164	10 901
100			Oddforas	MARRIAG	ND84	CONC		E/OA/	Kiel	Riteral	1119	141	18	1.6	2.9	(10 /AU)
14			Schlöber	MARTING	KIRK.	CKHAL		ECONGA .	Red Kind	Mared	138	120	100	10	164	120 301
IST.			Ordelibelas	REDM	6100	NISM		L S.GAN	Red	Men	MIL	431	18	184	1.01	610 (401
14			Orde-Björkers Orde-Björkers	KISW	KINGAN	TO SAN	_	CINVOIS	Kind	Retend	357	139	1,0	UA .	18	100 MIT 500 WIT
461			Ordelijakus	KISM	90900	KIND		POWA	Red	- AM	XB	531	1.8	1.00	16	150 (63)
iti			Drok-Sjertura	11,040	30580	KING .		C/MA/DMLE	Med	Monel	435	1.95	1.0	10.	140	100 (00)
101			Sick-Market	ANN SAC	WYM	MUNE		THE MILANAS	Red Med	State	135	419	120	116	1.02	100 (40)
481			Ordellatus	MANNAC	MANNE.	MILWIS	- 6	FERENDOX	Mod	MAX.	136	136	130	186	130	820 Mill.
66			Dick-Bjehre Dick-Bjehre	ANNYNE;	AWAYNAS QAZO,NO	MUMMI		ESPECIAL HOST OF HISTORY STATE AND	Mind	MA.	101	10	120	107	138	815 Mile.
OI.			Drivillators	10.00	Q406.80	MISASM		Serge Samuel	Myed	Mond	kB .	161	100	131	1.0	100 Mu
62			Dro-Speray	NUSAM	QUEAG	NIBALIE		MANAGAM	West	Molesi	186	18	120	432	1.04	100 M/s.
60			Dipli 6defens	NUMBER	OUTCAL	MANUAL STATES		MICPA.	West	Meteral	1531	101	100	4.8	146	28 N.L
£X.			Drivibles	JAMEN .	ioverne)	WINT		(F) MIBER	Med	Milited	A11 134	10	100	146	139	000 JAAL
.66 ex			Dro-Elbergs	MARINE.		WBD	_	COMMISSION CONTRACTOR	Med	ARE	118	18	588	AD.	0.00	304 (MSL
89. 80			Drinkbeurs Drinkbeurs	NAMES OF THE PARTY	AND DAY	MMACR		GHEANG ON JETHURING AS	Med	ARE	ist	78	100	18	100	004 (MA)
108			Dol (bries	KASW	E t 1004	MUSW	129.	SUBSEM SUPER	Ward	Means	12	3.80	100	18	044	18 No.
10			Crite foliamia	(HONA)	50W	MIDN	17h	85M pris	Med	More	1.0	106	400	13:	161	50 NUL
100			Ordelightess	ROSM		MUM	Cts	W10M 5616	Shell	Meterol	107	18	18	14	16	CO NULL
RL			Orbitalis .	ILISMI		MITTAL	Uh	MUSH sector	flat	Stand	18	12	10	18	457	C10 MUL.
組			Onte-Bjohas Onte-Bjohas	MINTAG		NORSAL DEBIGNE		Dorse	Red	Rent	14	10	(H	48	EXI.	630 NULL
584			Drie Nortes		Control of the Contro	MONGAN OCHIGAE MINISHAN		NORM	Net	tiene	136	120	1.0	125	1.18	000 NUL
拓	in	0.	Onle-Signature			NOVGRA (HOGS)		NOTES STANDOOR	fiet	Rent	428	13	1.0	111	135	030 REL
#	179	0.	Orde-Billehore	AUNTAG		NOVERM SHINGS		NOVEM	Ref	Mont	238	10	130	1.0	1.8	1.0 10.1
40			Oravibles	ANATAS:	ADMA:	NOVGRA SHAGE	N/H	DSS part 9	First	Mend Mend	100	1/3	100	1.00	110	830 Hill.
