# **ANNUAL ENERGY AUDIT REPORT**



# **Designated Consumer**



# TATA POWER DELHI DISTRIBUTION

# LIMITED

NDPL House, Hudson Lines, Kingsway Camp, Delhi-110009

# FY 2023 -24

**Conducted** by



# **A-Z Energy Engineers Private Limited**

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# **List of Abbreviations**

| ADMS    | Advanced Distribution Management System                           |
|---------|---|
| ADR     | Automated Demand Response   |
| AMI     | Advanced Metering Infrastructure                                  |
| AMR     | Automated Meter Reading   |
| AMRUT   | Atal Mission for Rejuvenation and Urban Transformation            |
| AT&C    | Aggregate Technical and Commercial                                |
| BDR     | Behavioural Demand Response                                       |
| BEE     | Bureau of Energy Efficiency                                       |
| BLDC    | Brushless DC  |
| Ckt     | Circuit   |
| СТ      | Current Transformer   |
| DC      | Designated Consumer   |
| DEEP    | Discovery of Efficient Electricity Price                          |
| DISCOM  | Electricity Distribution Company                                  |
| DMS     | Distribution Management System                                    |
| DT      | Distribution Transformer  |
| EA      | Energy Auditor  |
| EHT     | Extra High Tension  |
| EHV     | Extra High Voltage  |
| EM      | Energy Manager  |
| ERP     | Enterprise Resource Planning                                      |
| FFA     | Field Force Automation  |
| FY      | Financial Year  |
| GIS     | Geographic Information System                                     |
| GIUNC   | Global Intelligent Utility Network Coalition                      |
| HT      | High Tension  |
| HVDS    | High Voltage Distribution System                                  |
| IPDS    | Integrated Power Development Scheme                               |
| kVA     | Kilo Volt Ampere  |
| LT      | Low Tension   |
| MoP     | Ministry of Power   |
| MU      | Million Units   |
| M&V     | Monitoring & Verification   |
| MW      | Mega Watt   |
| NO      | Nodal Officer   |
| OA      | Open Access   |
| OMS     | Outage Management System  |
| PAT     | Perform, Achieve and Trade  |
| POC     | Point of Connection   |
| PSS     | Packaged sub-station  |
| РТ      | Potential Transformer   |
| PX      | Power Exchange  |
| R-APDRP | Re-structured Accelerated Power Development and Reforms Programme |
| RDSS    | Revamped Distribution Sector Scheme                               |
| RE      | Renewable Energy  |
| RLDC    | Regional Load Dispatch Centre                                     |
| RLB     | Rural Local Bodies  |

| RPO   | Renewable Purchase Obligation            |
|-------|--|
| SCADA | Supervisory Control and Data Acquisition |
| SDA   | State Designated Agency                  |
| SLD   | Single Line Diagram                      |
| SLDC  | State Load Dispatch Centre               |
| T&D   | Transmission and Distribution            |
| ULB   | Urban Local Bodies                       |

# Acknowledgement

We would like to express our heartfelt gratitude to Tata Power Delhi Distribution Limited, Delhi for providing us with the opportunity to conduct Energy Audit of the DISCOM for FY 2023-24, in accordance with 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 Tata Power Delhi Distribution Limited, Delhi, for their invaluable cooperation and providing us with all the relevant information necessary for the successful completion of the Annual Energy Audit FY 2023-24.

We also extend our sincere thanks to the entire working group comprising of:

- Mr. Gajanan S. Kale CEO
- Mr. HC Sharma- General Manager (Nodal Officer)
- Mr. Davinder Bhatia DGM, (Energy Manager)
- Mr. Hari Om Sharma Head of Group, Energy Audit Group
- Ms. Gagandeep Kaur Senior Manager, Energy Audit Group

for their immense support and assistance throughout the audit process.

We look forward to a continued partnership with Tata Power Delhi Distribution Limited, Delhi, and we express our gratitude for their continued support in all our future endeavours.



Signature

Registered No: EmAeA-0024 Firm: A-Z Energy Engineers Pvt. Ltd.

# **1. Executive Summary**

Tata Power-DDL, a joint venture between Tata Power Company and the Government of NCT of Delhi with the majority stake being held by Tata Power (51%). It distributes electricity in North &Northwest parts of Delhi. The company started its operations on July 1, 2002, post the unbundling of erstwhile Delhi Vidyut Board to distribute electricity from Delhi Transco Limited end to the end consumers.

The Input energy purchased (from Generation source), Net Input energy(at Discom periphery after adjusting for transmission losses and traded energy) &Total Energy billed by Tata Power-DDL for their customers is 12686.10MU, 10660.43 MU & 10028.15MU respectively, for FY 2023-24, and the average monthly consumption stands at 412.46kWhr/per consumer/month.

Tata Power-DDL caters to network area spread in 5 circles, 12 Divisions across an area of 510 sq.kms.

### **1.1. Goals and Objectives**

Tata Power-DDL is a designated consumer in Discom sector. Being a designated Consumer, Tata Power-DDL ought to have Annual energy audit (Accounting) of their facilities as per BEE notification No. 18/1/BEE/Discom/2021 dated 6<sup>th</sup> October 2021.

The Annual Energy Audit & Accounting at Tata Power-DDL is conducted with the following Objectives:

- Verification of existing pattern of energy distribution across periphery of DISCOM.
- Verification of accounted energy flow submitted by DISCOM at all applicable voltage levels of the distribution network.
- Verification of the accuracy of the data collected, analysis of data with respect to consistency, improvement in accounting and reducing losses of DISCOM.
- Verification of the information submitted by DC to the SDA/BEE about status of Energy Input, Output and Losses for the previous two/three 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., 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 implementing energy efficiency and safety practices. They are empanelled by BEE for PAT M & V Audits and Mandatory Energy Audit Projects and have completed more than 1260 projects, including 52 PAT projects.

The founder Director, Shri. Dr PP 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 are 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.

# 1.3. AT&C losses for FY 2023-24

The AT&C loss for FY 2023-24 for TATA Power-DDL stands at 5.92%, which is approximately same as the T&D (Transmission and Distribution) losses as the collection efficiency has been close to 100.01%. The AT&C losses for the FY 2023-24 are shown in the table below:

| Energy Input Details                                    | Formula                | UoM | Value    |
|---|------------------------|-----|----------|
| Input Energy Purchase (From Generation Source)          | А                      | MU  | 12686.10 |
| Net input energy (at DISCOM Periphery after             |                        |     |          |
| adjusting the transmission losses and energy            | В                      | MU  | 10660.43 |
| traded)   |                        |     |          |
| Total Energy billed (is the Net energy billed, adjusted | C                      | МП  | 10028-15 |
| for energy traded)                                      | C                      | 110 | 10020.13 |
| Transmission and Distribution (T&D) loss Details        | D                      | MU  | 632.28   |
|   | E = D/B x 100          | %   | 5.93%    |
| Collection Efficiency                                   | F                      | %   | 100.01%  |
| Aggregate Technical & Commercial Loss                   | G = 1-{(1-E) x Min (F, | %   | 5.92%    |
|   | 100%)                  |     |          |

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

# 2. Background

### 2.1. Extant Regulations and role of BEE

### 2.1.1. Objectives of BEE

- To develop policies and programmes on efficient use of energy and its conservation with the involvement of stakeholders.
- To plan, manage and implement energy conservation programmes as envisaged in the Energy Conservation Act, 2001
- To assume leadership and provide policy framework and direction to national energy efficiency and conservation efforts and programmes.
- To demonstrate energy efficiency delivery mechanisms, as envisaged in the Energy Conservation Act, 2001, 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 programmes 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 organizations 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 &labeling 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 29<sup>th</sup> 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 6<sup>th</sup> 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 17<sup>th</sup> 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:



#### 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 and Quarterly Periodic Energy Accounting with necessary pre-requisites and reporting requirements to be met.

### 2.2. Purpose of audit and accounting Report

Tata Power-DDL is a designated consumer in Discom sector. Being a designated Consumer, Tata Power-DDL need to have Annual and Quarterly Energy Audit and Accounting of its facilities as per BEE notification No 18/1/BEE/Discom/2021 dated 6<sup>th</sup> 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 and 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.

# 2.3. Period of Energy Auditing and accounting

Energy audit activity was started with a meeting at Head Office of Tata Power-DDL in the month of May & June' 2024. Based on the requirement, visit was made to Division, Subdivision and Grid etc. for data collection and technical discussion. The period of study was from April 2023 to March 2024.

| Particulars             | Energy Accounting                                |              |              |  | Energy Audit |
|-------------------------|--|--------------|--------------|--|--------------|
|                         | Q1   | Q2           | Q3           | Q4   | FY 2023-24   |
| Applicable period       | 01-Apr-23 to                                     | 01-Jul-23 to | 01-Oct-23 to | 01-Jan-24 to   | 01-Apr-23 to |
|                         | 30-Jun-23  | 30-Sep-23    | 31-Dec-23    | 31-Mar-24  | 31-Mar-24    |
| Date of<br>Commencement | 01-July-23                                       | 04-Oct-23    | 04-Jan-24    | 05-Apr-24  | 06-Apr-24    |
| Date of Publishing      | 13-Oct-23  | 02-Jan-24    | 01-Mar-24    | 02-June-24   | -            |
| Officer In charge       | Mr. Hari Om Sharma (Head of Group, Energy Audit) |              |              | Dr. P P Mittal<br>[AEA 0011]<br>Registration<br>No: EmAEA-<br>0024 |              |

# Table 2: Period of Energy Auditing and Accounting

# 3. DISCOM Introduction and Overview

### 3.1. Name and address of DISCOM

Tata Power-DDL is having its corporate office at NDPL House, Hudson Lines, Kingsway Camp, Delhi – 110009

| Particulars | Details  |  |  |
|-------------|--|--|--|
| NameofDC    | Tata Power Delhi Distribution Limited                                    |  |  |
| Address     | NDPL House, Hudson Lines, Kingsway Camp, Delhi-09, P.O. GTB Nagar, Delhi |  |  |

#### Table 3: Name and Address of DISCOM

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

Energy Accounting/Audit wing is headed by Mr. Gajanan S. Kale (CEO). BEE certified Energy Manager, Mr. Davinder Bhatia (DGM) is leading the energy accounting activities in Tata Power-DDL. Mr. H C Sharma (GM) is Authorized Signatory/ Nodal Officer. The details of DISCOM's energy manager and authorized signatory for this report are shown below:

| Particulars          | Details   |
|----------------------|---|
|                      | Mr. Davinder Bhatia (DGM) EM                    |
| Energy Manager       | Mobile: 9599819561                              |
|                      | Email: <u>davinder.bhatia@tatapower-ddl.com</u> |
| Authorized Signatony | Mr. HC Sharma (General Manager)                 |
| Authorized Signatory | Ph: 91-1166050595                               |

#### Table 4: Details of Energy Manager and Authorized signatory of DISCOM

#### 3.3. Summary profile of DISCOM

#### 3.3.1. Jurisdiction of DISCOM

Tata Power Delhi Distribution Limited [Tata Power-DDL] is a joint venture between Tata Power and the Government of NCT of Delhi with the majority stake being held by Tata Power Company (51%). Tata Power-DDL is acknowledged for its consumer-friendly practices. Since privatization, the Aggregate Technical & Commercial (AT&C) losses in Tata Power-DDL area have shown a record decline. Tata Power-DDL Strives to Serve Utilities across the globe to improve their standards of performance and create long term value with their strategic partners. Its distribution network is spread over an area of 510 sq. km covering 5 circles, 12 Divisions, catering to a customer base of over 2 million.

# 3.3.2. Energy Accounting/Audit wing in the DISCOM:

The Energy Accounting/Audit wing in the DISCOM has been established on 11-Feb-22. The Organogram of the DISCOM wrt Energy Auditing and Accounting is as shown below:





#### Table 5: Details of Energy Manager and Authorized signatory of DISCOM

| Designation                     | No. of Officers     |
|---------------------------------|---------------------|
| CEO                             | Mr. Gajanan S. Kale |
| General Manager (Nodal Officer) | Mr. HC Sharma       |
| DGM (Energy Manager)            | Mr. Davinder Bhatia |
| Head of Group, Energy Audit     | Mr. Hari Om Sharma  |
| Sr. Manager, Energy Audit       | Mr. Neeraj Singh    |
| Sr. Manager, Energy Audit       | Ms. Gagandeep Kaur  |
| Finance Manager                 | Mr. Sachin Gupta    |
| IT Manager                      | Ms. Kamakshi Oberoi |

# 3.3.3. Administrative hierarchy

Tata Power-DDLis having its corporate office at NDPL House, Hudson Lines, Kingsway Camp, Delhi-09 and has 5 Circles. These Circles are further divided into Divisions, Sub-Divisions and Sections as shown in the below tables.

#### Table 6: Administrative hierarchy structure in Tata Power-DDL

| Parameters              | Value |
|-------------------------|-------|
| Number of circles       | 5     |
| Number of divisions     | 12    |
| Number of sub-divisions | 31    |
| Number of sections      | -     |

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

#### Table 7: Administrative hierarchy in Tata Power-DDL up to section level

| Circle           | Division      | Sub-Division | Section        |
|------------------|---------------|--------------|----------------|
|                  |               | 1301         |                |
| City             | Moti Nagar    | 1302         |                |
| City             | wou wagar     | 1303         |                |
|                  |               | 1304         |                |
|                  |               | 507          |                |
|                  | Badli         | 516          |                |
|                  |               | 572          |                |
|                  |               | 551          |                |
|                  | Pohini        | 561          |                |
| Urbon            | KUIIIII       | 571          |                |
| Urban            |               | 581          |                |
|                  | Shalimar Bagh | 414          |                |
|                  |               | 503          | Not Applicable |
|                  |               | 506          |                |
|                  |               | 531          |                |
|                  |               | 532          |                |
|                  |               | 512          |                |
|                  | Bawana        | 521          |                |
|                  |               | 533          |                |
| Sub-Urban Circle |               | 511          |                |
|                  | Narala        | 514          |                |
|                  | Nareia        | 517          |                |
|                  |               | 522          |                |
| Town Cirolo      | Civil Lines   | 411          |                |
| Town Circle      | CIVII LINES   | 416          |                |

| Circle       | Division     | Sub-Division | Section |
|--------------|--------------|--------------|---------|
|              |              | 417          |         |
|              |              | 418          |         |
|              |              | 421          |         |
|              |              | 423          |         |
|              |              | 424          |         |
|              |              | 402          |         |
|              |              | 412          |         |
|              | Model Town   | 413          |         |
|              |              | 415          |         |
|              |              | 505          |         |
|              |              | 501          |         |
|              |              | 502          |         |
|              | Keshavpuram  | 509          |         |
|              |              | 520          |         |
|              |              | 422          |         |
|              |              | 425          |         |
|              | Kirari       | 523          |         |
|              | Kirdii       | 513          |         |
|              |              | 515          |         |
| Metro Circle | Mangolpuri   | 518          |         |
|              |              | 519          |         |
|              |              | 504          |         |
|              | Ditam Dura   | 508          |         |
|              | FILAIII FUIA | 510          |         |
|              |              | 530          |         |

# **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 Conn | ections | Connected Load |       | Billed Energy |      | Billed<br>Amount in | Collected<br>Amount in<br>Rs. |
|------------------------------|-------------|---------|----------------|-------|---------------|------|---------------------|-------------------------------|
|                              | Nos         | %       | MW             | %     | MU            | %    | Rs. Crore           | Crore                         |
| Residential                  | 1729505     | 85.4%   | 3752.28        | 55.2% | 4925.85       | 49%  | 3359.98             | 3362.98                       |
| Agricultural                 | 4466        | 0.2%    | 33.82          | 0.5%  | 15.34         | 0%   | 11.67               | 11.95                         |
| Commercial/<br>Industrial-LT | 282712      | 14.0%   | 2368.41        | 34.8% | 3779.90       | 38%  | 5850.22             | 5848.75                       |
| Commercial/<br>Industrial-HT | 802         | 0.04%   | 342.50         | 5.0%  | 656.16        | 7%   | 959.96              | 960.01                        |
| Others                       | 8619        | 0.4%    | 300.10         | 4.4%  | 650.90        | 6%   | 712.44              | 712.11                        |
| Total                        | 2026104     | 100%    | 6797.11        | 100%  | 10028.15      | 100% | 10894.28            | 10895.80                      |



#### Figure 3: Category wise consumer share

Figure 4: Category wise Load share



#### Figure 5: Category wise Billed Units



# 3.4. Electrical infrastructure and assets voltage wise

The following table provides the details of network infrastructure owned by Tata Power-DDL:

| Asset | Particulars                          | Unit    | FY20-21  | FY21-22  | FY22-23  | FY 23-24   |
|-------|--------------------------------------|---------|--|--|--|--|
| 66 kV | 66/ 11 kV Sub station                | Nos     |  |  | 42   |  |
| and   | 66 kV Feeders                        | Nos     | 134  | 132  | 137  | 142  |
| above | 66 kV Line                           | Ckt. km | 536.92   | 538.7  | 554.01   | 567  |
|       | 33/ 11 kV Sub station                | Nos     |  |  | 42   |  |
| 33 kV | 33 kV Feeders                        | Nos     | 108  | 108  | 111  | 115  |
|       | 33 kV Line                           | Ckt. km | 477.11   | 477.3  | 482.19   | 519.65   |
|       | 11 kV Feeders                        | Nos     | 1280   | 1341   | 1286   | 1312   |
| 11 kV | 11 kV Overhead Line                  | Ckt. km | 4999.2   | 5132   | 5236.9   | 2209   |
|       | 11 kV Underground Line               | Ckt. km |  |  | 3028   | 3154   |
| LT    | LT Line                              | Ckt. km | 7354.1   | 7485   | 7588   | 7809.1   |
| РТ    | Power Transformer                    | Nos     |  |  | 219  | 222  |
| • •   | Power Transformer Capacity           | MVA     | -  | -  | 5143   | 5267   |
| DT    | Distribution Transformer             | Nos     | Above<br>250kVA-<br>4594 nos.,<br>equal to<br>and less<br>than<br>250kVA-<br>2654 nos. | Above<br>250kVA-<br>4744 nos.,<br>equal to<br>and less<br>than<br>250kVA-<br>2804 nos. | Above<br>250kVA-<br>4986 nos.,<br>equal to<br>and less<br>than<br>250kVA-<br>3171 nos. | Above<br>250kVA-<br>5210nos.,<br>Equal to<br>and less<br>than<br>250kVA-<br>3481 |
|       | Distribution Transformer<br>Capacity | MVA     |  |  | 3421.1   | 3575.4   |

#### **Table 9: Network Infrastructure details**

The Input energy, consumption, transmission losses and key infrastructure details of Tata Power-DDL are summarized in table below:

#### Table 10: Input Energy & Infrastructure details

| Parameters  | FY 2023-24  |
|---|-------------|
| Input Energy purchased (MU)   | 12686       |
| Transmission loss (%)   | 4%          |
| Transmission loss (MU)  | 526.473144  |
| Energy sold outside the periphery (MU)  | 1501.583217 |
| Open access sale (MU)   | 85.865      |
| EHT sale  | 208.938     |
| Net input energy (received at DISCOM periphery or at distribution point)-(MU) | 10742.30    |
| 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   | 70%         |

| Parameters                                  | FY 2023-24  |
|---|-------------|
| % of metering available at consumer end     | 100%        |
| No of feeders at 66kV voltage level         | 142         |
| No of feeders at 33kV voltage level         | 115         |
| No of feeders at 11kV voltage level         | 1312        |
| No of LT feeders level                      | 17527       |
| Line length (ckt. km) at 66kV voltage level | 567         |
| Line length (ckt. km) at 33kV voltage level | 519.65      |
| Line length (ckt. km) at 11kV voltage level | 5363        |
| Line length (km) at LT level                | 7809.1      |
| Length of Aerial Bunched Cables             | 5822        |
| Length of Underground Cables                | 6571.7      |
| HT/LT ratio                                 | 0.825914638 |

# 3.4.1. Meteringdetails

The status of meters installed in Tata Power-DDL as on 31-03-24 are given in the below tables:

| Parameters  | 66kV and<br>above | 33kV | 11/22kV | LT      |
|---|-------------------|------|---------|---------|
| Number of conventional metered consumers            | 0                 | 0    | 0       | 1593831 |
| Number of consumers with 'smart' meters             | 0                 | 0    | 0       | 394120  |
| Number of consumers with 'smart prepaid' meters     | 0                 | 0    | 0       | 3474    |
| Number of consumers with 'AMR' meters               | 8                 | 4    | 897     | 29849   |
| Number of consumers with 'non-smart prepaid' meters | 0                 | 0    | 0       | 3921    |
| Number of unmetered consumers                       | 0                 | 0    | 0       | 0       |
| Number of total consumers                           | 8                 | 4    | 897     | 2025195 |

# Table 11: Voltage wise Meter Consumers

# 3.4.2. Distribution Transformer (DT) details

The details of distribution transformers inTata Power-DDL as on 31-03-24 are given in the below tables:

#### Table 12: Numbers of Distribution Transformers and Metering

| Parameters   | 66kV and<br>above | 33kV | 11/22kV | LT |
|--|-------------------|------|---------|----|
| Number of conventionally metered Distribution Transformers | -                 | -    | 260     | -  |
| Number of DTs with communicable meters                     | -                 | -    | 5861    | -  |
| Number of unmetered DTs                                    | -                 | -    | 2570    | -  |
| Number of total Transformers                               | -                 | -    | 8691    | -  |

# 3.4.3. Feeder details

The details of feeders in Tata Power-DDL as on 31-03-24 are given in the below tables:

#### 66kV and 33kV Parameters 11/22kV LT above Number of metered feeders 142 115 1312 0 Number of feeders with communicable meters 142 115 1312 0 0 0 17527 Number of unmetered feeders 0 Number of total feeders 142 1312 115 17527

# Table 13: Voltage wise numbers of Feeders and Metering

### 3.4.4. Distribution Line details

The details of distribution lines in Tata Power-DDL as on 31-03-24 are given in the below tables:

#### Table 14: Length of Distribution Lines

| Particulars                     | Value(km) |
|---------------------------------|-----------|
| Line length (ckt km)            | 1865      |
| Length of Aerial Bunched Cables | 5822      |
| Length of Underground Cables    | 6571.7    |

# 3.4.5. Energy Flow details

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

#### Table 15: Energy Flow details

| Parameters  | Values      |
|---|-------------|
| Input Energy purchased (MU)   | 12686       |
| Transmission loss (%)   | 4%          |
| Transmission loss (MU)  | 526.473144  |
| Energy sold outside the periphery(MU)   | 1501.583217 |
| Open access sale (MU)   | 85.865      |
| EHT sale  | 208.938     |
| Net input energy (received at DISCOM periphery or at distribution point)-(MU) | 10742.30    |
| Total Energy billed (MU)  | 10028.15    |
| Transmission and Distribution (T&D) Loss (MU)                                 | 632.28      |
| T&D Loss (%)  | 5.93%       |

# 3.4.6. Pattern of energy distribution

#### Power Purchase:

During the analyzed period, Tata Power-DDL purchased energy of 12686.10 million units (MUs) in FY 2023-24. The company's energy purchase varies considerably from month to month depending upon seasonal impact.

#### **Energy Billed:**

Category wise – consumer count and energy consumption has been provided in table below. Maximum energy consumption has been recorded against domestic consumers.

| Valtagel aval                          | Consu     | umers  | Energy Consumption |        |  |  |  |
|--|-----------|--------|--------------------|--------|--|--|--|
| voltageLevel                           | No.       | %Share | MUs                | %Share |  |  |  |
| Domestic                               | 1,729,505 | 85.36% | 4,925.85           | 49.12% |  |  |  |
| HT Industrial                          | 802       | 0.04%  | 656.16             | 6.54%  |  |  |  |
| LT Industrial                          | 282712    | 13.95% | 3779.9036          | 37.69% |  |  |  |
| Agricultural                           | 4466      | 0.22%  | 15.341482          | 0.15%  |  |  |  |
| Others-3 (if any , specify in remarks) | 8619      | 0.43%  | 650.89633          | 6.49%  |  |  |  |
| Total                                  | 2,026,104 | 100%   | 10,028.15          | 100%   |  |  |  |

#### Table 16: Consumer category wise consumption pattern

Circle wise Energy Input and Energy Billed has been shown below:





### 3.4.7. Salient features

Tata Power-DDL 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

To be the most trusted and admired provider of reliable, competitive and sustainable power and services using technology and innovative solutions and be the utility of choice for all stakeholders.

#### b) Mission

- Our mission is **to deliver world class services to the customer** and to create benchmarks to become a global utility leader with energy efficient services and energy solutions. Innovate to Deliver World Class Services to the Consumers.
- Create Benchmarks to become a Global Utility Leader with Energy efficient services and clean energy solutions.
- Achieve Excellence Through Safety, Technology Adoption, Collaborations and Teamwork.
- Reach out and Engage in Community Development Programs and Initiatives.
- Empower Employees, Enrich Creativity and Enhance Learning.

#### c) Core Values

Tata Power-DDL is a value-driven organisation and there are Six Core values as an integral part of its work culture.

#### Figure 7: Core Values of TATA Power-DDL



### 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. Energy conservation measures that have already been taken and proposed for the future are explained below.

- **1.** Energy Conservation Measures taken by Tata Power DDL for Network strengthening and Loss Reduction:
- Sub-Transmission Network Optimization: Tata Power-DDL has mesh network at 33 & 66 kV level which is operated in a radial manner. The NOPs (Normal Open Points) are decided after conducting thorough loss studies and the most optimal configuration is adopted for minimizing loss while meeting other operational & reliability requirements. The exercise is conducted annually to incorporate benefits from addition of new circuits. Also a separate configuration is adopted for the winter months (Nov to Mar) to take advantage of lower loading levels. The winter reconfiguration result is expected saving of approximately 0.6 GWh annually.
- 11 kV Network Optimization: The 11kV network is also a mesh network operated in a radial manner. TATA Power-DDL has initiated an internal project in FY23-24 to reconfigure the network for minimizing loss while meeting other operational & reliability requirements. This is expected to contribute to reduction in technical loss by over 0.5 GWh annually.
- 3. **Change in Cable Specifications:** Due to operational requirements, the standard rating of service cable catering to single phase consumers with sanctioned load of 6 to 10 kW has been revised from 2x10 sq.mm. Al XLPE to 2x25 sq.mm. Al XLPE. The reduction in resistivity has resulted in reduction of technical losses.
- 4. Energy Management Systems: The Company has implemented energy management systems to monitor and control energy consumptions in grids, office buildings, to identify areas of energy waste, and optimize energy usage. TATA Power-DDL has already been certified with EnMS Standard ISO 50001:2018.
- Procurement of Renewable Energy: The Company has increased the use of renewable energy sources, such as solar and wind power to reduce dependency on fossil fuels and contribute to reduce carbon emissions.
- Periodic and Annual Energy Audits: Regular energy audits are conducted to identify energy waste and implement measures to reduce it. Also 3<sup>rd</sup> party ISO 50001 Audit is being conducted annually prior to re-certification of ISO standard.
- Use of Co-axial co-extruded Cables in 11 kV network: With use of co-extruded cables in 11 kV network, has resulted in increased life span of cables and efficiency improvement in terms of power reliability and delivery.
- 8. Smart DT Meters with DIDO (Digital Input/Output): Smart DT meters installed for Distribution transformers, are being installed in network with added feature of DI/DO (digital input and digital output) port. These digital ports in meters can be connected to float sensors installed inside conservation oil tank for monitoring of oil levels of DT. When oil level dips below required level, smart digital ports connected to breaker would trip off the power supply to DT and would prevent from any overheating/ damage to DT. This has

been included by CEA "Guidelines and best practices for Operation and Maintenance of Distribution Transformers".

- 9. Li-ion battery with BMS (battery management system): For providing DC supply in grid sub-stations, conventional batteries used were of lead acid type. Gradually these type of batteries are now replaced with Li-ion batteries. Benefits of Li-ion over conventional are 90% of depth of discharge than 60%, 95% efficiency, non-hazardous disposal, less charging time, high specific energy output etc.
- 10. **Energy efficient Distribution Transformers:** Loss levels and efficiency levels for distribution and power transformers have been already defined and set in our technical specifications for OEMs (original equipment manufacturers) to comply with.
- 11. **Mineral oil vs. Ester oil:** Conventionally, petroleum based mineral oil is being used as dielectric medium in transformers. Ester oil has been introduced now with features of High flash point of 330 deg C providing high level of fire safety, Chemical properties of ester oil enhances DT insulation performance and life expectancy, Insulation system of distribution transformer can be run at 20°C warmer conditions, thus increasing the loading capability of transformer for the same life expectancy. Transformer with ester oil can operate better in areas with high ambient temperature.
- 12. RF based street light management system: Radio frequency based remote monitoring and operations of LED street light projects are being implemented. Main features include 'Dimming' of lights during non-peak hours and 'ON/OFF' feature based on Astro timer switch. Energy management through Street light controller would reduce energy consumption and CO2 emission. Unnecessary over-lighting can be prevented by target dimming of sectors of the city, roads or individual luminaires. Thus, the SLC (street light controller) can be used to make effective and consistent energy savings –approximately up to 50% per year.
- 13. **Sub-station re-designing for space constrained areas:** To cater to ever increasing load requirements, few occurrences of space constraints are part of network designing. For such space constrained areas, new designs of sub-stations are proposed. Few new designs are Vertical double decker sub-station, wherein two DTs would be placed up and down in double tier arrangement; DT installation of single spun pole with LT and HT switches beneath the mounted DT; Drain top based sub-station where no space is available etc.

TATA Power-DDL has always been frontrunner in choosing energy efficiency practices for building a sustainable greener tomorrow. The DISCOM has already undertaken sustainable initiative in scheme named 'Urja Arpan'.

- Demand Side Management/ behavioural Demand Response Program: Raising awareness among individuals and organizations about responsible and efficient electricity consumption. Till now, 1 lac + enrolled customers have participated, achieving 560 MW cumulative load shed in 16 BDR events.
- **Energy Efficient Lighting and Fans:** Energy efficient BLDC fan scheme: Tata Power-DDL is offering Energy Efficient Products (EEPs) such as LED Bulbs and LED Tube Lights which have low maintenance and usage costs. These are durable and use up to 75% less

energy than any other incandescent bulbs resulting in the reduction of monthly energy bills.

In addition to lighting, option for BLDC fans at discounted rates is available. BLDC fans provide high cooling efficiency with lower energy consumption and also savings in electricity bills. BLDC motors do not have brushes so they are more reliable, high life expectancy and energy savings as compared to conventional ceiling fans. With the added convenience of remote control, BLDC fan is a financially and environmentally smart choice for customers as it consumes half electrical load as compared to ordinary fans.

- Launch of Clean Cooling Program with discount based Energy efficient ACs Scheme for Customers: Tata Power-DDL in association with Voltas, Blue Star, General, Godrej, Hitachi is providing a discount-based scheme with or without Replacement of Old AC for all the customers.
- Home Automation: Tata Power-DDL is offering an IoT based solution which allows to operate, schedule, monitor appliances like lighting, fans, ACs, washing machines, geysers, TVs, refrigerators, etc. with phone or with voice control via Google assistant or Alexa.
- Home Automation (Sensors & Sensor Lights): With Motion sensors, lights and appliances can be switched on during presence of a person in the area. In absence of motion, automatically turn off the lights. When motion is detected, sensor lights automatically illuminate at full brightness. In the absence of motion automatically dim the area lights to 20%.
- Air Purifier Scheme: Tata Power-DDL in association with Voltas has initiated the Air Purifiers scheme at special discounted rates. The Air Purifiers are powered with 6-stage filtration process and removes up to 99.90% airborne pollutants, eliminates impurities with ease.
- **Washing Machine Scheme:** Tata Power-DDL has launched a 5 star rated washing machine scheme at special discounted rates in collaboration with Voltas-Beko.
- Digitization/ Adoption of digital lifestyle: By reducing paper consumption, and exploring digital alternatives, TATA Power-DDL contributes to environmental conservation and decreased carbon footprints, thus fostering a greener and eco-friendly workplace. E-billing is being adopted for consumer billing.
- **Supporting green initiatives:** Participation in local environmental programs, such as tree planting and clean-up drives.
- Celebration of Earth Day on 22<sup>nd</sup>April every year: As a collective responsibility to nurture and protect Mother Earth, DISCOM is urging consumers to shut down their power for 1 hour on Earth Day.

# Some other Energy Conservation measures planned for future by TATA Power-DDL are mentioned below:

- 1) Solid insulated switchgears
- 2) Dry type Transformers
- 3) Plastic packaging prohibition
- 4) Cobalt free silica gels in transformer breathers
- 5) Water harvesting in grid sub-stations
- 6) Meter plastic box re-usage
- GIS: Apps for route optimization and hence reduction in cable/ line lengths and hence technical losses
- 8) Recycled aggregate made out of construction and demolition waste in concrete mixtures
- 9) Direct delivery of material at site, thus saving in additional transportation requirements, contributing to lowering carbon emissions
- 10) Recycling used carton boxes and plastics through NGO
- 11) Scrapping of meters and then segregation of scrap for re-usage.

# 4. Energy flow analysis

### 4.1. Energy flow across 5 Service Levels

a) Energy flow between DTL 220KV Grid Substations to Tata Power DDL 66kV/33kV Grid Substation

b) Energy flow between DTL 220 KV Grid Substations and Tata Power DDL 11kV/6.6 kV Substations

c) Energy flow between 11kV/6.6kV feeders and distribution transformers, or high voltage distribution system

d) Energy flow between distribution transformer, or high voltage distribution system to end consumer

e) Energy flow between Feeders to end-consumer

#### Figure 8: Energy Flow Diagram



# 4.2. Validation of metered data

**a) Validation of feeder data:** Based on data available for 11 kV Feeder meters at substation, for a sample size of 10% for which documentary evidence has been captured in the audit report.

Data of 10% of 11 kV Feeder meters:

| Table | 17: | Data | of | 10% | 11kV | feeder | Meters |
|-------|-----|------|----|-----|------|--------|--------|
|       |     |      | _  |     |      |        |        |

|         |      |                   |  | FY 23-24           | FY 22-23           |
|---------|------|-------------------|--|--------------------|--------------------|
| Sr. No. | Zone | Station           | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 1       | 402  | AZADPUR GRID      | AZADPUR GRID TO G-1<br>G.T.K   | 1.18               | 1.94               |
| 2       | 415  | AZADPUR GRID      | AZADPUR GRID TO D-<br>BLOCK SUBZI MANDI                                | 0.7                | 2.27               |
| 3       | 412  | AZADPUR GRID      | AZADPUR GRID TO TAXI<br>STAND  | 0.2                | 0.16               |
| 4       | 402  | AZADPUR GRID      | AZADPUR GRID TO H<br>BLOCK MODEL TOWN                                  | 0.56               | 0.42               |
| 5       | 412  | AZADPUR GRID      | AZADPUR GRID TO<br>NANIWALA BAGH-3                                     | 3.06               | 2.9                |
| 6       | 415  | AZADPUR GRID      | AZADPUR GRID TO<br>KEWAL PARK  | 0.61               | 0.36               |
| 7       | 402  | AZADPUR GRID      | AZADPUR GRID TO RAB<br>DA KUTTA  | 1                  | 0.63               |
| 8       | 415  | AZADPUR GRID      | AZADPUR GRID TO<br>ADARSH NAGAR POLICE<br>STATION                      | 1.72               | -0.51              |
| 9       | 415  | AZADPUR GRID      | AZADPUR GRID TO<br>INDIRA NAGAR  | 0.86               | 0.07               |
| 10      | 402  | AZADPUR GRID      | AZADPUR GRID TO A-<br>BLK GUJARAWALA<br>TOWN                           | -2.27              | 1.32               |
| 11      | 415  | AZADPUR GRID      | AZADPUR GRID TO JAL<br>BOARD PUMP HOUSE<br>KEWAL PARK                  | 0.58               | 1.88               |
| 12      | 402  | AZADPUR GRID      | AZADPUR GRID TO A<br>BLOCK GTK   | 0.26               | 0.03               |
| 13      | 415  | AZADPUR GRID      | AZADPUR GRID TO<br>PANCHWATI   | 0.32               | -0.03              |
| 14      | 415  | AZADPUR GRID      | AZADPUR GRID TO<br>METRO STATION<br>ADARSH NAGAR S/S                   | 0.92               | -0.16              |
| 15      | 505  | AZADPUR GRID      | AZADPUR GRID TO<br>INTERCONNECTOR 1 &<br>2 TO JAHANGIRPURI<br>GRID S/S | 2.16               | 2.39               |
| 16      | 412  | AZADPUR GRID      | AZADPUR GRID TO<br>MODEL TOWN -2                                       | 0.21               | 0.54               |
| 17      | 402  | AZADPUR GRID      | AZADPUR GRID TO<br>DISTT. OFFICE MODEL<br>TOWN                         | 0.02               | -0.72              |
| 18      | 506  | SMB - KHOSLA GRID | SMB KHOSLA GRID TO<br>7B S/S   | -0.24              | 0.11               |

|         | Name of the |                   |  | FY 23-24 FY 22-23  |                    |  |
|---------|-------------|-------------------|--|--------------------|--------------------|--|
| Sr. No. | Zone        | Station           | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |  |
| 19      | 531         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO AMBIENCE MALL                 | 0.6                | 0.63               |  |
| 20      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO AGM OFFICE S/S                | 0.43               | 0.21               |  |
| 21      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO DLF MALL                      | -0.07              | -0.03              |  |
| 22      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO 1 B S/S                       | 0.69               | 0.63               |  |
| 23      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO 5 B S/S                       | 0.33               | -0.35              |  |
| 24      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO PRAGYA MALL S/S               | -0.15              | -0.17              |  |
| 25      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO 10 B S/S                      | 0.66               | 0.77               |  |
| 26      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO 13 B S/S                      | 1.44               | 1.41               |  |
| 27      | 506         | SMB - KHOSLA GRID | SHALIMAR BAGH GRID<br>TO 6 B S/S                       | -0.15              | 0.29               |  |
| 28      | 507         | BADLI GRID        | BADLI GRID TO GALI<br>NO-3 SAMAYPUR<br>(ZONAL OFFICE)  | 0.44               | 1.78               |  |
| 29      | 516         | BADLI GRID        | BADLI GRID (NW) TO<br>BIA S/S NO-4                     | 0.01               | 1.39               |  |
| 30      | 581         | BADLI GRID        | BADLI GRID TO<br>SECTOR-18 (O/D)                       | 1.06               | 1                  |  |
| 31      | 507         | BADLI GRID        | BADLI GRID TO GALI<br>NO-9 SAMAYPUR                    | 2.8                | 8.81               |  |
| 32      | 516         | BADLI GRID        | BADLI GRID (NW) TO<br>B.S.CHEMICAL                     | 2.79               | 1.47               |  |
| 33      | 516         | BADLI GRID        | BADLI GRID (NW) TO<br>BIA S/S NO-3 PH-3                | 0.33               | 0.15               |  |
| 34      | 507         | BADLI GRID        | BADLI GRID (NW) TO<br>CETP + DTU NO-4 (O/D)            | 2.29               | 1.38               |  |
| 35      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>TIKRI SEWAGE PLANT<br>(O/D) S/S | -1.13              | -1.58              |  |
| 36      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>BAKHTAWAR PUR - 1               | 2.48               | 3.16               |  |
| 37      | 511         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>ALIPUR -1                       | 0.85               | 0.61               |  |
| 38      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>NIT FEEDER NO-2                 | 2.05               | 4.38               |  |
| 39      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>ALIPUR - 2                      | 2.54               | -5.75              |  |
| 40      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>RENNY WELL                      | 6.7                | 4.28               |  |
| 41      | 517         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>BAKHTAWAR PUR - 2               | 1.05               | 0.38               |  |
| 42      | 572         | AIR KHAM PUR GRID | AIR KHAMPUR GRID TO<br>ALIPUR - 3                      | 1.42               | 0.58               |  |