88.			Distributors		2222222	NOVSAV SHIROLE	Nii.	565 flame	Mel	Mond	311	386	100	235	130	130 NEL
部			Drok-Blehov Drok-Blehov	BISHAL BISHAL		Shign		PEGNA	West	Wind	340	171	130	18	12	600 MIG.
572			Dide 60mes	THE COLUMN TWO IS NOT	-	STANSER STANSER	_	NUMBER	Viel	Mond	420	418	180	121	19.	500 MIL.
60			Disklipsky	RECEIVE	The second second	WACCAN		PRICAR:	Minet	Metrod	10	741	100	1.0	1AT	0.00 M/E
10			Cros-6(bries)	ILIERAN	Projection (Auto-	TRACIAN	_	Many good Av. Librory.	West	Momi	18	80	100	134	130	0.00 M.G.
£\$.			Sinte Bibehara			OWNE		SWO	Visit Visit	Miterel Miterel	MI.	529 520	100	101	100	600 MUS.
13			Ordelijahan Gertina	WE SW	THE REAL PROPERTY.	SMOH		MITS-AM	Med	Miterel	15.8	121	100	994	100	DM W/G DM W/G
RT.			Grickbeur Grickbeur	-		Quiston Quistono		RDWM	Med	Warse	8.94	101	100	118	08	000 M.E. 000 M.E.
18				DOTTON .	Treatment of the last of the l	985/80		Net Comments	Viei	Morec	11:31	153	100	141	111	0.05 MAI
171	1000	2	Sci-library		STATE OF THE PARTY	04000		MADOD:	Mart	Moret	146	in	100	434	631	10 M/4
HE.			Orbibbas			DASSAG	_	PM/MOO	Viet	Moret	10	191	501	4/8	062	40 KU
41			Oroliphin			964	92	SIS	Mari	Mini	69	180	08	182	038	000 N/LI
組織			Orde-Ribehou Orde-Ribehou	5.0000000000000000000000000000000000000		SALK		PRACHIAD	Med	Mand	1138	All	000	431	66	00 80
IN.			01930mm	2000777	ACT INCOME.	知説 知道		SACAM	Med	Mint	136	48	18	158	048	C00 MIT
10.			Drit-Fibrisis		National Control	WU9		ROLAR SEPECE	Med	Mittel	11.96	631	688	1.9	6.94	CID MILL
(8)			Ordiniliteires	BROWN.		SANSAN		BINA	Red Red	liked	10	18	tn	456	- 041	CHI NO.
887			Oxidativa	2000	CALCULATION AND ADDRESS OF THE PARTY OF THE	Ungay	- 94	ASSAMA	Ref.	AM	7,0	127	135	160 430	131	630 NEL
iei iei			Drie-Björfani Drie-Björfana	TOUCH STREET		Mican		SMGM	Ret	MI.	41	134	LB	130	100	600 MIL 600 MIL
R I			Dok-Spiran	111111111111111111111111111111111111111		SANAL SANAL		FLADOW.	Rel	AM.	3.8	.575	110	UF	18	00 HE 15 HE
Ri.	WK.	n.	Dro-Edwara	77.71		SANA	_	FLASH. FLISANN	Ret	AM .	107	487	130	434	1.0	EM ME
虱	97.	9.	Dish Spiritors	SHINE .		JATRAL		N-MOTOSA	Miel	MI MI	18	1.6	130	239	138	4.5 Mg.
	W		Date-Hillerfers	to the same of the		JARIAL		PESANAL	Most	ME.	123	7.86	120	18	121	175 M.S.