|         |      | Name of the            |   | FY 23-24           | FY 22-23           |
|---------|------|------------------------|---|--------------------|--------------------|
| Sr. No. | Zone | Station                | Feeder Name   | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 43      | 415  | AZADPUR GRID           | AZADPUR GRID TO<br>SUBZI MANDI NO-1 FDR                         | -0.12              | 0.28               |
| 44      | 517  | AIR KHAM PUR GRID      | AIR KHAMPUR GRID TO<br>KHERA KALAN                              | 1.81               | 1.44               |
| 45      | 520  | ROHTAK ROAD GRID       | ROHTAK ROAD GRID TO<br>RAMPURA-3                                | 1.04               | 1.25               |
| 46      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>SYLVANIA                                   | 0.16               | 0.51               |
| 47      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>37 RAMA ROAD                               | -1.48              | -1.27              |
| 48      | 1301 | RAMA ROAD GRID         | BREAK FAST  | -0.29              | 0                  |
| 49      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>41 RAMA ROAD FEEDER<br>NO-2                | 0.47               | 0.18               |
| 50      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>70 RAMA ROAD                               | 0.76               | -0.19              |
| 51      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>69 NG ROAD S/STN VIA<br>56-B RAMA ROAD S/S | 0.35               | 1.99               |
| 52      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>MOTI NAGAR KIOSK                           | 0.33               | 0.71               |
| 53      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>41 RAMA ROAD FEEDER<br>NO-1                | 0.98               | 5.35               |
| 54      | 1301 | RAMA ROAD GRID         | RAMA ROAD GRID TO<br>58 RAMA ROAD                               | 1.02               | 0.5                |
| 55      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO-32 D-BLOCK                            | 0.17               | 0.24               |
| 56      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO-34 F-BLOCK                            | 0.73               | 0.38               |
| 57      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO-9 A-BLOCK                             | 4.16               | 4.28               |
| 58      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO - 7 B-BLOCK                           | 0.13               | -0.13              |
| 59      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO-1 B-BLOCK                             | 1.94               | -1.05              |
| 60      | 572  | DSIDC NARELA-2<br>GRID | DSIDC NARELA-2 GRID<br>TO NEW S/S HOLAMBI<br>KALAN XING         | 0                  | 0.08               |
| 61      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO 71 FDR-2                              | 2.07               | -0.79              |
| 62      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO-43-1 F-BLOCK NO-2<br>(O/D)            | 0.49               | 0.99               |
| 63      | 522  | DSIDC NARELA-2<br>GRID | DSIDC-2 GRID TO S/S<br>NO -11 C-BLOCK                           | 0.08               | 2.6                |

|         |      |                            |   | FY 23-24           | FY 22-23           |
|---------|------|----------------------------|---|--------------------|--------------------|
| Sr. No. | Zone | Station                    | Feeder Name   | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 64      | 522  | DSIDC NARELA-2<br>GRID     | DSIDC-2 GRID TO B-<br>2290 S/S  | 0.88               | 0.23               |
| 65      | 521  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO CRPF COMPLEX                            | -0.63              | -1.69              |
| 66      | 514  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO HOLAMBI<br>KALAN O/H CKT                | 0.17               | 2.23               |
| 67      | 514  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO SANNOTH (K)<br>FDR NO-2                 | 0.63               | 1.35               |
| 68      | 512  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO A BLK JJ<br>COLONY+D BLK JJ<br>COLONY   | -1.22              | -0.71              |
| 69      | 514  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO GHOGHA (K)<br>FDR NO-2                  | 2.48               | 2.7                |
| 70      | 514  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO GHOGHA (K)<br>FDR NO-1                  | 6.34               | 5.67               |
| 71      | 572  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO SANNOTH (K)<br>FDR NO-1                 | 4.23               | 4.29               |
| 72      | 514  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO GHOGHA<br>DAIRY COLONY O/H CKT<br>FDR-1 | 5.25               | 7.96               |
| 73      | 512  | BAWANA CLEAR<br>WATER GRID | BAWANA CLEAR WATER<br>GRID TO DARYAPUR<br>NANGAL S/S (O/D)            | 9.59               | 9.04               |
| 74      | 521  | POOTH KHURD GRID           | POOTH KHURD GRID TO<br>SEC-1 I,H,F BLOCK                              | 0.15               | -0.22              |
| 75      | 516  | POOTH KHURD GRID           | POOTH KHURD GRID TO<br>BARWALA KIOSK                                  | 0.75               | -0.56              |
| 76      | 521  | POOTH KHURD GRID           | POOTH KHURD GRID TO<br>MB HOSPITAL FDR-1                              | 0.22               | 2.69               |
| 77      | 512  | POOTH KHURD GRID           | POOTH KHURD GRID TO<br>DISTRICT OFFICE<br>BAWANA FDR -2               | -1.36              | 5.08               |
| 78      | 512  | POOTH KHURD GRID           | POOTH KHURD GRID TO<br>DISTRICT OFFICE<br>BAWANA -1                   | 6.61               | 7.6                |

|         |      | Name of the      |  | FY 23-24           | FY 22-23           |
|---------|------|------------------|--|--------------------|--------------------|
| Sr. No. | Zone | Station          | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 79      | 521  | POOTH KHURD GRID | POOTH KHURD GRID TO<br>SEC -1 N,O,P BLOCK                    | -3.57              | -0.05              |
| 80      | 512  | POOTH KHURD GRID | POOTH KHURD GRID TO<br>SOS BAWANA                            | 5.97               | 6.98               |
| 81      | 521  | POOTH KHURD GRID | POOTH KHURD GRID TO<br>POOTH KHURD VILLAGE<br>FDR            | 2.76               | 3.7                |
| 82      | 521  | POOTH KHURD GRID | POOTH KHURD GRID TO<br>SEC -3 D,E BLOCK                      | 2.3                | -0.11              |
| 83      | 521  | POOTH KHURD GRID | POOTH KHURD GRID TO<br>MB HOSPITAL FDR-2                     | 0.37               | 0.06               |
| 84      | 561  | ROHINI - 6 GRID  | 11 KV O/G DTC ROHINI-<br>2 EV CHARGING S/S<br>FDR-1          | -0.01              | -0.02              |
| 85      | 516  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>SEC-26 NALA NO.1<br>(O/D)              | 0.02               | 2.2                |
| 86      | 561  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>AMBEDKAR BHAWAN                        | -0.22              | -2.65              |
| 87      | 561  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>10/11 S/S                              | 0.36               | 0.35               |
| 88      | 581  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>1/16 (I/D) S/S                         | 0.41               | 0.92               |
| 89      | 561  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>SWARN JYANTI PARK<br>STREET LIGHT NO.1 | 0.46               | -0.35              |
| 90      | 581  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>INTERCONNECTOR 1 &<br>2 RG-6 TO RG-30  | -5.38              | -8.51              |
| 91      | 516  | ROHINI - 6 GRID  | ROHINI – 6 GRID TO<br>ESS-1 B BLOCK SECTOR<br>26             | 0.34               | 0.14               |
| 92      | 581  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>17/16 S/S                              | 1.09               | 1.5                |
| 93      | 581  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>320 LIG FLATS SEC-17                   | 0.46               | 0.48               |
| 94      | 581  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>MOHALLA CLINIC SEC-<br>17 S/S          | -3.55              | -0.61              |
| 95      | 561  | ROHINI - 6 GRID  | ROHINI - 6 GRID TO<br>AMUSEMENT PARK                         | 0.05               | 0.01               |
| 96      | 581  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>2/15 S/S                               | 0.25               | 0.3                |
| 97      | 581  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>ARYA APTT.                             | -0.35              | 0.58               |
| 98      | 571  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>2/13 S/S FDR NO-1                      | 1.38               | 0.5                |
| 99      | 571  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>HANS S/S                               | 0.46               | 0.21               |

|         |      |                  | FY 23-24   | FY 22-23           |                    |
|---------|------|------------------|--|--------------------|--------------------|
| Sr. No. | Zone | Station          | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 100     | 561  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>SWARN JYANTI PARK<br>S/S VIA 1 P/M S/S | 0.02               | 0.3                |
| 101     | 561  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>E.S.I. HOSPITAL                        | 0.05               | 0.01               |
| 102     | 571  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>2/13 S/S FDR NO- 2                     | -0.74              | 0.05               |
| 103     | 571  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO<br>1/13 S/S FDR NO-2                      | -0.48              | -0.07              |
| 104     | 571  | ROHINI - 5 GRID  | ROHINI - 5 GRID TO SAI<br>NO-1 S/S                           | 0.15               | 0.36               |
| 105     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>STP-RITHALA S/S NO-1                   | 3.89               | -0.48              |
| 106     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>SPFA NO-2 S/S FDR NO-<br>2             | 0.52               | 0.46               |
| 107     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO 1/6<br>S/S                                | 0.38               | -0.56              |
| 108     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>TPS RITHALA KIOSK S/S                  | -0.69              | -1.13              |
| 109     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>AMBEDKER HOSPITAL<br>S/S               | -0.21              | 0.25               |
| 110     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>MURLIWALA KIOSK S/S                    | 0.23               | 0.14               |
| 111     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>SPFA NO-3 S/S                          | 1.28               | 0.43               |
| 112     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>AMUSEMENT PARK                         | -0.05              | -0.21              |
| 113     | 551  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO 1/4<br>S/S                                | -0.26              | 1.45               |
| 114     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>STP-RITHALA S/S NO-2                   | 0.66               | 0.89               |
| 115     | 561  | ROHINI - 4 GRID  | ROHINI - 4 GRID TO<br>RAJIV GANDHI<br>HOSPITAL S/S           | -0.75              | 1.82               |
| 116     | 519  | ROHINI - 23 GRID | ROHINI - 23 GRID TO<br>PKT-16 SEC-20 S/S NO-<br>1            | 1.19               | 0.95               |
| 117     | 561  | ROHINI - 23 GRID | ROHINI - 23 GRID TO<br>SPS SEC-23 S/S                        | 0.45               | 0.37               |
| 118     | 519  | ROHINI - 23 GRID | ROHINI - 23 GRID TO<br>PKT-11 SEC-21 RHN<br>FDR NO-2         | 0.51               | -0.27              |
| 119     | 519  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>BEGUMPUR S/S SEC-22<br>RHN            | -0.39              | -0.69              |
| 120     | 523  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>SHARDA VATS S/S                       | 0.88               | -0.32              |

|         |      |                  |   | FY 23-24           | FY 22-23           |
|---------|------|------------------|---|--------------------|--------------------|
| Sr. No. | Zone | Station          | Feeder Name   | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 121     | 523  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>MITHILA VIHAR FEEDER<br>NO-1       | 0.88               | 8.29               |
| 122     | 523  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>PRATAP VIHAR                       | 0.12               | -0.78              |
| 123     | 519  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>PKT-17 SEC-22 S/S<br>NO.1          | -0.66              | -0.12              |
| 124     | 523  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>MITHLA VIHAR NO-2 &3<br>S/S        | 1.97               | 3.25               |
| 125     | 523  | ROHINI - 22 GRID | ROHINI - 22 GRID TO<br>AMAN VIHAR NEAR RG-<br>22 GRID S/S | 0.88               | 3.3                |
| 126     | 515  | ROHINI - 2 GRID  | ROHINI - 2 GRID TO<br>POLICE COMPLEX<br>FEEDER NO-2       | 0.25               | 6.97               |
| 127     | 519  | ROHINI - 2 GRID  | ROHINI - 2 GRID TO Y-<br>BLK BUS STAND                    | 0.28               | 0.54               |
| 128     | 515  | ROHINI - 2 GRID  | ROHINI - 2 GRID TO<br>DSIDC WORK CENTRE-2<br>O/D          | 0.4                | -0.24              |
| 129     | 551  | ROHINI - 2 GRID  | ROHINI - 2 GRID TO<br>GOPAL VIHAR S/S                     | 0.87               | -2.26              |
| 130     | 551  | ROHINI - 2 GRID  | ROHINI - 2 GRID TO<br>DDA FLAT S/S NO.1 FDR<br>NO-1       | 1.68               | 1.57               |

- **b) Validation of energy flow data and losses**: Based on field survey and as per following sample size:
  - Checking functional and communication status of meters etc.: Min. 10 or 1% (whichever is higher) of DISCOM's input energy metering points at grids i.e. between Transmission and 66kV/33kV/11kV distribution feeders
  - $_{\odot}~$  Verification for all Divisions with AT&C losses greater than 25% or at-least 1/3  $^{rd}$  of the total Divisions of DISCOM
    - Checking functional and communication status of meters: Total of min. 10 or 1% of metering points (whichever is higher) between 220/132/110/66/33 kV outgoing and 11kV/6.6kV feeders/direct end consumer.
    - Checking functional and communication status of DT meters: In an Urban High Loss Division, checking of min. 5 or 1% of Metering points (whichever is higher) at DTs where communicable meters were installed under other schemes such as R-APDRP and IPDS.
    - Checking functional and communication status of meters between 11kV/6.6kV feeders and DTs: Total of min. of 10 or 1% of metering points (whichever is higher). Also conducting of foot survey of feeders to check for thefts/ hooking etc.

• Checking functional and communication status of consumers meters: Verification of metering and connection status of min. of 10 or 2% consumers of the Division (whichever is higher) of various category of consumers – Agriculture (Metered and Un-metered), Govt. category connection ( and LT Industrial etc.

### 1% of input energy points at (T-D) interface

#### Table 18: 1% Input Energy Points

| Exchange point meters | Consumption<br>(FY 22-23) | Consumption<br>(FY 23-24) | MF     |
|-----------------------|---------------------------|---------------------------|--------|
| Narela T-1            | 279.85                    | 302.25                    | 1000   |
| Narela T-2            | 308.34                    | 329.70                    | 500    |
| Narela T-3            | 180.75                    | 195.80                    | 1000   |
| BWN T-2               | 221.44                    | 174.43                    | 1000   |
| BWN T-3               | 178.48                    | 236.06                    | 333.33 |

#### Data of at-least 1/3<sup>rd</sup>of Divisions:-

#### Min 10 nos. of input energy points

#### **Table 19: Data of Rohini Division**

|      |                                   |                 |  | FY 23-24           | FY 22-23           |
|------|-----------------------------------|-----------------|--|--------------------|--------------------|
| Zone | Zone District Name of the Station |                 | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 581  | Rohini                            | BADLI GRID      | BADLI GRID TO<br>SECTOR-18 (O/D)                             | 1.06               | 1.00               |
| 561  | Rohini                            | ROHINI - 6 GRID | 11 KV O/G DTC<br>ROHINI-2 EV<br>CHARGING S/S FDR-1           | -0.01              | -0.02              |
| 561  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>AMBEDKAR BHAWAN                        | -0.22              | -2.65              |
| 561  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>10/11 S/S                              | 0.36               | 0.35               |
| 581  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>1/16 (I/D) S/S                         | 0.41               | 0.92               |
| 561  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>SWARN JYANTI PARK<br>STREET LIGHT NO.1 | 0.46               | -0.35              |
| 581  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>INTERCONNECTOR 1 &<br>2 RG-6 TO RG-30  | -5.38              | -8.51              |
| 581  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>17/16 S/S                              | 1.09               | 1.50               |
| 581  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>320 LIG FLATS SEC-17                   | 0.46               | 0.48               |
| 581  | Rohini                            | ROHINI - 6 GRID | ROHINI - 6 GRID TO<br>MOHALLA CLINIC SEC-<br>17 S/S          | -3.55              | -0.61              |
|      |            |                     |  | FY 23-24           | FY 22-23           |
|------|------------|---------------------|--|--------------------|--------------------|
| Zone | District   | Name of the Station | Feeder Name  | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 519  | Mangolpuri | ROHINI - 23 GRID    | ROHINI - 23 GRID<br>TO PKT-16 SEC-20<br>S/S NO-1             | 1.19               | 0.95               |
| 519  | Mangolpuri | ROHINI - 23 GRID    | ROHINI - 23 GRID<br>TO PKT-11 SEC-21<br>RHN FDR NO-2         | 0.51               | -0.27              |
| 519  | Mangolpuri | ROHINI - 22 GRID    | ROHINI - 22 GRID<br>TO BEGUMPUR S/S<br>SEC-22 RHN            | -0.39              | -0.69              |
| 519  | Mangolpuri | ROHINI - 22 GRID    | ROHINI - 22 GRID<br>TO PKT-17 SEC-22<br>S/S NO.1             | -0.66              | -0.12              |
| 515  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO POLICE<br>COMPLEX FEEDER<br>NO-2       | 0.25               | 6.97               |
| 519  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO Y-BLK BUS<br>STAND                     | 0.28               | 0.54               |
| 515  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO DSIDC WORK<br>CENTRE-2 O/D             | 0.40               | -0.24              |
| 519  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO RMU NEAR RG-<br>2 GRID                 | -0.47              | 0.53               |
| 519  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO BUDH VIHAR<br>DBJ S/S                  | -4.47              | -0.07              |
| 519  | Mangolpuri | ROHINI - 2 GRID     | ROHINI - 2 GRID<br>TO BUDH VIHAR<br>PH.1 FRUIT<br>MARKET S/S | 0.76               | 1.01               |

# Table 20: Data of Mangolpuri Division

#### Table 21: Data of Pitampura Division

|               |            |                     |   | FY 23-24           | FY 22-23           |
|---------------|------------|---------------------|---|--------------------|--------------------|
| Zone District |            | Name of the Station | Feeder Name                               | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 510           | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>PHOOLARAM NO-2          | 0.03               | 0.13               |
| 504           | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>MAULANA AZAD            | 0.55               | 0.90               |
| 510           | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>LSC MKT.SAINIK<br>VIHAR | 1.54               | 1.62               |

|      |            |                     |   | FY 23-24           | FY 22-23           |
|------|------------|---------------------|---|--------------------|--------------------|
| Zone | District   | Name of the Station | Feeder Name                                       | T&D losses<br>(MU) | T&D losses<br>(MU) |
| 510  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO DT<br>WORKSHOP PP-2<br>GRID        | 0.24               | -0.33              |
| 504  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>BALBIR APTT.                    | 0.03               | 0.18               |
| 510  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>TELEPHONE<br>EXCHANGE NEW       | 0.51               | 0.75               |
| 504  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>VIKASH<br>APPARTMENT            | 0.42               | 0.19               |
| 504  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>SADBHAVNA APTT.                 | -0.32              | 1.48               |
| 504  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>SHARDA<br>APPARTMENT O/D<br>S/S | 0.11               | 0.12               |
| 504  | Pitam Pura | P. P 2 GRID         | P. P 2 GRID TO<br>U.P. SAMAJ FDR NO-<br>1         | 1.14               | 0.68               |

# Table 22: Data of Keshav Puram Division

| Zone | District     | Name of the Station | Feeder Name                                    | FY 23-24<br>T&D losses<br>(MU) | FY 22-23<br>T&D losses<br>(MU) |
|------|--------------|---------------------|--|--------------------------------|--------------------------------|
| 422  | Keshav Puram | ROHTAK ROAD GRID    | AMAR PARK S/STN.                               | 0.15                           | 0.00                           |
| 520  | Keshav Puram | ROHTAK ROAD GRID    | ROHTAK ROAD GRID<br>TO RAMPURA-3               | 1.04                           | 1.25                           |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>RAMPURA-1 FDR-1             | -2.12                          | -0.06                          |
| 520  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>VISHRAM NGR                 | 0.35                           | 0.43                           |
| 520  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>OLD MOTHER DAIRY<br>RAMPURA | 0.38                           | 0.47                           |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>C-34 INDUSTRIAL<br>AREA     | -0.16                          | 1.08                           |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>COMMUNITY CENTRE            | -1.01                          | 0.54                           |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>C-1                         | -1.15                          | -0.17                          |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO B<br>- 38                      | 5.24                           | 6.25                           |
| 501  | Keshav Puram | RAMPURA GRID        | RAMPURA GRID TO<br>HIMACHAL COLD<br>STORAGE    | -0.24                          | 1.13                           |

- 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 85.4% and the energy share is 49.1% of total consumers and energy, commercial/industrial LT is 14.0% of total consumers and energy share is 37.7% of total billed energy, commercial/industrial HT is 0.04% of total consumers and energy share is 6.5% of total billed energy.

| Consumer category            | Metered | Un-<br>metered | Total<br>Consumer | % share<br>of<br>Consumer | Metered<br>Energy<br>(MU) | Unmet<br>ered<br>Energy | Total Billed<br>Energy<br>(MU) | % Share<br>energy |
|------------------------------|---------|----------------|-------------------|---------------------------|---------------------------|-------------------------|--------------------------------|-------------------|
| Residential                  | 1729505 | 0.0            | 1729505           | 85.4%                     | 4925.85                   | 0.00                    | 4925.85                        | 49.1%             |
| Agricultural                 | 4466    | 0.0            | 4466              | 0.2%                      | 15.34                     | 0.00                    | 15.34                          | 0.2%              |
| Commercial/Industr<br>ial-LT | 282712  | 0.0            | 282712            | 14.0%                     | 3779.90                   | 0.00                    | 3779.90                        | 37.7%             |
| Commercial/Industr<br>ial-HT | 802     | 0.0            | 802               | 0.04%                     | 656.16                    | 0.00                    | 656.16                         | 6.5%              |
| Others                       | 8619    | 0.0            | 8619              | 0.4%                      | 650.90                    | 0.00                    | 650.90                         | 6.5%              |
| Total                        | 2026104 | 0.0            | 2026104.0         | 100%                      | 10028.15                  | 0.0                     | 10028.15                       | 100%              |

#### Table 23: Verified Category wise Consumers and Energy

- Field visit of Substations, DTs and commercial building was done during the audit time.
- It was also observed that 100% of the consumers are metered.
- At the time of field survey it was found that HT feeder meters are communicable.
- It was also observed that average power factor was found in the range of 0.96 to 0.99.
- It was also observed that hourly load parameters are monitored and energy consumption is monitored at every 24hrs.

#### 4.3. Validation of energy flow data and losses

Voltage wise power purchase details are not available, as the invoice of power purchase contains only units purchased and details of power plant voltage not available.

Voltage wise energy flow data isnot available, Inputs at different voltage levels are not available.

Majority of feeders are common to LT & HT. So input energy supplied is inseparable.

Cumulated EHT sales MUs for 33kV and above are maintained and therefore bifurcation of same into 66 kV and 33 kV is not available.

# 5. Loss and subsidy computation

# 5.1. Energy accounts analysis for previous year

Performance comparison is done for last 3 years FY 20-21, FY 21-22& FY22-23 to find, where the DISCOM has improved and where it needs improvement, etc.

#### a) Summary of AT&C losses for previous years

The AT&C losses for the FY 2020-21, FY 2021-22, FY 2022-23 are as shown below:

 Table 24: AT&C losses of previous three years

| Technical Details  | UoM         | FY 2020-21 | FY 2021-22 | FY 2022-23 |
|--|-------------|------------|------------|------------|
| Input Energy Purchase<br>(From Generation Source)*   | Million kWh | 10085.62   | 11737.11   | 12741.47   |
| Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded) | Million kWh | 8950.12    | 9424.75    | 10622.62   |
| Total Energy billed (is the Net energy billed, adjusted for energy traded))                      | Million kWh | 8310.43    | 8752.21    | 9946.33    |
| Transmission and Distribution (T&D) loss   | Million kWh | 639.68     | 672.55     | 676.29     |
| Details  | %           | 7.15%      | 7.14%      | 6.37%      |
| Collection Efficiency  | %           | 100.72%    | 100.36%    | 100%       |
| Aggregate Technical & Commercial Loss  | %           | 6.48%      | 6.80%      | 6.36%      |

# Figure 9: Comparison of Losses – Last 3 FYs – 20-21/21-22/22-23



Table shows trend of T&D loss, Collection efficiency and AT&C loss for last 3 years. T&D and AT&C losses have reduced as compare to previous year.

# b) DivisionWise Comparison

Division wise input Energy, Billed Energy, T&D losses and AT&C losses is given in following table:

# Table 25: Division wise Input and Billed Energy FY 2021-22&2022-23

|                  | FY-202                | 1-22                      | FY-2022-23            |                        |  |
|------------------|-----------------------|---------------------------|-----------------------|------------------------|--|
| Name of Division | Input Energy<br>(MUs) | Billed<br>Energy<br>(MUs) | Input Energy<br>(MUs) | Billed Energy<br>(MUs) |  |
| Badli            | 621.60                | 553.61                    | 697.77                | 640.87                 |  |
| Bawana           | 1302.72               | 1171.22                   | 1457.23               | 1323.15                |  |
| Civil Lines      | 773.43                | 750.61                    | 903.66                | 889.91                 |  |
| Keshav Puram     | 803.85                | 754.21                    | 886.18                | 838.01                 |  |
| Mangolpuri       | 618.99                | 576.76                    | 698.77                | 645.64                 |  |
| Model Town       | 667.51                | 626.38                    | 755.87                | 717.99                 |  |
| Moti Nagar       | 752.93                | 711.74                    | 847.33                | 803.81                 |  |
| Narela           | 1088.77               | 994.04                    | 1231.63               | 1128.62                |  |
| Pitam Pura       | 612.37                | 573.77                    | 677.68                | 645.99                 |  |
| Rohini           | 1034.25               | 984.75                    | 1161.64               | 1112.30                |  |
| Kirari           | 394.40                | 342.65                    | 437.49                | 384.56                 |  |
| Shalimar Bagh    | 753.83                | 712.46                    | 867.37                | 815.48                 |  |
| Total            | 9424.75               | 8752.21                   | 10622.62              | 9946.33                |  |

#### Table 26: Division wise T&D and AT&C losses in FY 2021-22 & FY 2022-23

|                  | FY-202          | 1-22               | FY-2022-23      |                    |  |
|------------------|-----------------|--------------------|-----------------|--------------------|--|
| Name of Division | T&D LOSS<br>(%) | AT & C<br>LOSS (%) | T&D LOSS<br>(%) | AT & C<br>LOSS (%) |  |
| Badli            | 10.90%          | 9.77%              | 8.15%           | 7.80%              |  |
| Bawana           | 10.10%          | 9.88%              | 9.20%           | 8.90%              |  |
| Civil Lines      | 3.00%           | 3.24%              | 1.52%           | 2.47%              |  |
| Keshav Puram     | 6.20%           | 7.08%              | 5.44%           | 6.35%              |  |
| Mangolpuri       | 6.80%           | 6.14%              | 7.60%           | 7.21%              |  |
| Model Town       | 6.20%           | 6.09%              | 5.01%           | 5.03%              |  |
| Moti Nagar       | 5.50%           | 5.34%              | 5.14%           | 4.91%              |  |
| Narela           | 8.70%           | 8.15%              | 8.36%           | 8.34%              |  |
| Pitam Pura       | 6.30%           | 5.83%              | 4.68%           | 4.47%              |  |
| Rohini           | 4.80%           | 4.02%              | 4.25%           | 4.08%              |  |
| Kirari           | 13.10%          | 11.62%             | 12.10%          | 11.83%             |  |
| Shalimar Bagh    | 5.50%           | 4.76%              | 5.98%           | 5.83%              |  |
| At DISCOM level  | 7.14%           | 6.80%              | 6.37%           | 6.36%              |  |

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

# 5.2.1. Circle wise Consumer Count, Connected Load, Input Energy, Billed Energy, T&D losses & AT&C loss%

| Name of circle   | Total<br>Number of<br>connections<br>(Nos) | Total<br>Connected<br>Load (MW) | Input<br>Energy<br>(MU) | Total<br>Billed<br>energy<br>(MU) | T&D loss<br>(MU) | T&D loss<br>(%) | AT & C<br>loss (%) |
|------------------|--|---------------------------------|-------------------------|-----------------------------------|------------------|-----------------|--------------------|
| URBAN CIRCLE     | 654525                                     | 1843.55                         | 2769.62                 | 2612.05                           | 157.57           | 5.69%           | 6.22%              |
| SUB-URBAN CIRCLE | 243901                                     | 1385.97                         | 2740.69                 | 2529.05                           | 211.64           | 7.72%           | 7.74%              |
| TOWN CIRCLE      | 466706                                     | 1676.04                         | 2513.64                 | 2413.04                           | 100.59           | 4.08%           | 4.02%              |
| METRO CIRCLE     | 510569                                     | 1280.32                         | 1804.88                 | 1685.61                           | 119.27           | 7.04%           | 6.32%              |
| CITY CIRCLE      | 150403                                     | 611.23                          | 831.61                  | 788.40                            | 43.22            | 5.20%           | 5.39%              |
| At DISCOM level  | 2026104                                    | 6797.11                         | 10660.43                | 10028.15                          | 632.28           | 5.93%           | 5.92%              |

#### Table 27: Circle wise Comparison for FY 2023-24

# 5.2.2. Division wise Input energy and billed energy details

The Division wise input energy & billed energy for FY 2023-24 is shown in below table.

| S.No | Name of Division | Input energy<br>(MU) | % of Input<br>energy<br>consumption | Total Billed<br>energy (MUs) | % of energy consumption |
|------|------------------|----------------------|-------------------------------------|------------------------------|-------------------------|
| 1    | Badli            | 720.57               | 6.76                                | 663.52                       | 6.62                    |
| 2    | Rohini           | 1153.93              | 10.82                               | 1103.40                      | 11.00                   |
| 3    | Shalimar bagh    | 895.11               | 8.40                                | 845.13                       | 8.43                    |
| 4    | Bawana           | 1466.37              | 13.76                               | 1352.51                      | 13.49                   |
| 5    | Narela           | 1274.31              | 11.95                               | 1176.54                      | 11.73                   |
| 6    | Civil Line       | 890.25               | 8.35                                | 871.21                       | 8.69                    |
| 7    | Keshavpuram      | 873.94               | 8.20                                | 832.66                       | 8.30                    |
| 8    | Model town       | 749.44               | 7.03                                | 709.17                       | 7.07                    |
| 9    | Kirari           | 446.88               | 4.19                                | 400.30                       | 3.99                    |
| 10   | Mangolpuri       | 695.58               | 6.52                                | 656.23                       | 6.54                    |
| 11   | Pitam pura       | 662.42               | 6.21                                | 629.08                       | 6.27                    |
| 12   | Moti nagar       | 831.61               | 7.80                                | 788.40                       | 7.86                    |
|      |                  | 10660.43             | 100.0                               | 10028.15                     | 100.0%                  |

#### Table 28: Division wise input energy & billed energy for FY 2023-24



Figure 10: Division wise Input Energy Share

# Figure 11: Division wise Input Energy Share



# 5.2.3. Quarterly and annual AT&C losses

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

|   | _                             |     | Quarterly |         |         |         | Annual         |
|---|-------------------------------|-----|-----------|---------|---------|---------|----------------|
| Energy Input Details  | Formula                       | UoM | Q1        | Q2      | Q3      | Q4      | FY 2023-<br>24 |
| Input Energy Purchase   | А                             | MU  | 3355.38   | 3991.98 | 2664.71 | 2687.92 | 12686.10       |
| (From Generation Source)  |                               |     |           |         |         |         |                |
| Net input energy (at<br>DISCOM Periphery after<br>adjusting the transmission<br>losses and energy traded) | В                             | MU  | 2793.30   | 3425.41 | 2227.96 | 2213.77 | 10660.43       |
| Total Energy billed (is the<br>Net energy billed, adjusted<br>for energy traded)                          | С                             | MU  | 2385.84   | 3144.93 | 2379.07 | 2117.82 | 10028.15       |
| Transmission and  | D                             | MU  | 407.46    | 280.48  | -151.11 | 95.95   | 632.28         |
| Distribution (T&D) loss<br>Details  | $E=D/B\times100$              | %   | 14.59%    | 8.19%   | -6.78%  | 4.33%   | 5.93%          |
| Collection Efficiency   | F                             | %   | 93.74%    | 99.27%  | 104.56% | 102.84% | 100.01%        |
| Aggregate Technical &<br>Commercial Loss  | G = 1-{(1-E) x<br>Min(F,100%) | %   | 19.93%    | 8.86%   | -11.66% | 1.62%   | 5.92%          |

#### Table 29: Energy Input and AT&C Losses for FY 2023-24

# 5.2.4. Voltage wise AT&C losses

Voltage wise power purchase details are not available, as the invoice of power purchase contains only units purchased and details of power plant voltage not available.

Majority of feeders are common to LT & HT. So input energy supplied is inseparable.

Cumulated EHT sales MUs for 33kV and above are maintained and therefore bifurcations of same are not available.

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

| 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   | -      |
| 1.b.   | Energy consumed by HT consumers at 132KV (Sales + Third Party)      | MUs   | -      |
| 1.c.   | Energy Delivered to lower voltage                                   | MUs   | -      |
| 1.d.   | Losses (132 kV System)  | MUs   | -      |
| 1.e.   | % Losses (132 kV System)  | %     | -      |
|        |   |       |        |
| 2      | Losses in 33 KV System and Connected Equipment                      |       | -      |
| 2.a.   | Total Energy delivered into 33 KV Distribution System from EHT SSs  | MUs   | -      |
| 2.b.   | Energy consumed by HT consumers at 33KV (Sales + Third Party)       | MUs   | -      |
| 2.c.   | Energy Delivered into 11 KV and LT System from 33/11 KV SSs         | MUs   | -      |
| 2.d.   | Losses (33 kV System)   | MUs   | -      |
| 2.e.   | % Losses (33 kV System)   | %     | -      |
|        |   |       |        |
| 3      | Losses in 11 KV System and Connected Equipment                      |       | -      |

#### Table 30: Voltage-wise AT&C Losses for FY 2023-24

| S. No. | Particulars   | Units | Values |
|--------|---|-------|--------|
| 3.a.   | Total Energy delivered into 11 KV and LT Distribution System  | MUs   | -      |
| 3.b.   | Energy consumed by HT consumers at 11KV (Sales + Third Party) | MUs   | -      |
| 3.c.   | Total Output from 11kV to LT                                  | MUs   | -      |
| 3.d.   | Losses (11kV System)  | MUs   | -      |
| 3.e.   | % Losses (11kV System)  | %     | -      |
|        |   |       |        |
| 4      | Losses in LT system and connected equipment                   |       | -      |
| 4.a.   | Energy delivered to LT system from 11/400 V DTRs              | MUs   | -      |
| 4.b.   | Energy sold at LT level                                       | MUs   | -      |
| 4.c.   | Losses (LT System)  | MUs   | -      |
| 4.d.   | % Losses (LT System)  | %     | -      |
|        |   |       |        |
| 5      | Total losses in the Distribution System                       |       | -      |
| 5.a.   | Total Input to the distribution system                        | MUs   | -      |
| 5.b.   | Total Output from the Distribution System                     | MUs   | -      |
| 5.c.   | Distribution System Losses                                    | %     | -      |
| 5.d.   | % Distribution System Losses                                  | %     | -      |

#### 5.2.5. 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 for different circles is given below.

"Urban Circle" circle having maximum numbers of consumers and "City Circle" having minimum numbers of consumers. "Urban Circle" has maximum input energy as well as billed units and "City Circle" have minimum input energy as well as billed units as shown in table:

| Circle           | Total Number of<br>connections |         | Total Connected<br>Load |         | Input en | ergy       | Billed energy |         |  |
|------------------|--------------------------------|---------|-------------------------|---------|----------|------------|---------------|---------|--|
| Circle           | Nos.                           | % Share | MW                      | % Share | MU       | %<br>Share | MU            | % Share |  |
| URBAN CIRCLE     | 654525                         | 32.30%  | 1843.554                | 27.12%  | 2769.616 | 25.98%     | 2612.05       | 26.05%  |  |
| SUB-URBAN CIRCLE | 243901                         | 12.04%  | 1385.97                 | 20.39%  | 2740.69  | 25.71%     | 2529.05       | 25.22%  |  |
| TOWN CIRCLE      | 466706                         | 23.03%  | 1676.039                | 24.66%  | 2513.636 | 23.58%     | 2413.043      | 24.06%  |  |
| METRO CIRCLE     | 510569                         | 25.20%  | 1280.319                | 18.84%  | 1804.881 | 16.93%     | 1685.611      | 16.81%  |  |
| CITY CIRCLE      | 150403                         | 7.42%   | 611.23                  | 8.99%   | 831.61   | 7.80%      | 788.4         | 7.86%   |  |
| Total            | 2026104                        | 100.00% | 6797.11                 | 100.00% | 10660.43 | 100%       | 10028.15      | 100.00% |  |

#### Table 31: Circle wise consumers, Connected load, Input and Billed Energy in FY 2023-24

#### 2. Circle-wise AT&C losses

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

|                  |                      |          | T&D    | loss  | Collected                   |                  |
|------------------|----------------------|----------|--------|-------|-----------------------------|------------------|
| Name of Circle   | Input energy<br>(MU) | (MU)     | (MU)   | (%)   | Amount<br>(in Rs.<br>Crore) | AI&C<br>loss (%) |
| URBAN CIRCLE     | 2769.62              | 2612.05  | 157.57 | 5.69% | 2552.96                     | 6.22%            |
| SUB-URBAN CIRCLE | 2740.69              | 2529.05  | 211.64 | 7.72% | 3322.84                     | 7.74%            |
| TOWN CIRCLE      | 2513.64              | 2413.04  | 100.59 | 4.08% | 2559.22                     | 4.02%            |
| METRO CIRCLE     | 1804.88              | 1685.61  | 119.27 | 7.04% | 1543.15                     | 6.32%            |
| CITY CIRCLE      | 831.61               | 788.40   | 43.22  | 5.20% | 917.63                      | 5.39%            |
| Total            | 10660.43             | 10028.15 | 632.28 | 5.93% | 10895.80                    | 5.92%            |

# Table 32: Circle wise T&D losses, Collection Efficiency and AT&C losses for FY 2023-24

**Note:** AT&C Loss's calculation as per BEE proforma the calculation is as per actual Collection efficiency.

# **Division wise AT&C losses analysis**

#### 3. Division-wiseAT&C losses

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

#### Table 33: Division wise T&D losses, Collection Efficiency and AT&C losses for FY 2023-24

| Sr<br>No | Name of<br>Circle | Division   | Consumer<br>category         | Total<br>Number of<br>connections<br>(Nos) | Total<br>Connected<br>Load<br>(MW) | Input<br>energy<br>(MU) | Total<br>energy | % of<br>energy<br>consumpti<br>on | T&D<br>loss<br>(MU) | T&D<br>loss<br>(%) | Billed<br>Amount in<br>Rs. Crore | Collected<br>Amount in<br>Rs. Crore | Collectio<br>n<br>Efficienc<br>y | AT& C<br>loss<br>(%) |         |
|----------|-------------------|------------|------------------------------|--|------------------------------------|-------------------------|-----------------|-----------------------------------|---------------------|--------------------|----------------------------------|-------------------------------------|----------------------------------|----------------------|---------|
|          |                   |            | Residential                  | 113987                                     | 192                                |                         | 263.29          | 40%                               |                     |                    | 167.41                           | 167.44                              | 100.02%                          |                      |         |
|          |                   |            | Agricultural                 | 460  | 4                                  |                         | 2.07            | 0%                                |                     |                    | 1.42                             | 1.46                                | 102.62%                          |                      |         |
| 1        | Urban             | Badli      | Commercial/Indus<br>trial-LT | 22000                                      | 217                                | 720.57                  | 348.91          | 53%                               | 57.05               | 7.92%              | 550.65                           | 549.18                              | 99.73%                           |                      |         |
|          |                   |            | Commercial/Indus<br>trial-HT | 51   | 14                                 |                         | 23.59           | 4%                                |                     |                    | 35.77                            | 37.78                               | 105.62%                          |                      |         |
|          |                   |            | Others                       | 622  | 8                                  |                         | 25.66           | 4%                                |                     |                    | 25.19                            | 18.94                               | 75.17%                           |                      |         |
| S        | Sub-total         |            |                              | 137120                                     | 434.97                             | 720.57                  | 663.52          | 100%                              | 57.05               | 7.92%              | 780.45                           | 774.80                              | 99.28%                           | 8.59%                |         |
|          |                   |            | Residential                  | 73415                                      | 123                                | 1466.37                 | 166.95          | 12%                               |                     |                    | 103.95                           | 104.14                              | 100.18%                          |                      |         |
|          | 2 Sub-Urban       | Bawana     | Agricultural                 | 1714                                       | 10                                 |                         | 3.43            | 0%                                |                     |                    | 3.30                             | 3.41                                | 103.16%                          |                      |         |
| 2        |                   |            | Commercial/Indus<br>trial-LT | 22456                                      | 587                                |                         | 1131.61         | 84%                               | 113.86 7.76         | 7.76%              | 1696.97                          | 1697.45                             | 100.03%                          |                      |         |
|          |                   |            | Commercial/Indus<br>trial-HT | 35   | 9                                  |                         | 18.91           | 1%                                |                     |                    | 27.04                            | 28.02                               | 103.62%                          |                      |         |
|          |                   |            | Others                       | 405  | 9                                  |                         | 31.61           | 2%                                |                     |                    | 35.16                            | 35.60                               | 101.25%                          |                      |         |
| S        | Sub-total         |            |                              | 98025                                      | 737.75                             | 1466.37                 | 1352.51         | 100%                              | 113.86              | 7.76%              | 1866.43                          | 1868.62                             | 100.12%                          | 7.66%                |         |
|          |                   |            | Residential                  | 113495                                     | 312                                |                         | 410.09          | 47%                               |                     |                    | 313.12                           | 314.02                              | 100.29%                          |                      |         |
|          |                   |            | Agricultural                 | 0  | 0                                  |                         | 0.00            | 0%                                | -                   |                    | 0.00                             | 0.00                                | 0.00%                            |                      |         |
| 3        | 3 Town            | Civil Line | Commercial/Indus<br>trial-LT | 24475                                      | 110                                | 890.25                  | 133.55          | 15%                               | 19.04               | 2.14%              | 221.71                           | 222.55                              | 100.38%                          | _                    |         |
|          |                   | C<br>t     | Commercial/Indus<br>trial-HT | 71   | 56                                 |                         | 90.84           | 10%                               |                     |                    |                                  |                                     | 143.61                           | 143.61               | 100.00% |
|          |                   |            | Others                       | 930  | 76                                 |                         | 236.72          | 27%                               |                     |                    | 243.34                           | 239.81                              | 98.55%                           |                      |         |
| S        | Sub-total         |            |                              | 138971                                     | 554.20                             | 890.25                  | 871.21          | 100%                              | 19.04               | 2.14%              | 921.78                           | 920.00                              | 99.81%                           | 2.33%                |         |