DR I	100	_	Deb-Bildeland Deb-Bildeland		The state of the s	MAA		IT DEBITAL	West	AN	28.	139	100	18	130	500 M/G.
m			The Second Second Second			HANGEON. SHINGROW		SWISTON	Mint	World	401	180	100	7.80	18	100 M/L
BT.				Productive Control	The same of the sa	IMMORTH.		Jest Policia V21 SARONA	Mant	Mitmi	SASE	137	130	121	111	900 N/A.
ii)				PRING.		Table 1		INMAprile	Visit Visit	Moternal	10	88	100	18	141	M N.O.
8								36FA4-(150R perty	Wati	W	10	120	100	101	637	29 M.L
2						ACH .		ATATIC	Visit	More:	101	101	100	191	033	29 N.U.
雅)						163F		ALTH	Med	Moret	140	101	101	166	141	000 NUL
78				CONTRACTOR OF THE PARTY OF THE		ROF EXION NOVING		MCMM ACMAN	Viet	Morei	631	038	101	550	535	100 NO.
78.	800			bergeolista's annual an		EARDA ADMIN		ALVARA ALVARAN	Med	Meet	131	134	500	1.0	.025	50X WILL
7%				MINTAL		TATOLADASK		BROM X	Mari Klari	Morec	1140	484	101	16	68	5/8 N/L
76 1			the state of the s			SYTON NO MAKE	- 60	11	Ned	Means Means	196	19	980	1138	641	28E N/A
DI I						Ol .		ETHONED .	Ref	Menni	12	18	101	13	682	500 MIL 500 MIL
18						ER SECON		BAR VI.	Ked	Steel	11%	10	(8)	43	TEL.	18 81
121	KF00	1	The state of the s			MUOIA		TROM W	Fis(Steel	116	125	120	14	618	48 80
111	6/00	1	Oradibrius	BIBOAN.		DROM.		20ths	Ret	Stant	107	4N	101	13	18	100 100
10	600	1		SOUNAU	S,ESMA 3	DEGN.		DMENN	Ref.	Rent	123	140	48	102	1,6	til no
12.						ATAYON/SYCHAN	fil	1310	Ret	Blood	118	140	181	130	130	830 R.S.
TA S						ATMONESHORAL		EMB C	Yest	Report	485	180	18	141	130	130 MIL 130 MIL
ID I				O Parish Comments		ACAYON-SIONAL		NOW R	Rei	Morel	132	18	116	18	18	130 165
17.	1990	1		The state of the s		ANA ANA		HATOMAN (C.	Wed	Mond	288	18	130	138	1B	18 M.L
18 8				The state of the s		NE SEA		Namion () KARIJ, H	Met	Mint	142	18	136	435	Mr.	830 N.U.
12 3	etc			HONN	HONA	CONCAST SINO		66.0	Med	Mone:	38	48	100	711	-18	100 M.U.
70)					HONA	KOMSAN SUNG		ENGL U	West Viset	Worse	584	241	130	III	IM .	900 MAL
H A						DOMONTO SINC	ist	PALFORE FS	Vati	Worse	146	SR SR	100	125	(6)	900 N/J
725)0 705)0						ACSAN.		ASAM II	Viet	Warei	18	28	100	13	004	000 MVI
	DOC.			Maria Caracteria Carac		ACSANI ACSANI SHOTAN		CHARGEN FE	Watt	Morei	181	181	300	141	186	10 MIL
78 B						CONTRACTOR CONTRACTOR	188	TWA	Vari	Wired	134	523	500	16	0.99	III NO

	Numeroline (chi)	Andrein Mess (s MI)	Name and Advanced	tors of the Belley	ten Zakit	halcter	Tax of Noder principles ("month) bytes and/free]	To Com-	Aprilet IX Substituti VMS	Seeker Description (or ME)	Suite Invite Inditant (AMI)	Sties	#10 best	Kitatorea Soup Amenda F Sour 60,00	
10 MIC	Onit Separe	30/00	309061	MIL	3473	ROMKOW	Med	Billeri	18	19	000	18	139	100	
	26624	9,0046	DAUM.	NLL	1003	SRF DNDLIN (N)	Mini	Steed	18	190	58	58	111		AL.
-	06kix	OVERAFINE	30980	ML	(792	DAY DAVING DIEGO (CONS.)	Wast	Rend	18	DE .	59	52	100		85.
	Chiesiann	SASAVLJA	MMUH	NI.	34.01	MI NUMERICANI	Med	Birmi	13	121	10	116	W	_	45
	Onlesiques	200	10061	RE.	300	BIT DUALDOILINE	Med	Retroi	1.6	139	18	13	18		81
	Onleaded	In (MBG)	WEST MAKE	NE.	390	THE TOWNS CONDICTOR LINE	Viet	Blind	18	18	000	665	133	-	NL
	Onte logon	25-7MGARK	SHOWE	NG	3MI	30 DOMEUE	Med	Marrie	6.38	009	000	CIS	10		NI.
	Ontribony	HOME	AKOKA.	NE.	360	KSONE, IBV	Med	Mint	129	136	520	038	16		RE.
_	DOHERS	EIEWA	LEN	165	MG	JOH HANG DE	Visit	Motore	(3)	102	101	100	634		Mil.
	2634	DIRECTOR	401,004	NE.	SCH	HUKUM	Ved	Molest	118	127	100	116	55.	_	101
	06636	DESIGNATION	WEST COST	MA	MES	KARRACHET	Med	Mitené	LE	0.0	10	650	08	-	NUL.
	Orinigen	37,1360445	TADAKS	NA.	83	380 69E9UM	Ved	Mitted	48	1.83	108	628	06		MUL
	Drie Miles	2005/3/08	MAKE	NG.	98	ROMO-DIE SIV	Med	Moorei	85	446	0.00	136	08.	18	901
		DI-BANKTHON	360801	WAL.	(ICE)	TREE DOMESTICAL THE	Med	Meteral	33.91	11138	580	630	68	48	MIL
	Cole Meets Dole Meets	HERAK MINISTON	MINISTRAL MINISTRAL	100.	101	DE REMAINE	Stat	Worst	121	120	010	616	0.00	100	NUL:
	Devlet	BUILD	BOW .	W.U.	ASI.	Hercon	Ned	Milesi	101	18	530	125	69	-0.0	W11
	Sinistr	21486464	NINE	NU.	ME	TRY KOCKHI WENDOOK SHE SE BLOGAN	Bat	Mitest	111	8.0	630	630	04E	0.00	NU
	Smith	24 40403-3404	milk OCA.	M.G.	WD:	DO SONG PRANCES (INC.)	Ref	Mend	122	10	630	686	435	680	MUL
	Driebel:	DV-674,6401	NCANO.	MAL	(611)	ENVENTION PARTIES	Red	Most	101	100	636	EX.	0.00	416	NU
	Dra-Meni	MAKEROM	HATOE	MU	WILL	DOWNOW BECKERN	Stel	Wort	334	1,34	100	638	ELS:		NI,
	Drivings	MARKEN	MITSIN	MU	129	INTER A CAREFULLING	Real	World	101	100	100	100	130	- 630	MIL
	Grà-Niero	PUNKAL .	PUNK	NGI	100	ENVIR MICUSEON DIVISHIP NOUSE	West	West	122	5.11	100	T)	134	6.00	NUL
	Schhles	NAME FOR	IMPOK.	Noti	100	ZWIN UN BII	Red	Meani	101	100	12	10	130		NG.
	Schröden	NUMBAL .	PUNIN	NOI	IIII	BVD-9404	Ret	Mest	131	733	100	1.8	138		NL.
	Dra-Name	TUNN.	70000	WU	1911	8455-8650 8455-8650	Med	Ment	166	1.6	100	104	134		NO.