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|   |           |                 | Residential                  | 124676 | 297    |        | 379.38 | 46%  |         |            | 266.87          | 268.97          | 100.79% |       |
|---|-----------|-----------------|------------------------------|--------|--------|--------|--------|------|---------|------------|-----------------|-----------------|---------|-------|
|   |           |                 | Agricultural                 | 0      | 0      |        | 0.00   | 0%   |         |            | 0.00            | 0.00            | 0.00%   |       |
| 4 | Town      | Keshavpura<br>m | Commercial/Indus<br>trial-LT | 27677  | 237    | 873.94 | 359.33 | 43%  | 41.29   | 4.72%      | 559.85          | 561.87          | 100.36% |       |
|   |           |                 | Commercial/Indus<br>trial-HT | 101    | 34     |        | 72.32  | 9%   |         |            | 99.16           | 98.76           | 99.60%  |       |
|   |           |                 | Others                       | 609    | 23     |        | 21.62  | 3%   |         |            | 21.93           | 22.30           | 101.65% |       |
| S | Sub-total |                 |                              | 153063 | 591.26 | 873.94 | 832.66 | 100% | 41.29   | 4.72%      | 947.81          | 951.90          | 100.43% | 4.31% |
|   |           |                 | Residential                  | 145627 | 218    |        | 312.57 | 78%  |         |            | 177.12          | 177.59          | 100.26% |       |
|   |           |                 | Agricultural                 | 61     | 0      |        | 0.18   | 0%   |         |            | 0.12            | 0.12            | 99.46%  | _     |
| 5 | Metro     | Kirari          | Commercial/Indus<br>trial-LT | 16772  | 53     | 446.88 | 66.74  | 17%  | 46.58   | 10.42%     | 109.16          | 109.21          | 100.05% |       |
|   |           |                 | Commercial/Indus<br>trial-HT | 8      | 3      |        | 4.82   | 1%   |         |            | 8.94            | 8.90            | 99.52%  |       |
|   |           |                 | Others                       | 431    | 19     |        | 15.99  | 4%   |         |            | 23.68           | 30.98           | 130.81% |       |
| S | Sub-total |                 |                              | 162899 | 293.34 | 446.88 | 400.30 | 100% | 46.58   | 10.42<br>% | 319.03          | 326.81          | 102.44% | 8.24% |
|   |           | F               | Residential                  | 199587 | 337    | 695.58 | 475.57 | 72%  |         |            | 281.737180<br>4 | 281.778660<br>3 | 100.01% |       |
|   | Metro     |                 | Agricultural                 | 0      | 0      |        | 0.00   | 0%   |         |            | 0               | 0               | 0.00%   |       |
| 6 |           | Mangolpuri      | Commercial/Indus<br>trial-LT | 23389  | 106    |        | 140.71 | 21%  | 39.35 5 | 5.66%      | 221.965222<br>2 | 222.069275<br>1 | 100.05% |       |
|   |           |                 | Commercial/Indus<br>trial-HT | 23     | 9      |        | 22.39  | 3%   |         |            | 30.0959129<br>4 | 29.9294271      | 99.45%  |       |
|   |           |                 | Others                       | 652    | 7      |        | 17.56  | 3%   |         |            | 21.8290427<br>2 | 22.2896565<br>3 | 102.11% |       |
| S | Sub-total |                 |                              | 223651 | 459.27 | 695.58 | 656.23 | 100% | 39.35   | 5.66%      | 555.63          | 556.07          | 100.08% | 5.58% |
|   |           |                 | Residential                  | 151563 | 356    |        | 470.33 | 66%  | _       |            | 336.77          | 336.80          | 100.01% |       |
|   |           |                 | Agricultural                 | 3      | 0      |        | 0.01   | 0%   | _       |            | 0.00            | 0.00            | 99.07%  | _     |
| 7 | Town      | n Model town    | Commercial/Indus<br>trial-LT | 22240  | 111    | 749.44 | 132.30 | 19%  | 40.27   | 5.37%      | 218.39          | 218.20          | 99.91%  |       |
|   | ľ         |                 | Commercial/Indus<br>trial-HT | 46     | 16     |        | 25.71  | 4%   |         |            | 41.91           | 42.06           | 100.35% |       |
|   |           |                 | Others                       | 820    | 48     |        | 80.82  | 11%  |         |            | 90.62           | 90.27           | 99.62%  |       |
| S | Sub-total |                 |                              | 174672 | 530.57 | 749.44 | 709.17 | 100% | 40.27   | 5.37%      | 687.69          | 687.33          | 99.95%  | 5.42% |
| Q | City      | Moti nagar      | Residential                  | 121043 | 324    | 831 61 | 408.49 | 52%  | 43.22   | 5 20%      | 301.21          | 301.39          | 100.06% |       |
| 0 | 8 City M  | noti nagai      | Agricultural                 | 0      | 0      | 031.01 | 0.00   | 0%   | 75.22   | 5.2070     | 0.00            | 0.00            | 0.00%   |       |

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|    |           |                                | Commercial/Indus<br>trial-LT | 28466  | 226    |         | 282.28  | 36%  |       |       | 472.83      | 471.31  | 99.68%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
|----|-----------|--------------------------------|------------------------------|--------|--------|---------|---------|------|-------|-------|-------------|---------|---------|--------|--------|--|--|--|--|-------|--|--|--------|--------|---------|--|
|    |           |                                | Commercial/Indus<br>trial-HT | 117    | 51     |         | 81.87   | 10%  |       |       | 125.41      | 125.43  | 100.02% | -      |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Others                       | 777    | 10     |         | 15.76   | 2%   |       |       | 20.01       | 19.51   | 97.48%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
| S  | ub-total  |                                |                              | 150403 | 611.23 | 831.61  | 788.40  | 100% | 43.22 | 5.20% | 919.46      | 917.63  | 99.80%  | 5.39%  |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Residential                  | 123246 | 206    |         | 290.04  | 25%  |       |       | 181.88      | 182.19  | 100.17% |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Agricultural                 | 2161   | 19     |         | 9.20    | 1%   |       |       | 6.60        | 6.74    | 102.11% | -      |        |  |  |  |  |       |  |  |        |        |         |  |
| 9  | Sub-Urban | Narela                         | Commercial/Indus<br>trial-LT | 19388  | 370    | 1274.31 | 751.37  | 64%  | 97.77 | 7.67% | 1095.33     | 1094.53 | 99.93%  | -      |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Commercial/Indus<br>trial-HT | 141    | 37     |         | 97.54   | 8%   |       |       | 134.76      | 132.79  | 98.54%  | -      |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Others                       | 940    | 16     |         | 28.40   | 2%   |       |       | 37.90       | 37.97   | 100.19% |        |        |  |  |  |  |       |  |  |        |        |         |  |
| s  | ub-total  |                                |                              | 145876 | 648.22 | 1274.31 | 1176.54 | 100% | 97.77 | 7.67% | 1456.47     | 1454.22 | 99.85%  | 7.82%  |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Residential                  | 105988 | 372    |         | 419.59  | 67%  |       |       | 333.60      | 333.43  | 99.95%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Agricultural                 | 0      | 0      |         | 0.00    | 0%   |       |       | 0.00        | 0.00    | 0.00%   |        |        |  |  |  |  |       |  |  |        |        |         |  |
| 10 | Metro     | Pitam pura                     | Commercial/Indus<br>trial-LT | 17368  | 112    | 662.42  | 137.13  | 22%  | 33.34 | 5.03% | 225.08      | 224.49  | 99.74%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Commercial/Indus<br>trial-HT | 76     | 37     |         | 59.46   | 9%   |       |       | 88.12       | 88.01   | 99.87%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Others                       | 587    | 7      |         | 12.90   | 2%   |       |       | 14.15       | 14.34   | 101.38% |        |        |  |  |  |  |       |  |  |        |        |         |  |
| S  | ub-total  |                                |                              | 124019 | 527.71 | 662.42  | 629.08  | 100% | 33.34 | 5.03% | 660.95      | 660.27  | 99.90%  | 5%     |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Residential                  | 210495 | 571    |         | 713.74  | 65%  |       |       | 510.76      | 510.94  | 100.03% |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Agricultural                 | 0      | 0      |         | 0.00    | 0%   |       |       | 0.00        | 0.00    | 0.00%   |        |        |  |  |  |  |       |  |  |        |        |         |  |
| 11 | Urban     | Rohini                         | Commercial/Indus<br>trial-LT | 30872  | 133    | 1153.93 | 154.29  | 14%  | 50.53 | 4.38% | 250.73      | 250.79  | 100.03% |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Commercial/Indus<br>trial-HT | 68     | 48     |         | 92.45   | 8%   |       |       |             |         |         |        |        |  |  |  |  | 50.55 |  |  | 134.62 | 134.63 | 100.01% |  |
|    |           |                                | Others                       | 1031   | 58     |         | 142.92  | 13%  |       |       | 152.12      | 153.60  | 100.97% |        |        |  |  |  |  |       |  |  |        |        |         |  |
| S  | ub-total  |                                |                              | 242466 | 810.03 | 1153.93 | 1103.40 | 100% | 50.53 | 4.38% | 1048.23     | 1049.97 | 100.17% | 4%     |        |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Residential                  | 246383 | 443    |         | 615.81  | 73%  |       |       | 385.55      | 384.30  | 99.68%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
|    | Urban     | Shalimar                       | Agricultural                 | 67     | 0      |         | 0.46    | 0%   | -     |       | 0.22        | 0.22    | 98.14%  |        |        |  |  |  |  |       |  |  |        |        |         |  |
| 12 | C. Juli   | Shalimar<br>bagh<br>Co<br>tria | Commercial/Indus<br>trial-LT | 27609  | 108    | 895.11  | 141.69  | 17%  | 49.98 | 49.98 | 49.98 5.58% | 5.58%   | 227.56  | 227.11 | 99.80% |  |  |  |  |       |  |  |        |        |         |  |
|    |           |                                | Commercial/Indus<br>trial-HT | 65     | 30     |         | 66.25   | 8%   |       |       | 90.53       | 90.08   | 99.51%  |        |        |  |  |  |  |       |  |  |        |        |         |  |

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|   |           |           | Others                       | 815        | 18      |          | 20.92    | 2%    |        |       | 26.50    | 26.49    | 99.98%  |       |
|---|-----------|-----------|------------------------------|------------|---------|----------|----------|-------|--------|-------|----------|----------|---------|-------|
| 5 | Sub-total |           |                              | 274939     | 598.56  | 895.11   | 845.13   | 100%  | 49.98  | 5.58% | 730.35   | 728.19   | 99.70%  | 6%    |
|   |           |           | Residential                  | 1729505    | 3752.28 |          | 4925.85  | 49.1% |        |       | 3359.98  | 3362.98  | 100.09% |       |
|   |           |           | Agricultural                 | 4466       | 33.82   |          | 15.34    | 0.2%  |        |       | 11.67    | 11.95    | 102.37% |       |
|   | Total     |           | Commercial/Indus<br>trial-LT | 282712     | 2368.41 | 10660.43 | 3779.90  | 37.7% | 632.28 | 6%    | 5850.22  | 5848.75  | 99.97%  |       |
|   |           |           | Commercial/Indus<br>trial-HT | 802        | 342.50  |          | 656.16   | 6.5%  |        |       | 959.96   | 960.01   | 100.01% |       |
|   |           |           | Others                       | 8619       | 300.10  |          | 650.90   | 6.5%  |        |       | 712.44   | 712.11   | 99.95%  |       |
|   | At compa  | any level |                              | 2026104.00 | 6797.11 | 10660.43 | 10028.15 | 100%  | 632.28 | 5.93% | 10894.28 | 10895.80 | 100.01% | 5.92% |

#### 4. Division wise AT&C loss

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

Division wise connections, connected load, input energy & Billed energy with percentage share in different division is given below. "Shalimar Bagh" Division having maximum numbers of consumers and "Bawana" Division having minimum numbers of consumers. "Bawana" has maximum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units and "Kirari" hasminimum input energy as well as billed units as shown in table:

| Name of Division | Total Nun<br>connect | nber of<br>tions | Total Co<br>Loa | nnected<br>ad | Input energy |       | Total Billed energy |       |
|------------------|----------------------|------------------|-----------------|---------------|--------------|-------|---------------------|-------|
|                  | Number               | %                | Load<br>(MW)    | %             | MU           | %     | MU                  | %     |
| Badli            | 137120               | 6.77             | 434.97          | 6.40          | 720.57       | 6.76  | 663.52              | 6.62  |
| Rohini           | 242466               | 11.97            | 810.03          | 11.92         | 1153.93      | 10.82 | 1103.40             | 11.00 |
| Shalimar bagh    | 274939               | 13.57            | 598.56          | 8.81          | 895.11       | 8.40  | 845.13              | 8.43  |
| Bawana           | 98025                | 4.84             | 737.75          | 10.85         | 1466.37      | 13.76 | 1352.51             | 13.49 |
| Narela           | 145876               | 7.20             | 648.22          | 9.54          | 1274.31      | 11.95 | 1176.54             | 11.73 |
| Civil Line       | 138971               | 6.86             | 554.20          | 8.15          | 890.25       | 8.35  | 871.21              | 8.69  |
| Keshavpuram      | 153063               | 7.55             | 591.26          | 8.70          | 873.94       | 8.20  | 832.66              | 8.30  |
| Model town       | 174672               | 8.62             | 530.57          | 7.81          | 749.44       | 7.03  | 709.17              | 7.07  |
| Kirari           | 162899               | 8.04             | 293.34          | 4.32          | 446.88       | 4.19  | 400.30              | 3.99  |
| Mangolpuri       | 223651               | 11.04            | 459.27          | 6.76          | 695.58       | 6.52  | 656.23              | 6.54  |
| Pitam pura       | 124019               | 6.12             | 527.71          | 7.76          | 662.42       | 6.21  | 629.08              | 6.27  |
| Moti nagar       | 150403               | 7.42             | 611.23          | 8.99          | 831.61       | 7.80  | 788.40              | 7.86  |
| Total            | 2026104.0            | 100.00           | 6797.11         | 100.00        | 10660.43     | 100.0 | 10028.15            | 100.0 |

#### Table 34: Divisions wise connections & energy consumptions

#### Table 35: Divisions wise AT&C losses (%) & T&D losses (%)

| S.No. | Division      | T&D loss (%) | AT&C loss (%) |
|-------|---------------|--------------|---------------|
| 1     | Badli         | 7.92%        | 8.59%         |
| 2     | Rohini        | 4.38%        | 4.22%         |
| 3     | Shalimar bagh | 5.58%        | 5.86%         |
| 4     | Bawana        | 7.76%        | 7.66%         |
| 5     | Narela        | 7.67%        | 7.82%         |
| 6     | Civil Line    | 2.14%        | 2.33%         |
| 7     | Keshavpuram   | 4.72%        | 4.31%         |
| 8     | Model town    | 5.37%        | 5.42%         |
| 9     | Kirari        | 10.42%       | 8.24%         |
| 10    | Mangolpuri    | 5.66%        | 5.58%         |
| 11    | Pitam pura    | 5.03%        | 5.13%         |
| 12    | Moti nagar    | 5.20%        | 5.39%         |

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





# 5.2.6. Feeder wise AT&C losses analysis

### 1. Feeder wise AT&C losses

Tata Power-DDL has ring main power distribution network. To provide uninterrupted power, back feeding points/normal operating points (NOP) are usually changed. Due to this dynamic nature of the network, connected consumers to a feeder at a particular point of time gets changed as the NOP changes. Tata Power-DDL is working on to implement technological solutions to capture these dynamic changes.

#### 2. High loss feeders

If we compare input energy of feeder and related consumption, in many cases, input is low as compared to consumption. Vis-a- Vis, in some feeders, gap is high on positive side.

Though critical parameters are monitored on monthly basis, substantial difference in the data will not be reflected on quarterly basis. Due to spread over of meter reading and billing in multiple cycle, rollover of consumers takes place from preceding quarter to current quarter and vice-aversa. Hence, in some of the feeders, the gap between input and consumption may be high on positive side and in some of the feeders it is negative. As the period of consideration widens or on rolling basis, variation gets normalized.

Considering the following feeders individually, it gives an impression that these feeders are having high MU loss. But considering them with the feeders with which these feeders share input energy and consumption, the MU losses gets reduced drastically.

| Table | 36: | High | Loss | Feeders |
|-------|-----|------|------|---------|

| Name of the<br>Station        | Feeder<br>Code/ID | Feeder Name   | Type of feeder<br>meter<br>(AMI/AMR/Other) | Received<br>at Feeder<br>(Final in<br>MU) | Feeder<br>Consumption<br>(In MU) | T&D<br>losses |
|-------------------------------|-------------------|---|--|---|----------------------------------|---------------|
| AIR KHAM PUR<br>GRID          | 21964084          | AIR KHAMPUR GRID<br>TO RENNY WELL                             | AMR  | 10.90                                     | 4.20                             | 6.70          |
| BAWANA<br>CLEAR WATER<br>GRID | 21979426          | BAWANA CLEAR<br>WATER GRID TO<br>GHOGHA (K) FDR<br>NO-1       | AMR  | 8.71                                      | 2.37                             | 6.34          |
| BAWANA<br>CLEAR WATER<br>GRID | 21979466          | BAWANA CLEAR<br>WATER GRID TO<br>DARYAPUR NANGAL<br>S/S (O/D) | AMR  | 14.29                                     | 4.70                             | 9.59          |
| POOTH KHURD<br>GRID           | 21979846          | POOTH KHURD GRID<br>TO DISTRICT<br>OFFICE BAWANA -1           | AMR  | 15.41                                     | 8.80                             | 6.61          |
| POOTH KHURD<br>GRID           | 21979866          | POOTH KHURD GRID<br>TO SOS BAWANA                             | AMR  | 11.95                                     | 5.98                             | 5.97          |
| CIVIL LINE<br>GRID            | 21986317          | 6.6KV CHANDRAWAL<br>WATERWORKS S/S<br>NO-2 FDR-2              | AMR  | 11.85                                     | 0.00                             | 11.85         |
| CIVIL LINE<br>GRID            | 21986367          | WAZIRABAD WATER<br>WORKS S/S NO-1                             | AMR  | 12.73                                     | 0.00                             | 12.73         |
| JAHANGIR<br>PURI GRID         | 21987777          | JAHANGIRPURI<br>GRID TO DDA NO-2<br>S/S FDR                   | AMR  | 11.19                                     | 3.08                             | 8.11          |
| HAIDER PUR<br>GRID            | 21996813          | HAIDER PUR GRID<br>TO HAIDER PUR<br>W.W NO-2                  | AMR  | 17.15                                     | 0.00                             | 17.15         |
| HAIDER PUR<br>GRID            | 21996883          | HAIDER PUR GRID<br>TO HAIDER PUR<br>W.W NO-4                  | AMR  | 12.60                                     | 0.00                             | 12.60         |
| HAIDER PUR<br>GRID            | 21996893          | HAIDER PUR GRID<br>TO HAIDER PUR<br>W.W NO-3                  | AMR  | 17.26                                     | 0.00                             | 17.26         |
| DIFR GRID                     | 21998043          | DIFR GRID TO SSPL<br>FEEDER NO-1                              | AMR  | 13.32                                     | 0.23                             | 13.09         |
| BAWANA<br>CLEAR WATER<br>GRID | 22000148          | BAWANA CLEAR<br>WATER GRID TO A-<br>BLOCK SEC2                | AMR  | 13.93                                     | 1.78                             | 12.15         |
| WAZIRABAD<br>GRID             | 22000318          | WAZIRABAD GRID<br>TO WAZIRABAD<br>WATER WORKS<br>S/STN-6      | AMR  | 10.71                                     | 0.00                             | 10.71         |
| BAWANA-6<br>GRID              | 22012174          | BWN-6 TO RG-34<br>INTERCONNECTOR<br>S/S - 1&2                 | AMR  | 8.75                                      | 0.00                             | 8.75          |
| ROHINI - 24<br>GRID           | 22028604          | ROHINI - 24 GRID<br>TO RMU NEAR RG-<br>24 S/S                 | AMR  | 22.53                                     | 14.93                            | 7.60          |
| BAWANA-1<br>66kV              | 22030879          | BAWANA-1 GRID TO<br>I-19 SEC-2 NEAR<br>GOL CHAKKAR            | AMR  | 17.85                                     | 1.92                             | 15.93         |
| BAWANA-1<br>66kV              | 22030939          | BAWANA-1 GRID TO<br>K-1 BLK.SEC-1                             | AMR  | 22.35                                     | 13.95                            | 8.40          |

| RANI BAGH CC<br>GRID | 22031614  | RANI BAGH CC GRID<br>TO COMM.<br>COMPLEX S/S NO-4 | AMR | 7.29  | 0.21 | 7.08  |
|----------------------|-----------|---|-----|-------|------|-------|
| BAWANA-6<br>GRID     | 230463344 | BWN-6 TO RG-34<br>INTERCONNECTOR<br>S/S 3&4       | AMR | 18.53 | 0.00 | 18.53 |

# 5.2.7. Identify overloaded segments/ infrastructure

Count of Overload feeders in Tata Power DDL is Zero.