-	Orbi-Nami	AVAICYON	MATTON	NU	IDE .	SH SHOW	Wed	Manu	100	19	120	18	18		EL.
	One-book	5,7904	KPMII.	NU.	MII	ON LIN MS	Med	Hend	18	110	18	340	10		65.
	Ora-lower	BASMUJA	WANTER	NU	MOS	TE SASSEMBLE	Viet Viet	Rene	100	18	100	16	136		12
NI PRO	Oriside:	BUDGIAN	MASA	101	MEL	THY MASK SWAPON YOUR	Vari	Beest	4.5	30	100	18	111		Ali.
HI JOYC	Oracia:	OV/(MAKE MOX	SAUME	XXII	_	Dis 8.40 (8)	Med	Mend	12	101	100	201	100		NI.
m)000	Chris-logers	2,54MI	TANGMAKE :	86	-	301 WS 201 June	Mari	Beens	tit	55 54	101	56	100		ALL.
BL (800)	Cod-Name	O40/01/0N	O(KO)OK	10;	WEIL	BI WCore	Med	Mone	LE	081	10	002	18		85
Hi 1000	Orielapart	12/0E	30/0E4	RE:	346	BIT HE THE MANGAR-LINE	Ward	York	44	542	10	602	15		3.8
M (700)	0983	DI GRANT SHORE	HOMON	90.	No	DIFF RAPOE SCAMISSO IN	Mari	Weignei	18	10	580	000	000		M.C.
	CHRZHE	DISTRIBUTE	SAGALL	84	100	HANDMINE	Mad	Witnel.	28	116	10.	565	-10		100
78 KMC	Orde Septer	SPRE	MIDN.	NE.	MER	DISTRITURA HARRIS DEL partis	Med	Morei	14	16	18	00	131		NUL.
	Crisi logers	S2F06.	309064	N.C.	Mile	EBIT SOFOE SAGINGALUE (MIL)	Mad	Motors	1.94	199	68	435	18		M.U
_	DRAW	RICCAR	340.W	MIL.	ME	BOTHWATER KNOWN JOH	Med	Motoral	1.11	152	66	(8	16		MAL
	DoHives	4561930	AMIDI	N.L.	ME	HAMPON LINE SON	Mad	Worst	931	86.0	10	14	12		MIL
	Cristians	PERMA	1634	90	ME	S GYAMTR PLOMALINE	Med	Word	3.00	10	00.	¢a.	4.0		MAL
	Cris Falsons	PESSAA	POMA	MAL	Wall	DAYAN ALUK	Med	Word	LH	475	010	CIA	504		811
	Ord-librius	KSGAR	GARRIE	MAL		BIO WARCO SCISIAS INC.	Med	Meni	608	AE.	0.05	620	127	1.0	NU
400	Git-liti	ZH (IMBA) I	394	MAL		BYMIALOS	Med	Morei	305	239	(20)	18	- 18		NU
	Dis-list	30000	BOW	900.	339	TRYANGERS AND THE SE	Mint	Milirel	18	4.99	0.00	638	- 485		NUL
	Cris-Neens	MAYOU	W.	MAL.		ERV ANT LANGAMENT LINE	Met	Witnel	141	686	000	13	46		NU.
2000 ES		301-BALKT MON	HERRIGH	WIT	901	DIV ARM IN CAE	itlet	Moret	38	334	636	125	48		NUL
	Drin ligary Constru	300E	26081	NO.	_	ERVICELUTION .	Abet	Wirsi	144	- 06	000	630	107		Na
05 - W000	-	DIAMAKAN	HARL .	W.U.	_	EW MEALLOOK	Ref	Moret	336	25,02	630	180	18	-	NU
£1 (890).		2740A861	9660	M.C.		開設医療庫	Riel	Morei	141	136	100	15	12		NO.
	De-Sebrai	SMORK	TURLU	NUL	_	SAMA, UNIORS Y SAN UNI.	Ret	West	233	122	130	500	4.0		No.
-	Dol-Bishes Colo-Bishes	MANTAL	000kU	NUL		Bh/WMO-U	Ret	Mont	1.0	122	0.00	104	135		RIL;
	Drivigore Drivigore	KUSAN IOKH	SCORE	NO.	(III)	SIN MUNITARION	fiel	Moni	341	1,42	1.00	Ш	136	100	NL.
100	per agent	1000	HTM	N/J.	361	BO MC ALC	Shat	West	101	101	636	122	130		No.
									39435	285.00		1			