In TPDDL network planning of feeders/ sections is being done 2-3 years prior to implementation at site, for overcoming any chance of overloading crisis occurrence in future.

# 5.3. Subsidy computation and analysis (based on quarterly data)

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

#### Table 37: Category wise subsidyDivision wise subsidy details

|  |  | В              | illed Energ         | gy             | Subsid                           | ized Billed                                 | Energy         | Applica<br>of Sub<br>notifi<br>State | ble rate<br>sidy as<br>ed by<br>Govt. | Subsid                    | y Due fro<br>Govt.               | m State      | Subsidy<br>Actually  |  | Balan<br>ce<br>Subsi   |
|--|--|----------------|---------------------|----------------|----------------------------------|---|----------------|--------------------------------------|---------------------------------------|---------------------------|----------------------------------|--------------|--|--|--|
| Consumer<br>Category<br>(Separate for<br>each<br>subsidized<br>consumer<br>category) |  | Metere<br>d    | Un-<br>meter<br>ed* | Total          | Metere<br>d (out<br>of<br>col.2) | Un-<br>meter<br>ed*<br>(Out<br>of<br>col.3) | Total          | Meter<br>ed<br>Energ<br>y**          | Un-<br>mete<br>red<br>Energ<br>y**    | Mete<br>red<br>Ener<br>gy | Un-<br>mete<br>red<br>Ener<br>gy | Total        | Billed/cl<br>aimed<br>from<br>State<br>Govt. (As<br>against<br>col.12) | ved<br>from<br>State<br>Govt.<br>(As<br>again<br>st<br>col.1<br>3) | dy<br>yet<br>to be<br>Recei<br>ved<br>from<br>State<br>Govt. |
|  |  |                | (In kwh)            |                |                                  | (In kwh)                                    |                | (In Rs,                              | /Kwh)                                 |                           | (In Rs. Cr                       | .)           | (In Rs.<br>Cr.)  | (In<br>Rs.<br>Cr.)   | (In<br>Rs.<br>Cr.)   |
| 1  |  | 2              | 3                   | 4=2+3          | 5                                | 6   | 7=5+6          | 8                                    | 9                                     | 10=5<br>x8                | 11=6<br>x9                       | 12=10<br>+11 | 13   | 14   | 15=1<br>3-14   |
| Opening<br>Balance<br>(01/01/2024)   |  |                |                     |                |                                  |   |                |                                      |                                       |                           |                                  |              |  | 18.68  |  |
|  | 0-<br>20<br>0<br>uni<br>ts<br>p<br>m       | 111845<br>1808 |                     | 111845<br>1808 | 111845<br>1808                   |   | 111845<br>1808 | Entire<br>curren<br>t<br>dema<br>nd  |                                       |                           |                                  |              | 916.87   | ,  |  |
| Residential  | 20<br>1-<br>40<br>0<br>uni<br>ts<br>p<br>m | 160527<br>9536 |                     | 160527<br>9536 |                                  |   |                | Rs.<br>800<br>per<br>month           |                                       |                           |                                  |              |  | -<br>872.5<br>4  | 67.82  |
| Agriculture  |  | 146096<br>42   |                     | 146096<br>42   |                                  |   |                | Rs.<br>105<br>per<br>kw/m<br>onth    |                                       |                           |                                  |              | 3.13   |  |  |
| Commercial/I<br>ndustrial-LT   |  |                |                     |                |                                  |   |                |                                      |                                       |                           |                                  |              |  |  |  |

| Commercial/I<br>ndustrial-HT |                |      |                |                |      |                |      |      |      |      |      |        |                 |       |
|------------------------------|----------------|------|----------------|----------------|------|----------------|------|------|------|------|------|--------|-----------------|-------|
| Other<br>(Specify)           |                |      |                |                |      |                |      |      |      |      |      | 1.68   |                 |       |
| Total                        | 273834<br>0986 | 0.00 | 273834<br>0986 | 111845<br>1808 | 0.00 | 111845<br>1808 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 921.68 | -<br>853.8<br>6 | 67.82 |

# 5.4. Trend analysis and identification of key exceptions

Details maybe specified such as performance of DISCOM in FY 2022-23 Vs FY2023-24, annually comparison, circle wise analysis, where the DISCOM has improved and where needs improvement etc.

#### a) Summary Comparison of AT&C and T&D losses

Division Wise Comparison of T&D and AT&C losses For FY 2022-23 & FY 2023-24 are shown in below Table:

#### AT&C Loss T&D Loss Name of Division FY 2022-23 FY 2023-24 FY 2022-23 FY 2023-24 Badli 8.59% 7.80% 8.15% 7.92% Bawana 8.90% 7.66% 9.20% 7.76% **Civil Lines** 2.47% 2.33% 1.52% 2.14% Keshav Puram 6.35% 4.31% 5.44% 4.72% Mangolpuri 5.58% 7.21% 7.60% 5.66% Model Town 5.42% 5.01% 5.37% 5.03% Moti Nagar 4.91% 5.39% 5.14% 5.20% Narela 8.34% 7.82% 8.36% 7.67% Pitam Pura 5.03% 4.47% 5.13% 4.68% Rohini 4.08% 4.22% 4.25% 4.38% Kirari 11.83% 8.24% 12.10% 10.42% Shalimar Bagh 5.83% 5.86% 5.98% 5.58%

#### Table 38: Comparison of AT&C and T&D losses for last twoYears

#### Figure 12: Last two years AT&C loss trend





Figure 13: Last two years T&D loss trend

#### b) Summary of AT&C losses for last three Years

The AT&C losses for FY2021-22, FY 2022-23 & FY 2023-24are as shown below:

|  |             |            | -          |            |
|--|-------------|------------|------------|------------|
| Technical Details                              | UoM         | FY 2021-22 | FY 2022-23 | FY 2023-24 |
| Input Energy Purchase                          | Million kWb | 11737.11   | 12741.47   | 12686.10   |
| (From Generation Source)*                      |             |            |            |            |
| Net input energy (at DISCOM Periphery after    |             |            |            |            |
| adjusting the transmission losses and energy   | Million kWh | 9424.75    | 10622.62   | 10660.43   |
| traded)  |             |            |            |            |
| Total Energy billed (is the Net energy billed, | Million kWh | 8752.21    | 9946.33    | 10028.15   |
| adjusted for energy traded))                   |             |            |            |            |
| Transmission and Distribution (T&D) loss       | Million kWh | 672.55     | 676.29     | 632.28     |
| Details  | %           | 7.14%      | 6.37%      | 5.93%      |
| Collection Efficiency                          | %           | 100.36%    | 100%       | 100.01%    |
| Aggregate Technical & Commercial Loss          | %           | 6.80%      | 6.36%      | 5.92%      |

# Table 39: AT&C losses Trend for last three Years

# 6. Energy Audit findings

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

The Energy Accounting/Audit wing in the DISCOM has been implemented from 11-Feb-22. The Organogram of the DISCOM is as shown below:

### Figure 14: Organogram of Energy accounting in the DISCOM



#### Table 40: Details of energy manager and Authorized signatory of DISCOM

| Designation                 | No. of Officers     |
|-----------------------------|---------------------|
| CEO                         | Mr. Gajanan S. Kale |
| General Manager             | Mr. HC Sharma       |
| DGM (Energy Manager)        | Mr. Davinder Bhatia |
| Head of Group, Energy Audit | Mr. Hari Om Sharma  |
| Sr. Manager, Energy Audit   | Mr. Neeraj Singh    |
| Sr. Manager, Energy Audit   | Ms. Gagandeep Kaur  |
| Finance Manager             | Mr. Sachin Gupta    |
| IT Manager                  | Ms. Kamakshi Oberoi |

# 6.2. Critical Analysis

- The monthly consumption per customer stands at 412.46kWh/Month. Tata Power-DDL caters to area spread in 5 circles, 12 Division, 31 numbers of sub-division, 19096 number of feeders, 8691 number of DTs and 2026104 number of consumers.
- Verified transmission losses, distribution (T&D) losses, collection efficiency & aggregate technical & commercial losses of Tata Power Delhi Distribution Limited for FY23-24 was 4.15%, 5.93 %, 100.01 % &5.92 % respectively.
- The electrical energy is supplied by various interstate and intrastate gene rating stations and same is supplied to customers at 66 KV, 33 KV, 11 KV, 6.6KV, 400V and 230 V single phase.
- Tata Power–DDL has implemented several world-class technologies such as Advance Distribution Management system or ADMS which is designed to replace the conventional SCADA-DMS-OMS system with features like real-time integration of Smart Meter Data / Distributed Generation integration and single data model from GIS , Integrated Geographical Information System (GIS) for instant services, Advanced Metering Infrastructure (AMI), Automated Demand Response (ADR), Smart Street Light Management system, Field Force Automation, Upgraded Network etc.
- Tata Power DDLhas implemented various energy conservation measures under DSM programme i.e., AC Replacement Scheme, BLDC Ceiling Fan, LED Lighting Scheme, Behavioural Demand Response (BDR) etc.
- Tata Power DDL calculation methodology of AT&C Losses calculated as per BEE proforma the calculation is as per actual collection efficiency.
- Tata Power-DDL has 100% metering available at 11/33/66 KV system. However, there is 100% metering at consumer end and 70% metering available at DT.

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

It was observed that there has been significant delay in submission of Quarterly Accounts during first two Quarters (i.e., Q1 and Q2 of FY 2023-24) however, the delay has been reduced in Quarter 3 and Quarter 4 of FY 2023-24. 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:

| Clause | Details           | Sub-<br>Clause | Criteria                                 | Compliance<br>Status |
|--------|-------------------|----------------|--|----------------------|
| 3      | Intervals of time | а              | Conducted an annual energy audit for     | Yes                  |
|        | for conduct of    |                | every financial year and submitted the   |                      |
|        | annual energy     |                | annual energy audit report to the Bureau |                      |

#### Table 41: Compliance status w.r.t Timelines and Pre-requisites

| Clause | Details            | Sub-<br>Clause | Criteria  | Compliance<br>Status |
|--------|--------------------|----------------|---|----------------------|
|        | audit              |                | 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                       |                      |
| 4      | Intervals of time  | а              | All feeder wise, circle wise and division         | Yes                  |
|        | for conduct of     |                | wise periodic energy accounting is                |                      |
|        | periodic energy    |                | conducted by the energy manager of the            |                      |
|        | accounting.        |                | electricity distribution company for each         |                      |
|        |                    |                | quarter of the financial year.                    |                      |
|        |                    | b              | All feeder wise, circle wise and division         | Yes                  |
|        |                    |                | wise periodic energy accounting is                |                      |
|        |                    |                | conducted by the energy manager of the            |                      |
|        |                    |                | electricity distribution company for each         |                      |
|        |                    |                | quarter of the financial year.                    |                      |
|        |                    | С              | Electricity distribution company conducted        | Yes                  |
|        |                    |                | its first periodic energy accounting, for         |                      |
|        |                    |                | the last quarter of the financial year            |                      |
|        |                    |                | immediately preceding the date of such            |                      |
|        |                    |                | commencement (i.e., 6 <sup>th</sup> October 2021) |                      |
|        |                    | d              | Electricity distribution company conducted        | Yes                  |
|        |                    |                | 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 submits             |                      |
|        |                    |                | the periodic energy accounting report             |                      |
|        |                    |                | within sixty days from the date of periodic       |                      |
|        |                    |                | energy accounting.                                |                      |
| 5      | Pre-requisites for | а              | Pre-requisites for annual energy audit and        | Yes                  |
|        | annual energy      |                | periodic energy accounting                        |                      |
|        | audit and          | b              | Identification and mapping of high tension        | Yes                  |
|        | periodic energy    |                | and low-tension consumers                         |                      |
|        | accounting         | С              | Development and implementation of                 | Yes                  |
|        |                    |                | information technology enabled energy             |                      |
|        |                    |                | accounting and audit system, including            |                      |
|        |                    |                | associated software                               |                      |
|        |                    | d              | Electricity distribution company ensures          | Yes                  |
|        |                    |                | the installation of functional meters for all     |                      |
|        |                    |                | consumers, transformers and feeders.              |                      |
|        |                    |                | Meter installation is done in a phased            |                      |

| Clause | Details | Sub-<br>Clause | Criteria                                     | Compliance<br>Status |
|--------|---------|----------------|--|----------------------|
|        |         |                | manner within a period of three financial    |                      |
|        |         |                | 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.                                      |                      |
|        |         |                | d.2. All Distribution Transformers (other    | NA                   |
|        |         |                | 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:  |                      |
|        |         |                | d.2.1. All Electricity Divisions of 500      | NA                   |
|        |         |                | AMRUT cities, with AT&C Losses > $15\%$      |                      |
|        |         |                | d.2.2. All Union Territories (for areas with | NA                   |
|        |         |                | technical difficulty, non-communicable       |                      |
|        |         |                | meters may be installed)                     |                      |
|        |         |                |  | No                   |
|        |         |                | d.2.3. All Industrial and Commercial         | Yes                  |
|        |         |                | consumers                                    |                      |
|        |         |                | d.2.4. All Government offices at Block       | Yes                  |
|        |         |                | level and above                              |                      |
|        |         |                | d.2.5. Other high loss areas i.e., rural     | Yes                  |
|        |         |                | areas with losses more than 25% and          |                      |
|        |         |                | urban areas with losses more than 15%        |                      |
|        |         |                | d.3. Prepaid Smart Consumer Metering to      | NA                   |
|        |         |                | 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%;        |                      |
|        |         |                | d.3.2. All Union Territories (for areas with | NA                   |
|        |         |                | technical difficulty, prepaid meters to be   |                      |
|        |         |                | installed);                                  |                      |
|        |         |                | d.3.3. All Industrial and Commercial         | NA                   |

| Clause Details Sub-<br>Clause Criteria | Compliance<br>Status |
|--|----------------------|
| consumers;                             |                      |
| d.3.4. All Government offices at Bl    | lock NA              |
| level and above;                       |                      |
| d.3.5. Other high loss areas i.e., r   | ural NA              |
| areas with losses more than 25%        | and                  |
| urban areas with losses more than      | 15%.                 |
| d.4. Consumer Metering: 98% by         | FY Yes               |
| 2022-23 99% by FY 2023-24              |                      |
| d.5. Targets for functional meters     | - Meter Yes          |
| FY 22-23 FY 23-24 FY24-25 Feede        | r                    |
| metering 98.5% 99.5% DT                |                      |
| metering 90% 95% 98% Consume           | er                   |
| metering 93% 96% 98                    |                      |
| e e.1. All distribution transformers ( | other                |
| than high voltage distribution syst    | em up                |
| to 25kVA and other distribution sy     | stem                 |
| below 25 kVA) is metered with          |                      |
| communicable meters.                   |                      |
| e.2. And existing non communicat       | le                   |
| distribution transformer meters is     |                      |
| replaced with communicable mete        | rs and               |
| integrated with advanced metering      | g l                  |
| infrastructure.                        |                      |
| f Electricity distribution company ha  | IS                   |
| established an information technol     | logy                 |
| enabled system to create energy        |                      |
| accounting reports without any ma      | anual                |
| interference and such systems ma       | y be                 |
| within a period of three years from    | n the                |
| date of the commencement of the        | se                   |
| regulations in case of urban and p     | riority              |
| area consumers; and within five y      | ears                 |
| from the date of the commenceme        | ent of               |
| these regulations in case of rural     |                      |
| consumers                              |                      |
| g Electricity distribution company ha  | is a Yes             |
| centralized energy accounting and      | audit                |
| cell comprising of                     |                      |
| (i) a nodal officer, an energy mana    | ager                 |
|  |                      |

| Clause | Details            | Sub-<br>Clause | Criteria                                   | Compliance<br>Status |
|--------|--------------------|----------------|--|----------------------|
|        |                    |                | having professional experience of not less |                      |
|        |                    |                | than five years; and                       |                      |
|        |                    |                | (ii) a financial manager having            |                      |
|        |                    |                | professional experience of not less than   |                      |
|        |                    |                | five years                                 |                      |
| 6      | Reporting          | а              | Electricity distribution company has a     | Yes                  |
|        | requirements for   |                | nodal officer, who is a full-time employee |                      |
|        | annual energy      |                | of the electricity distribution company in |                      |
|        | audit and periodic |                | the rank of the Chief Engineer or above,   |                      |
|        | energy accounting  |                | for the purpose of reporting of the annual |                      |
|        |                    |                | energy audit and periodic energy           |                      |
|        |                    |                | accounting and communicate the same to     |                      |
|        |                    |                | the Bureau                                 |                      |
|        |                    | b              | Electricity distribution company ensures   | Yes                  |
|        |                    |                | 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.                          |                      |
|        |                    | С              | Metering of distribution transformers at   | NA                   |
|        |                    |                | High Voltage Distribution System up to     |                      |
|        |                    |                | 25KVA is done on cluster meter installed   |                      |
|        |                    |                | by the electricity distribution company    |                      |
|        |                    | d              | The energy accounting and audit system     |                      |
|        |                    |                | and software is developed to create        |                      |
|        |                    |                | monthly, quarterly and yearly energy       |                      |
|        |                    |                | accounting reports.                        |                      |
|        |                    | С              | Electricity distribution company has       | Yes                  |
|        |                    |                | 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                   |                      |

# 6.2.2. 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:

| S. No. | Data gaps raised by<br>Energy Auditor  | Response shared by DISCOM   | Status of data submission<br>by DISCOM |
|--------|--|---|--|
|        | Net Input Energy is<br>10660.43 MUs not matching<br>the total energy available in<br>Form Input 10742.30 MUs     | Net Input Energy calculation:<br>Net Input Energy received at<br>DISCOM periphery – Open Access +<br>Solar Generation   | Submitted                              |
|        | Voltage wise power<br>purchase is not available as<br>per BEE format as<br>mentioned in Infrastructure<br>sheet. | Voltage wise power purchase details<br>are not available, as the invoice of<br>power purchase contains only units<br>purchased and details of power plant<br>voltage not available.   |  |
|        | Voltage wise input billed<br>energy not available  | Majority of feeders are common to<br>LT & HT. So input energy supplied is<br>inseparable.<br>This comprises of input at 33 & 66 kV<br>as the two can't be mentioned<br>separately.  |  |
|        |  | Cumulated EHT sales MUs for 33kV<br>and above are maintained and<br>therefore bifurcation of same is not<br>available. Same also provided in A.6<br>of Form-input energy sheet  |  |
|        | Feeder wise AT&C losses<br>not available.  | Tata Power-DDL has ring main power<br>distribution network. To provide<br>uninterrupted power, back feeding<br>points/normal operating points (NOP)<br>are usually changed. Due to this<br>dynamic nature of the network,<br>connected consumers to a feeder at a<br>particular point of time will change as<br>the NOP changes. Tata Power-DDL is<br>working on to implement<br>technological solutions to capture<br>these dynamic changes. |  |
|        |  | Hence, if we compare input energy of<br>feeder and related consumption, in<br>many cases, input is low as<br>compared to consumption. Vis-a- Vis,<br>in some feeders, gap is high in<br>positive side.  |  |
|        |  | Though critical parameters are<br>monitored on monthly basis,<br>substantial difference in the data will<br>not be reflected on quarterly basis.<br>Due to spread over of meter reading   |  |

#### Table 42: Summary of Data gaps

| S. No. | Data gaps raised by<br>Energy Auditor | Response shared by DISCOM   | Status of data submission<br>by DISCOM |
|--------|---------------------------------------|---|--|
|        |                                       | and billing in multiple cycle, rollover<br>of consumers takes place from<br>preceding quarter to current quarter<br>and vice-a-versa. Hence, in some of<br>the feeders the gap between input<br>and consumption may be high on<br>positive side and in some of the<br>feeders it is negative. As the period<br>of consideration widens or on rolling<br>basis, variation gets normalized. |  |
|        | POC losses are not available          | Generation at Transmission<br>periphery- Point of connection loss<br>(POC) and input voltage level are not<br>available. As the power drawn is<br>supplied through Central<br>Transmission Utility (Power Grid) and<br>State Transmission Utility (Delhi<br>Transco).   |  |

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

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

| S.<br>No. | Comments by Energy Auditor  | Response of DISCOM's management  |
|-----------|---|--|
|           | Kindly provide the filled in format as per BEE.   | Provided by Tata Power-DDL   |
|           | Quarterly format as per BEE   | Provided by Tata Power -DDL  |
|           | Kindly provide the identification and<br>mapping of all of the electrical<br>network assets   | GIS Mapping  |
|           | Kindly provide the identification and<br>mapping of high tension and low-<br>tension consumers  | GIS Mapping  |
|           | Kindly provide the details of the<br>energy accounting data - generated<br>from a metering system or till such<br>time the metering system is not in<br>place, by an agreed method of<br>assumption as may be prescribed by<br>the State Commission | Metering is provided and home grown software is used as per tariff category. |
|           | Whether the Metering of distribution<br>transformers at High Voltage<br>Distribution System up to 25KVA is<br>done on cluster metering? If not what<br>is the action plan   | No, HVDS installation  |
|           | Energy (Electrical) Purchase report for the year 2023-24  | Provided by Tata Power-DDL   |

### Table 43: Comments by Energy Auditor and responses of DISCOM management

| S.<br>No. | Comments by Energy Auditor   | Response of DISCOM's management  |
|-----------|--|--|
|           | Open access consumer and their details                               | Provided by Tata Power-DDL   |
|           | Peak Demand of the system  | Provided by Tata Power-DDL   |
|           | High loss Network segments   | The segment identification is not possible due to ring main.                               |
|           | Energy Conservational Schemes<br>implemented                         | Provided by Tata Power-DDL   |
|           | Power Distribution Transformer                                       | Provided by Tata Power-DDL   |
|           | Maintenance practices - Power<br>Substation , HT lines LT lines ,DTR | Provided by Tata Power-DDL   |
|           | Average Billing Rate   | Category wise consumer and total billed energy of those consumer is provided by Tata Power |

# 6.3. Revised findings based on data validation and field verification

Site visits were carried out to ascertain the meter number and the input serial number of the meters. Physical verification along with system data was verified.

At the time of field visit, feeder meters found in working conditions, Logbook is maintained on daily basis including hourly loading pattern, running feeder & energy consumption.

Conducted Raid by Departmental Team and Vigilance also: To catch Theft and Lodge FIR against it,On the basis of inspection Police registered the case of direct theft

Field visit of Substations, DTs and commercial building was done during the audit time. It was also observed 100% consumers are metered.

# 6.4. Inclusions and Exclusions

| Particulars             | FY 2022-23 | FY 2023-24 |
|-------------------------|------------|------------|
| Number of circles       | 5          | 5          |
| Number of divisions     | 12         | 12         |
| Number of sub-divisions | 31         | 31         |
| Number of feeders       | 18463      | 19096      |
| Number of DTs           | 8157       | 8691       |
| Number of consumers     | 1959098    | 2026104    |

# 7. Conclusion and Action Plan

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

The primary energy-consuming areas are the distribution network, office buildings, and fleet of vehicles used for maintenance and repairs. The distribution network accounts for the majority of energy consumption, followed by office buildings and vehicles.

# 7.1.1. Recommendations:

- 1. Installation of Smart Meters.
- 2. Installation of Automatic Power factor controller (Capacitor Bank) at newly constructed PSS.
- 3. System improvement & automation.
- 4. Load balancing of distribution transformers.

# 7.1.2. 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.

# 7.2. Summary of key findings – energy balance and losses

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

| Energy Input Details                             | Formula              | UoM | Value    |
|--|----------------------|-----|----------|
| Input Energy Purchase (From Generation Source)   | A                    | MU  | 12686.10 |
| Net input energy (at DISCOM Periphery after      |                      |     |          |
| adjusting the transmission losses and energy     | В                    | MU  | 10660.43 |
| traded)  |                      |     |          |
| Total Energy billed (is the Net energy billed,   | С                    | MU  | 10028.15 |
| adjusted for energy traded))                     |                      |     |          |
| Transmission and Distribution (T&D) loss Details | D                    | MU  | 632.28   |
|  | $E = D/B \times 100$ | %   | 5.93%    |
| Collection Efficiency                            | F                    | %   | 100.01%  |
| Aggregate Technical & Commercial Loss            | G = 1-{(1-E) x       | %   | 5.92%    |
|  | Min(F,100%)          |     |          |

#### Table 44: Energy balance and losses

# 7.3. Recommendations and best practices

#### a) Energy accounting

In Accordance to clause 5(g) of Bureau of energy efficiency (Manner and intervals for conduct of Energy audit in Electrical distribution companies) Regulation issued by BEE Ministry of Power (GOI) dated 7th Oct 2021 to conduct Mandatory Annual Energy Audit & periodic Energy Accounting in Electrical Distribution Companies and as per guidelines issued by BEE vide L. No 18/BEE/DISCOM/2021/1348-94 dated 11th Feb 2022,an Energy Audit cell (EAC) is operating in Tata Power-DDL, Delhi.

There is Energy accounting cell to account for all the annual and quarterly energy accounting and audit data as per BEE regulation, vetted by internal energy manager and sent to BEE as per guidelines and Annual Energy Audit is being 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.

Tata Power-DDL is laying special emphasis on Energy Accounting at all levels. Steps are being taken to account for every unit of energy supplied to consumers. The following measures are being implemented.

- i. 100% Feeder Metering at 66/33/11kV Substations.
- ii. 100% DT Metering by end of FY2023-24 under RDSS.
- iii. 100% Consumer metering for all categories of consumers.

#### b) Loss reduction

TPDDL is a private licensee that distributes power to over seven million consumers in North and North-West Delhi. The Discom was formed in 2002 as a joint venture between Tata Power and the Government of Delhi.

Today, AT&C losses stand at 5.92% (as of FY 2023-24) which is an unprecedented reduction from an opening loss level of 53% in July 2002.

TPDDL leveraged technology to improve its operational efficiency and reduce its losses.

**Tata Power-DDL** has undertaken various initiatives for loss reduction. Some of the initiatives are as follows:

**Renovation in Metering Infrastructure:** Replacement of electromechanical meters, defective meters by electronic meters/ smart meters. Installation of AMR (Automatic Meter Reading) meters and tamper-proof static meters with facility of remote disconnection / reconnection as and when required.

Theft Control: Conducting raids in high loss areas for identifying pilferage of electricity.

**Substation automation and distribution automation**: Implementation of SCADA (Supervisory Control and Data Acquisition System) Control System for load management, including GIS mapping of assets.

**Network reconfiguration:** Electrical network designing wrt Standards and Guidelines, also considering network redundancy to increase system reliability.

Power factor improvement by automatic power factor controller.

**Microgrid solutions** to promote energy access to the areas where grid supply has not reached or is not feasible.

**HVDS:** Introduction of high voltage distribution system.

**AB Cable:** Replacement of bare conductor by AB (aerial bunched) Cable for shielding of possibilities of power theft.

**Process re-engineering for improvement of existing customer complaint**: improvement in all sorts of delay in billing, arrangement for spot billing etc. Improved process with IT application development.

**Customer care services:** Customer oriented management approach, like implementation of call center for 24 hours, improving customer care.

#### c) Energy conservation

TATA Power-DDL has always been frontrunner in choosing energy efficiency practices for building a sustainable greener tomorrow. The DISCOM has already undertaken sustainable initiative in scheme named 'Urja Arpan'.

Demand Side Management/ Behavioural Demand Response Program: Demand Response (DR) is the reduction in a customer's electric load during periods of peak demand or high market price. Taking a step forward in improving system reliability, Tata Power-DDL initiated Behavioural Demand Response program to review customer's acceptability, adaptability, and its impact for balancing the demand and supply of electricity during the peak hours. Through this program customers were advised to reduce the electricity usage for a specified duration during which overall electricity demand is estimated to reach at the peak and raising awareness among individuals and organizations about responsible and efficient electricity consumption. which further helps to avoid network overloading and also defer CAPEX investment require for augmentation. Cumulative load shed achieved in FY 22 is 7.69 MW and in FY 23 is 85.05 MW. Till now, 1 lac + enrolled customers have participated, achieving 560 MW cumulative load shed in 16 BDR events.

#### Energy Efficient Lighting and Fans

Scheme: Tata Power-DDL is offering Energy Efficient Products (EEPs) such as LED Bulbs and LED Tube Lights which have low maintenance and usage costs. These are durable and use up to 75% less energy than any other incandescent bulbs resulting in the reduction of monthly energy bills. In addition to lighting, option for BLDC fans at discounted rates is available. BLDC fans provide high cooling efficiency with lower energy consumption and also savings in electricity bills. BLDC motors do not have brushes so they are more reliable, high life expectancy and energy savings as

compared to conventional ceiling fans. With the added convenience of remote control, BLDC fan is a financially and environmentally smart choice for customers as it consumes half electrical load as compared to ordinary fans.

Ceiling Fan Replacement - Replacement of non-star rated fans with BEE 5 Star rated fans.

Consumption of 50/28 W against 70W conventional fans.

12,000 + items sold Replacement of conventional 70W fans with super-efficient BLDC fans (28W) at discounted price offers. Energy saving of approx.4.74 MUs.

# Launch of Clean Cooling Program with discount based Energy efficient ACs Scheme for Customers:

Tata Power-DDL in association with Voltas, Blue Star, General, Godrej, Hitachi is providing a discount-based scheme with or without Replacement of Old AC for all the customers.

# > Home Automation:

Tata Power-DDL is offering an IoT based solution which allows to operate, schedule, monitor appliances like lighting, fans, ACs, washing machines, geysers, TVs, refrigerators, etc. with phone or with voice control via Google assistant or Alexa.

# Home Automation (Sensors & Sensor Lights):

Tata Power-DDL is offering Motion Sensors: With Motion sensors, lights and appliances can be switched on during presence of a person in the area. In absence of motion, automatically turn off the lights.

Sensor Lights: When motion is detected, sensor lights automatically illuminate at full brightness. In the absence of motion automatically dim the area lights to 20%.

#### > Air Purifier Scheme:

Tata Power-DDL in association with Voltas has initiated the Air Purifiers scheme at special discounted rates. The Air Purifiers are powered with 6-stage filtration process and removes up to 99.90% airborne pollutants, eliminates impurities with ease.

#### > Washing Machine Scheme:

Tata Power-DDL has launched a 5 star rated washing machine scheme at special discounted rates in collaboration with Voltas-Beko.

- AC Replacement Program- Replacement of non- star rated AC with BEE 5 Star rated/ Inverter Technology AC by Voltas, Blue Star, Sharp & Godrej at discounted prices More than 6000+ items sold. Energy savings of approx. 1 MU.
- Digitization/ Adoption of digital lifestyle: By reducing paper consumption, and exploring digital alternatives, TATA Power-DDL contributes to environmental conservation and decreased carbon footprints, thus fostering a greener and eco-friendly workplace. E-billing is being adopted for consumer billing. Supporting green initiatives: Participation in local environmental programs, such as tree planting and clean-up drives.
- Celebration of Earth Day on 22<sup>nd</sup>April every year: As a collective responsibility to nurture and protect Mother Earth, DISCOM is urging consumers to shut down their power for 1 hour on Earth Day.

# 7.4. Action plan for line loss reduction

Following energy conservation Measures (ECMs) is adopted for line loss reduction

- 1. Installation of Smart Meters.
- 2. Installation of Automatic Power factor controller (Capacitor Bank).
- 3. System improvement & automation.
- 4. Improvement in metering system.
- 5. Replacing of conventional/ non star rated transformer into energy efficient transformers.
- 6. Replacement of all conventional mechanical energy meters with static digital energy meters having less power consumption and more accuracy.
- 7. Laying of AB cable in theft prone area where losses are in higher side.
- 8. HVD system to reduce low tension line losses.
- 9. Replacing worm out /under sized conductors.
- 10. Increase in HT/LT Ratio.
- 11. Preventive & Periodic maintenance of line & transformer.
- 12. Load balancing of distribution transformers.
- 13. MIS Based periodic reporting of unit wise business parameters.
- 14. Installation of solar generation plant & solar pumps.
- 15. Strengthening of energy accounting infrastructure- 100% consumer metering.
- 16. GIS based asset mapping of all 33/11KV Substations, 11KV Lines and distribution transformers has been completed.
- 17. 11KV Feeder wise base line technical data i.e., length, Peak load, VR and technical loss calculated by algorithm & published in power BI.
- 18. Feeder wise baseline commercial loss is being collected by subtracting technical loss for total T&D loss.
- 19. Selection/priority of area must be made under:
  - I. Feeder having VR more than 15%.
  - II. Feeder having VR more than 9 to 15%.
  - III. High T&D loss feeder.
  - IV. High commercial loss feeder.

# 7.5. Action plan for monitoring and reporting

- 1. Energy Audit Cell as per BEE Regulation.
- 2. GIS Based mapping for all feeder monitoring.
- 3. Substation wise dashboard for all substation monitoring
- 4. Division dashboard for monitoring all division data.
- 5. Critical Parameters dashboard for KPI.
- 6. Customer care help line number.

### 7.6. 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. Mentioned below is 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 billing and metering
- Timeliness 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 Tata Power DDL 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. By following this plan, the company can successfully implement the system and achieve its 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 sector 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 are 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 1260 nos. projects, including 52 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                  |                           |
|--------------------------------------|---------------------------|
| Name of Accredited Firm              | Accredited Energy Auditor |
| A-Z energy Engineers Private Limited | Dr P.P Mittal (AEA 011)   |

## b) Composition of Team

| Sr.No. | Name                  | Qualification | <b>Registration No</b> | Experience (In<br>Years)/Sector |
|--------|-----------------------|---------------|------------------------|---------------------------------|
| 1      | Dr. P.P Mittal        | Ph.D, MBA     |                        | +45 Years                       |
| 2      | Mr. Vipon Chanda      | Sector Expert |                        | 30                              |
| 3      | Mr. V.P Sharma        | B. Tech,EA    |                        | 32 Years                        |
| 4      | Mr. Alok Kumar Tiwari | Engineer      |                        | 6 Years                         |
| 5      | Mr. Pankaj Chauhan    | Engineer      |                        | 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 conducted mandatory annual energy audit (Accounting) for Tata Power-DDL, Delhi (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.

Engine Autnorized Signatory Accredited Dr. P.P Mittal Energy Auditor -011

## Annexure II - Minutes of Meeting with the DISCOM team

Minutes of Meeting with TATA Power Delhi Distribution Ltd., New Delhi & A-Z Energy Engineers Pvt. Ltd., New Delhi

#### TATA Power Delhi Distribution Ltd

AZ Energy Engineers Pvt. Ltd.

The Audit team of A-Z Energy Engineers Pvt. Ltd., New Delhi visited EAG office of Tata Power-DDL in month of June 2024. The necessary verifications related to annual energy audit were also carried out at EAG office/ site offices of Tata Power-DDL. The Annual Energy Audit was conducted as per the provisions stipulated under BEE (Manner and Intervals for conduct of Energy Audit in electricity distribution Companies) Regulation 2021 and its amendment.

Following are the key observations during audit.

- BEE Proforma for FY 2023-24 was filled by Tata Power -DDL.
- Tata Power-DDL has provided the documents for Power purchase, Energy Input/Billed

i.e. Fact sheet, True Up Petition (FY 22-23), ARR (Annual Revenue Requirement) (FY 24-25) Petition filed.

- Tata Power-DDL has provided details for action plan to reduce losses.
- Verified T&D losses, AT&C losses & Collection Efficiency is 5.93%, 5.92% & 100.01% respectively based on the filled in proforma and verified source documents.
- Tata Power-DDL has 100% metering available at 11/33/66 KV system, 100% metering at consumer end and 70% metering available at DT.

| S.No. | Data Required for Annual Energy Audit                          | Status        |
|-------|--|---------------|
| 1     | Complete filled in Proforma for the year 2023-24<br>(Annually) | Provided      |
| 2     | Quarter wise report FY 2023-24                                 | Provided      |
| 3     | Action plan to reduce the T&D and AT&C losses                  | Provided      |
| 4     | Assets details matched with the proforma infrastructure sheets | Provided      |
| 5     | Verified T&D and AT&C losses of previous years                 | Provided      |
| 6     | Subsidy category Wise  | Provided      |
| 7     | DT Wise Losses   | Provided      |
| 8     | Feeder wise Losses   | Provided      |
| 9     | Voltage wise Input Energy                                      | Not Available |

Tata Power Delhi Distribution Limited

2 Energy Engineers Pvt. Ltd.

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## Annexure III - Check List prepared by auditing Firm

An annual energy audit checklist has been used to assess the energy efficiency of Tata Power DDL based on equipments, Accredited Energy Audit has developed the checklist to identify opportunities for energy cost reduction and recommend solutions.

► Following information has been collected for T&D system with documentary evidence

- Month wise input and billed energy.
- T&D losses computation approach.
- Un-metered energy consumption
- Internal field audit report of input and billed energy.
- Performance of discom on T&D and AT&C losses.
- Outcome of internal audit.
- Measures taken to reduce losses.
- Zone/circle/Division/Sub-division wise loss computation.
- Reduction achieved, measures adopted for energy conservation and quantity of energy saved.
- Category wise consumers energy input and energy billed details.
- Category wise consumers total no. of connections and connected load and % connected load
- Bifurcation of Input and Billed Energy (Circle & Division Wise).
- Write up on procedure followed for Technical loss analysis.
- Overloaded Feeder data

## 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:

| Parameters              | Total   | Covered during in<br>audit | Verified by<br>Auditor in Sample<br>Check | Remarks<br>(Source of<br>data) |
|-------------------------|---------|----------------------------|---|--------------------------------|
| Number of circles       | 5       | 5                          | Sample                                    |                                |
| Number of divisions     | 12      | 12                         | Sample                                    |                                |
| Number of sub-divisions | 31      | 31                         | Sample                                    |                                |
| Number of feeders       | 19096   | 19096                      | Sample                                    |                                |
| Number of DTs           | 8691    | 8691                       | Sample                                    |                                |
| Number of consumers     | 2026104 | 2026104                    | Sample                                    |                                |

#### Table 45: Infrastructure details

## Table 46: Metering details

| Parameters               | 66kV and above | 33kV | 11/22kV | LT      |  |
|--------------------------|----------------|------|---------|---------|--|
| Number of conventional   | 0              | 0    | 0       | 1503831 |  |
| metered consumers        | 0              | 0    | 0       | 1555051 |  |
| Number of consumers with | 0              | 0    | 0       | 30/120  |  |
| 'smart' meters           | 0              | 0    | 0       | 554120  |  |
| Number of consumers with | 0              | 0    | 0       | 3474    |  |
| 'smart prepaid' meters   | 0              | 0    | 0       | 5474    |  |
| Number of consumers with | Q              | 4    | 807     | 20840   |  |
| 'AMR' meters             | 0              | -    | 097     | 29049   |  |
| Number of consumers with |                |      |         |         |  |
| 'non-smart prepaid'      | 0              | 0    | 0       | 3921    |  |
| Meters                   |                |      |         |         |  |
| Number of unmetered      | 0              | 0    | 0       | 0       |  |
| consumers                | 0              | 0    | 0       | 0       |  |
| Number of total          | Q              | 4    | 807     | 2025105 |  |
| consumers                | 0              | 4    | 097     | 2023195 |  |
| Number of conventionally |                |      |         |         |  |
| metered Distribution     | NA             | NA   | 260     | NA      |  |
| Transformers             |                |      |         |         |  |
| Number of DTs with       | NA             | NA   | 5861    | NΛ      |  |
| communicable meters      | INA INA        |      | 2001    |         |  |
| Number of unmetered DTs  | NA             | NA   | 2570    | NA      |  |
| Number of total          |                |      | 8691    | NΔ      |  |
| Transformers             |                |      | 0051    |         |  |

| Parameters                                 | 66kV and above | 33kV | 11/22kV | LT                      |
|--|----------------|------|---------|-------------------------|
| Number of metered<br>feeders               | 142            | 115  | 1312    | No meters on LT feeders |
| Number of feeders with communicable meters | 142            | 115  | 1312    | No meters on LT feeders |
| Number of unmetered<br>feeders             | 0              | 0    | 0       | 17527                   |
| Number of total feeders                    | 142            | 115  | 1312    | 17527                   |
| Line length(cktkm)                         |                |      | 1865    |                         |
| Length of Aerial Bunched<br>Cables(cktkm)  | 5822           |      |         |                         |
| Length of Underground<br>Cables(cktkm)     | 6571.7         |      |         |                         |