DT level Information

- A. Details of Distribution Transformer (DT) Level information
- a. Division-wise status of DT level metering (please add more rows as per requirement) (Please fill the data for each division during reporting period)

Zone name	name	n name	r name	DT on Feeder	unmetered DTs	No	o of metered Di	ſs		Ts with al meters
Zone	Circle	Division	Feeder	Total no of D	No. of unm	AMR metered (communica ble)	AMI metered (communica ble)	Non-AMR / AMI metered (non- communica ble)	Communica ting (Total no. out of 7 and 8)	Non- Communica ting (Total no. out of 7,8 and 9)
1	2	3	4	5	6	7	8	9	10	11
10	0%	DT	Me	teri	ng _l	proposed und	er RDSS			

b. Details of DT-wise losses (Please add more rows as per requirement)

Sub-station ID	Feeder ID	Feeder Name	DT Id no.	DT Capacity (kVA)	Predominant consumer type of DT DT (Domestic/Industrial/Agricultur e/Mixed)	Type of metering(Unmetered/AMI/AMR /Others)	Status of meter(Functional/non- functional)	% of data received automatically (If AMI/AMR)	No. of connected consumers	Input Energy (MU)	Billed Energy (MU)	Loss of Energy (MU)	% Loss
		1	2						3	4	5	6=4- 5	7=(6/4)*100
					100% DT	Meterin	g proj	posed	unde	r RDS	SS		

Note:-DT wise losses is not in account. 100% DT Metering proposed under RDSS

Subsidy details

B. Details of Consumer Category-wise Subsidy Billed/Received/Due for period: from April 2023 to March 2024.

Common Schagery (Superste for each authorities amounter coloques)		Commontou	-		Mint Story		-	teritori Milaji Crae	91	Authority or	tie nero of a nestified by a game.	Admin	Due from Do	eta Sort.	Supply Actually Stilled / Contract from	Solution Received Source District Contr. (Ass	Salarase Subside per to be Parament
	Metional	in onesi'	frui	Heterol	University of	Total .	Manufact (and of col.2)	(indefeat.2)	Total	Sterge**	Starte of	Haterad Storage	the restricted Stranger	Telsi	State Sort. (As against col.12)	option on 33)	From State Gret,
					Shi West			(in smot)		Distr	/swej		(H No.0-3		(946.0-2	(in the Gr.)	(in the str.
				1		6+5+3		10	2-516			10-222	32466	13-18-1	- 0	94	10+13-14
Residential	290046	672990	963036	743085618	1675036806	3418123425	743085618.0	3675036806	3418122425	2.50	2.98	192.54	434.02	626.57			
Ignodurii	1343	119	1463	#9632563	6223318	75956302	89632983.3	6323318-945	75956502.24	6.91	1.0	11.91	1.08	12.99			
Commercial/lindustrial-LT (commercial)	150693	31600	177383	280164820	124813706	404978326	200164019.7	124813706	404078525.7	2.38	2.30	66.54	29.65	-		_	
Commercial/Industrial-CT (Industrial)	18425	615	31040	85999128	242536	86245764	85999128.17	342635.8024	86241763.97	4.05	4.05	34.83	9.19	1000			
Commercial/Industrial-HT (HT Industry)	293	0	293	262372003	0	262372003	262372003.4	a	262372003,4	3.88	3.88	101.80	0.00	-			
Ceremercial/Industrial-HT (Power Intensive)	. 3		3	1305687	0	1305667	1305687		1305887	3.15	3.55	0.46	0.00				
Commercial/Industrial-HT (Bulk Sigsfy	136	3	139	52522063	409612	53011675	52522062.01	489612.2467	53011675.06	3.19	3.19	16.76	9.16				
Others (State/Central)	6050	393	6643	260726416	3464606	264241022	260776415.1	3464606.175	254241022.3	1.75	1.75	45.51	0.60	46.12			
Others (Street Lights)	158	19	244	8138909	3812409	11951318	8138908.913	3812409.162	11951318.37	0.50	0.50	0.41	0.19	0.60			
Others (LT PHIL)	327	113	440	20199738	4205775	24395513	20189718.42	4225774.894	24195513.31	0.50	0.50	1.01	8.21	1.32			
Others (HT 89E)	254	Ð	321	47846234	2417982	50254118	47846733.68	2417882.331	50264116.01	0.90	0.90	431	0.22	4.52		_	
Others (EV)	1	0	- 1	914580	0	914580	914580	a	914580	0.00	0.00	0.00	0.00	0.00		-	
Others (Traction)	- 1	9	3	4358073	0	4358073	4358073	0	4358073	3.50	3.50	0.37	0.00	0.37	-	-	
Total	459729	701279	1101000	1837306283	1820806752	3658113005	1837306253	1820805752	3458113005	-	1,000	476.45	666.23	-	-	_	

(Distribution) KPDCL

^{1.} The Subsidy rate for sub categories of commercial/Industrial-LT , Commercial/Industrial-HT and Others are different. So mentioned separately in above proforma

Subsidy rates are as per New Tariff order in vogue.
 The Account for Subsidy has been evaluated from Approved Tariff for JPDCL and KPDCL FY2022-23 (Page No viii to xii) and Full Cost Tariff (Page No 115 to Page No 121) defined in the Tariff Order 2022-23

Annexure -1: Proforma for Quarterly Consumer Category-wise Subsidy Billed/Received/Due for period January 2024 to March 2024

Consumer Category (Separate for each subsidized consumer category)		ConsumerCour	st .		Billed Energy			designed Billed Ener		Subsidy a	ble rate of a potified by a govt.	Subsidy	Due from St	ste Gost.	Subsidy Actually Billed / Calmed from	Substey Received from State	Salance Subsidy yes to be
	Returned	Str-metered*	Total	Returned	Un-meterad ^a	Total	Hetered (out of col.1)	Un-matered* (out of cal 3)	Total	Hetered Energy**	On-custored Energy**	Metared Energy	Un-outland Energy	Yotal	State Govt. (As against col.12)	Govt. (As squinet oxi.13)	Received from State Govt.
					(in AWN)			(in 108h)		(in R	(490)		(in Rs. Ds.)		(in Rs. Cr.)	(in Rs. Or.)	(in Rs. Cr.)
1 1				2	1	4=2+3	5	- 6	7=5+6		9	10=318	11=6x9	12=10+1	12	:14	15=13-14
Residential	290046	672990	963036	340452381	750180751	1090633132	340452381	750180750.9	1090633132	3.09	3.09	105.10	231.58	336.68			
Agricultural	1343	119	1462	2570693	3330210	5900904	2570593,475	3330210.138	5900903.613	2.97	2.97	0.76	0.99	1.75			
Commercial/Industrial-LT (commercial)	150693	26690	177383	99429990	57736745	157166735	99429990.14	57735744.97	157166735.1	2.63	2.63	26.16	15.19				
Commercial/Industrial-LT (Industrial)	10425	615	11040	20172412	61037	20233449	20172412.38	61036.73626	20233449.11	3.50	3.50	7.06	0.02	7.08			
Commercial/Industrial-HT (HT Industry)	293	0	293	83059045	0	83059045	83059044.74	a	83059044.74	3.52	3.52	29.22	0.00	29.22			
Commercial/Industrial-HT (Power Intensive)	3	0	3	520900	0	520900	520900	0	520900	4.17	4.17	0.22	0.00	0.22			
Commercial/Industrial-HT (Bulk Supply	136	3	139	22274693	182190	22456883	22274692.87	182190	22456882.87	3.51	3.51	7.82	0.06	-			
Others (State/Central)	6050	593	6643	125100965	3823746	128924711	125100964.9	3823746.014	128924710.9	1.03	1.03	12.84	0.39				
Others (Street Lights)	155	89	244	4563888	1925697	6489584	4563887.83	1925696.658	6489584.488	0.37	0.37	0.17	0.07	0.24			
Others (LT PHE)	327	113	440	9425483	2162163	11587646	9425483.035	2162162.613	11587645.65	0.37	0.37	0.35	0.08	0.43			
Others (HT PHE)	254	67	321	16698461	1727849	18426311	16698461.4	1727849.274	18426310.68	0.05	0.05	0.08	0.01	0.09			
Others (EV)	1	. 0	1	988650	0	988650	988650	0	988650	0.00	0.00	0.00	0.00	0.00			
Others (Traction)	3	0	3	1053420	0	1053420	1053420	0	1053420	3.50	3.50	0.37	0.00	0.37			
Total	459729	701279	1161008	726310982	821130387	1547441369	726310981.8	821130387.3	1547441369			190.14	248.39				

Note:

- 1. The Subsidy rate for sub categories of commercial/Industrial-LT , Commercial/Industrial-HT and Others are different. So mentioned separately in above proforma

(Distribution) KPDCL

2. Subsidy rates are as per New Tariff order in vogue.

The Account for Subsidy has been evaluated from Approved Tariff for JPDCL and KPDCL FY2023-24 (Page No 8 to 13) and Full Cost Tariff (Page No 167 defined in the Tariff Order 2023-