## **Annexure VI - Electrical Distribution System**

## **Annexure VII - Power Purchase Details**

## a) Input Purchase Power generating station 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<br>Station     | Generatio<br>n Capacity<br>(In MW) | Type of<br>Station<br>Generation | Type of<br>Contract                                       | Type of<br>Grid |
|-------|-----------------------------------|------------------------------------|----------------------------------|---|-----------------|
| 1     | NTPC AravaliJhajjar               | 613                                | Coal                             | 25 Years  | Inter State     |
| 2     | NTPC Dadri NCTPS(Th.)<br>Stage II | 9                                  | Coal                             | 25 Years  | Inter State     |
| 3     | NTPC Kahalgaon II                 | 48                                 | Coal                             | 25 Years  | Inter State     |
| 4     | NTPC Singrauli STPS               | 46                                 | Coal                             | 30 Years  | Inter State     |
| 5     | NTPC Rihand STPS-II               | 39                                 | Coal                             | 25 Years  | Inter State     |
| 6     | NTPC Rihand STPS-I                | 31                                 | Coal                             | 28 Years  | Inter State     |
| 7     | NTPC Dadri GPS                    | 28                                 | Gas                              | 25 Years  | Inter State     |
| 8     | NTPC Auriya GPS                   | 22                                 | Gas                              | 35 Years  | Inter State     |
| 9     | NTPC Kahalgaon I                  | 16                                 | Coal                             | Till change of<br>allocation by<br>MoP in lieu of<br>Tala | Inter State     |
| 10    | NTPC ANTA GPS                     | 14                                 | Gas                              | 25 Years  | Inter State     |
| 11    | NTPC Unchahaar-II TPS             | 14                                 | Coal                             | 25 Years  | Inter State     |
| 12    | NTPC Unchahaar-III TPS            | 9                                  | Coal                             | 25 Years  | Inter State     |
| 13    | NTPC Unchahaar-I TPS              | 7                                  | Coal                             | 27 Years  | Inter State     |
| 14    | NTPC Farakka                      | 7                                  | Coal                             | Till change of<br>allocation by<br>MoP in lieu of<br>Tala | Inter State     |
| 15    | NTPC Singrauli Small Hydro        | 2                                  | RE                               | 35 Years  | Inter State     |
| 16    | NHPC Dulhasti                     | 15                                 | Hydro                            | 35 Years  | Inter State     |
| 17    | NHPC Parbati III                  | 20                                 | Hydro                            | 40 Years  | Inter State     |
| 18    | NHPC Bairasiul                    | 6                                  | Hydro                            | 25 Years  | Inter State     |
| 19    | NHPC Tanakpur                     | 3                                  | Hydro                            | 35 Years  | Inter State     |
| 20    | NHPC Chamera -I                   | 13                                 | Hydro                            | 35 Years  | Inter State     |
| 21    | NHPC Chamera-II                   | 12                                 | Hydro                            | 35 Years  | Inter State     |
| 22    | NHPC Chamera-III                  | 9                                  | Hydro                            | 35 Years  | Inter State     |
| 23    | NHPC URI-I                        | 16                                 | Hydro                            | 35 Years  | Inter State     |
| 24    | NHPC Uri-II                       | 10                                 | Hydro                            | 40 Years  | Inter State     |
| 25    | NHPC Dhauliganga                  | 11                                 | Hydro                            | 35 Years  | Inter State     |
| 26    | NHPC Sewa II                      | 5                                  | Hydro                            | 35 Years  | Inter State     |

| S.No. | Name of Generation<br>Station   | Generatio<br>n Capacity<br>(In MW) | Type of<br>Station<br>Generation | Type of<br>Contract         | Type of<br>Grid |
|-------|---|------------------------------------|----------------------------------|-----------------------------|-----------------|
| 27    | Narora APS  | 14                                 | Nuclear                          | 15 Years                    | Inter State     |
| 28    | RAPP 5&6  | 17                                 | Nuclear                          | 15 Years                    | Inter State     |
| 29    | CLP Jhajjar   | 132                                | Coal                             | 25 Years                    | Inter State     |
| 30    | Maithon Power Limited   | 300                                | Coal                             | 30 Years                    | Inter State     |
| 31    | SECI Solar (Renewable)  | 20                                 | RE                               | 25 Years                    | Inter State     |
| 32    | Tala HEP  | 9                                  | Hydro                            | As per<br>MoP/NRPC<br>order | Inter State     |
| 33    | CTPS 7  | 92                                 | Coal                             | 25 Years                    | Inter State     |
| 34    | CTPS 8  |                                    | Coal                             | 25 Years                    | Inter State     |
| 35    | MTPS 6  | 31                                 | Coal                             | 25 Years                    | Inter State     |
| 36    | Sasan   | 27 MW to<br>136 MW                 | Coal                             | 25 Years                    | Inter State     |
| 37    | NathpaJhakri HPS  | 44                                 | Hydro                            | 35 Years                    | Inter State     |
| 38    | Tehri HPP   | 19                                 | Hydro                            | 35 Years                    | Inter State     |
| 39    | Koteshwar HEP   | 12                                 | Hydro                            | 35 Years                    | Inter State     |
| 40    | Pragati- I  | 64                                 | Gas                              | 25 Years                    | Intra State     |
| 41    | Pragati III   | 298                                | Gas                              | 25 Years                    | Intra State     |
| 42    | IPGCL GT  | 27                                 | Gas                              | 10 Years                    | Intra State     |
| 43    | Delhi Municipal Solid Waste<br>Solutions Ltd. (Bawana)<br>(Renewable) | 7                                  | RE                               | 20 Years                    | Intra State     |
| 44    | Nanti Hydro Power Pvt. Ltd.<br>(Renewable)                            | 14                                 | RE                               | 20 Years                    | Inter State     |
| 45    | SuryakantaHydroenergiesPvt.<br>Ltd. (Renewable)                       | 14                                 | RE                               | 20 Years                    | Inter State     |
| 46    | Timarpur Okhla Waste<br>management co. Ltd.<br>(Renewable)            | 6                                  | RE                               | 20 Years                    | Intra State     |
| 47    | Sun Edison  | 180                                | RE                               | 20 Years                    | Inter State     |
| 48    | Taranda   | 13                                 | RE                               | 20 Years                    | Inter State     |
| 49    | SECI WIND   | 50                                 | RE                               | 25 Years                    | Inter State     |
| 50    | SECI 200 MW (SBSR)*   | 100                                | RE                               | 25 Years                    | Inter State     |
| 51    | Tehkhand Waste to<br>Electricity Project Ltd                          | 9                                  | RE                               | 25 Years                    | Intra State     |
| 52    | Cosmos Hydro  | 20                                 | RE                               | 20 Years                    | Inter State     |
| 53    | Medium Term 200 MW<br>(Kameng HEP)                                    | 200                                | Hydro                            | 5 Years                     | Inter State     |

1. \*SBSR 200 MW: - Out of total allocation of 200 MW, only 100 MW has been commissioned till Jun 2023

2. Contract period beyond useful life may depend upon agreement/Regulatory orders.

3. NTPC >25 years few stations under litigation before various forums.

| S.<br>No | Name of Generation<br>Station  | Generation<br>Capacity<br>(In MW) | Type of Station | Type of<br>Contract   | Type of<br>Grid   | Voltage<br>Level<br>(KVA) | Received at<br>Circle<br>(In MU) |
|----------|--------------------------------|-----------------------------------|-----------------|-----------------------|-------------------|---------------------------|----------------------------------|
| 1        | Poothkhurd 54KW<br>SPV PLANT   | 1                                 | Renewable       | Captive<br>Generation | On-Grid<br>System | 11 kV                     | 0.041192                         |
| 2        | Cenpeid                        | 0.225                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.008212                         |
| 3        | Corporate Office               | 0.06                              | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.003177                         |
| 4        | Cennet                         | 0.055                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.016685                         |
| 5        | КРМ                            | 0.054                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.856832                         |
| 6        | Narela A-7                     | 0.05                              | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.028187                         |
| 7        | BAWANA Clear Water<br>(45 KWp) | 0.049                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.031553                         |
| 8        | DSIDC-2 Narela                 | 0.043                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.010988                         |
| 9        | GTK solar                      | 0.02112                           | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.026311                         |
| 10       | RG-2                           | 0.025                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.027706                         |
| 11       | RG-24                          | 0.025                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.024903                         |
| 12       | RG-5                           | 0.024                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.223723                         |
| 13       | RG-22                          | 0.015                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.03862                          |
| 14       | RG-23                          | 0.004                             | Renewable       | Captive<br>Generation | On-Grid<br>System | 415 V                     | 0.03567                          |
| 15       | Net Metering                   |                                   |                 |                       |                   |                           | 2.63                             |

## b) Embedded Power generation for FY 2023-24

# Annexure VIII - Single Line Diagram (SLD)

The SLD of the DISCOM is as shown below:

## Figure 15: Single Line Diagram (SLD) of Tata Power DDL



## Annexure IX - Category of service details (With Consumer and voltagewise)

Type of consumers as per different voltage levels & number of consumers are shown in below table:

## Table 47: Category of service details

| Typeof Consumers           | Category<br>ofConsumers<br>(EHT/HT/LT/Others) | VoltageLe<br>vel | No<br>ofConsumers | TotalConsumpti<br>on<br>(InMU) |
|----------------------------|---|------------------|-------------------|--------------------------------|
| Domestic                   |   |                  | 1729505           | 4925.85                        |
| Commercial                 |   |                  |                   |                                |
| Water Supply               |   |                  |                   |                                |
| Public Lighting            |   |                  |                   |                                |
| HT Industrial              |   |                  | 802               | 656.16                         |
| Industrial (Small)         |   |                  | 282712            | 3779.90                        |
| HT Commercial              |   |                  |                   |                                |
| Agricultural               |   |                  | 4466              | 15.34                          |
| EV                         |   |                  |                   |                                |
| Others-3 (if any , specify |   |                  | 9610              | 650 906225                     |
| in remarks)                |   |                  | 6019              | 000.090000                     |
| TOTAL                      |   |                  | 2026104           | 10028.15                       |

## Annexure X - Field Verification data and reports

The field inspection details are shown in the below table:



## Table 48: Field inspection details









## Annexure XI - List of documents verified with each parameter

The documents verified are listed in the below table:

| S No  | Data Required for Annual Energy Audit           | Statuc               | Bomark                  |  |
|-------|---|----------------------|-------------------------|--|
| 3. NU | as per BEE regulation                           | Status               | Remark                  |  |
| 1     | Complete filled in Proforma for the year        | Provided             | Data Attachod           |  |
| -     | 2023-2024 (Annually)                            | riovided             | Data Attached           |  |
| 2     | Supporting Data with Month wise breakup         |                      |                         |  |
| Α     | Purchase Energy                                 |                      |                         |  |
| В     | Net Input in Discom                             | Month wice Not       |                         |  |
| С     | Billed Energy                                   | Month wise Not       | NA                      |  |
| D     | Billed Revenue                                  | Available            |                         |  |
| E     | Revenue Collected                               |                      |                         |  |
| F     | Energy Export to other                          |                      |                         |  |
| G     | Transmission loss calculation Methodology       | NA                   | NA                      |  |
| 3     | Feeder wise input,Billed Energy, T&D &          | Sample Provided      | Data Attached           |  |
| 5     | AT&C losses                                     | Sumple Hovided       |                         |  |
|       | Action plan to reduce the T&D and AT&C          | Provided the         | Action plan to          |  |
| 4     | losses  | various schemes      | reduce AT&C losses&     |  |
|       |   |                      | payback of RDSS Schemes |  |
| 5     | Assets details matched with the proforma        | Provided             | Data Attached           |  |
|       | infrastructure sheets                           |                      |                         |  |
| 6     | DT Wise loss provided                           | provided             | Proforma Attached       |  |
| 7     | Energy Flow Diagram                             | Data Attached        | Data Attached           |  |
| 8     | Subsidy category Wise (BEE Guideline            | Format Provided      | Data Attached in BEE    |  |
| 0     | proforma)                                       | r offinat i r ovided | Guideline proforma      |  |
| q     | High Loss area T&D & AT&C action plan to        | Provided             | Data Attached           |  |
| 5     | reduce losses                                   | Trovided             | Data Attached           |  |
| 10    | Power Map                                       | Provided             | Data Attached           |  |
| 11    | Current status of Metering status at            | Functional &Non      | 100 % metered           |  |
|       | Various Voltage level of Discom                 | details provided     | (operational)           |  |
| 12    | Status of default meter (non-functional meters) | Provided             | Data Attached           |  |

### Table 49: List of documents verified with each parameter

#### **Annexure XII - Brief Description of Unit**

Tata Power Delhi Distribution Limited [Tata Power-DDL] is a joint venture between Tata Power and the Government of NCT of Delhi with the majority stake being held by Tata Power Company (51%).

Tata Power-DDL is acknowledged for its consumer-friendly practices. Since privatization, the Aggregate Technical & Commercial (AT&C) losses in Tata Power-DDL areas have shown a record decline.

To ensure reliable power supply and to provide best in class service to its consumers, Tata Power–DDL has implemented several world-class technologies such as Advanced Distribution Management system or ADMS which is designed to replace the conventional SCADA-DMS-OMS system with features like real-time integration of Smart Meter Data / Distributed Generation integration and single data model from GIS , Integrated Geographical Information System (GIS) for instant services, Advanced Metering Infrastructure (AMI), Automated Demand Response (ADR), Smart Street Light Management system, Field Force Automation, Upgraded Network, Integrated Toll Free Helpline No. 19124, etc.

Tata Power-DDL is the first Indian utility to be a member of Global Intelligent Utility Network Coalition (GIUNC) which is a coalition of 14 power utilities worldwide and is working towards accelerating the development of common standards, technology solutions and processes for intelligent networks.

Tata Power-DDL provides various facilities and services to its consumers for their ease and convenience such as 24X7 Integrated Helpline, Mobile Application for both iOS and Android users, bilingual website, Multiple Payment Avenue, End to End online services for New Connection, etc.

Tata Power-DDL's contribution towards improving the ease of getting electricity connection through process simplification under 'Ease of doing Business' has contributed to raise India's ranking in 'Getting Electricity', from 137<sup>th</sup> rankingin 2015 to an impressive 22<sup>nd</sup> rankingin 2019.

TATA Power-DDL has also added solar generation as a part of its sustainable initiatives since 2008, and has installed 14Nos. of Rooftop Grid Interactive Solar PV Generation Power Plants in its Licensed Area with a total generation capacity of 1.65 MWp, and total generation of 2.8 MUs in FY 23-24. Wherein for Rooftop Solar panel installations, TATA Power-DDL has almost 3000 nos. (out of which 2000 nos. are of domestic consumers) of Consumer Solar rooftop plants with installed capacity of 67 MWp. The company is alreadyworking on setting up Smart Grid with the integration of Roof Top Solar, Energy Storage, E-charging of Electric Vehicles, Home Automation etc. in its network.

Tata Power-DDL's change management experience, distributed leadership system, adoption of latest technologies; robust competence development process and innovative & open work

culture are the key strategic boosters which helped in building and sustaining competitive advantage in the changing business scenario. A journey which began 2 decades ago for empowering the consumers in Delhi now holds the potential to transform the distribution sector in India and similarly help utilities across the globe. Tata Power-DDL has a presence in India in nearly 20+ States and working with 30+ Discoms including Goa, Haryana, Uttar Pradesh, Chhattisgarh, Odisha, Ajmer etc. as well as in International cities such as Benin, Eko, Kaduna, Kano in Nigeria etc.

Tata Power-DDL is focused and committed to the road ahead and is exploring new opportunities to replicate its experience of distribution reforms both in India and abroad. It is leveraging its unique learning and skillsets solely and in collaboration with leading utilities and technology providers like GE, IBM, Enel, Omron, 3M, Panasonic, AES, Mitsubishi etc. in the areas of communications & smart grid technology, change management, consumer service delivery and business process re-engineering. Tata Power-DDL has also collaborated with leading international and national Institutions like Harvard, MIT, Ryerson University, IIT Delhi, Punjab Engineering College, Delhi University, Netaji Subhas Institute of Technology etc. to carry out research activities in energy space.

| World Class Technologies , Tata Power DDL            |  |  |  |
|--|--|--|--|
| Advanced Distribution Management<br>System<br>(ADMS) | Advance Distribution Management System (ADMS) is a single<br>integrated system which facilitates advanced monitoring, analysis,<br>as well as control and planning, thereby enabling to enhance the<br>reliability, safety and efficiency of the power for the consumers. This<br>system has advanced features of reporting outages and intimating to<br>customers upfront.<br>This system facilitates system controller as well as maintenance<br>team for faster restoration of supply.  |  |  |
| Geographical information System<br>(GIS)             | Geographical Information System (GIS) is a foundational technology<br>and single source to have repository of network, asset and consumer<br>indexing for Tata Power-DDL. The data of this system gets<br>integrated with ADMS, FFA, ERP, AMI, etc. for successful functioning<br>of respective systems.<br>This system enables delivering of results in terms of reliable &<br>quality power along with advanced services and timely information<br>to the consumers.   |  |  |
| Smart Meter  | Smart Meters are basic building blocks of Smart Grid.<br>This technology encompasses Communication System (RF/ NB-IoT/<br>4G based)and Data Handling Technologies (Meter Data Management<br>System).<br>Tata Power-DDL is implementing Smart Metering Technology<br>(Advanced Metering Infrastructure-AMI) to bring operational<br>efficiency in different IT and OT domains. This technology will bring<br>transparency to consumers in terms of their consumption per month<br>and monitoring of other critical parameters like MDI and PF on an<br>instant basis. For Tata Power-DDL, it enables easy detection of<br>pilferage and loss reduction. This last mile link will complete Smart<br>Grid implementation by Tata Power-DDL. |  |  |

| World C                                 | lass Technologies , Tata Power DDL   |
|---|--|
| Smart Street Light Management<br>system | Tata Power-DDL jointly is working on a project for achieving a reduction in the demand of street lighting which coincides with peak load, thereby reducing the overall peak demand, improving the lux levels, improving the power factor and checking the carbon foot print as a responsibility to the society. This will translate into considerable saving to the exchequers. This system is entirely managed through a Smart Centralized Control & Monitoring System which can identify partially or completely affected streetlight circuits on a real-time basis and the type/nature of fault, thereby alerting the maintenance team without any requirement of consumer complaints for such purpose. This will enhance safety & security of general public. It can also detect pilferage from street light circuits and generate alerts. |
| Field Force Automation                  | Customer service through mobile workforce is the key to exceed the expectations of the consumer. Field Force Automation (FFA) is a system which optimizes the various tasks in hand and schedules & dispatches the nearest Crew to provide faster service to the consumers. This system not only enhances the service level but also completely tracks the allocation of workforce.  |

# Annexure XIII - List of Parameters arrived through calculation or formulae with list of documents as source of data

Ideally, reduction of technical losses should be the parameter for evaluation of performance of Discom's 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.

| Parameter             | Formula  | Data Source |
|-----------------------|--|-------------|
| AT&C Losses %         | {1 - (Billing Efficiency X Collection Efficiency)} X 100             | Commercial  |
| T&D Losses %          | {1- (Total energy Billed/ Total energy Input in the system)} x 100   | Commercial  |
| Billing Efficiency    | Total Energy Billed to Consumers (kWh) / Total Energy Input<br>(kWh) | Commercial  |
| Collection Efficiency | Revenue Collected (In Rupees)/ Billed Amount (In Rupees)             | Commercial  |

#### Table 50: Formulas used to derive the parameters

# **Annexure XIV - Detailed Formats**

|     | Gen                                | eral Information         |                       |                |
|-----|------------------------------------|--------------------------|-----------------------|----------------|
| 1   | Name of the DISCOM                 | TATA POWER DEL           | .HI DISTRIBUTION LI   | MITED          |
| 2   | i) Year of Establishment           |                          | 2002-03               |                |
|     | ii) Government/Public/Private      | Joint venture between De | elhi Government and T | ATA Power      |
| 3   | DISCOM's Contact details & Address |                          |                       |                |
| i   | City/Town/Village                  |                          | New Delhi             |                |
| ii  | District                           |                          | Delhi                 |                |
| iii | State                              | Delhi                    | Pin                   | 110009         |
| iv  | Telephone                          | 011-66112202             | Fax                   | 011-27468042   |
| 4   | Registered Office                  |                          |                       |                |
| i   | Company's Chief Executive Name     | Mr. C                    | Gajanan S. Kale       |                |
| ii  | Designation                        |                          | CEO                   |                |
| iii | Address                            | NDPL House, Hudson       | Lines, Kingsway Cam   | p, Delhi-09    |
| iv  | City/Town/Village                  | Delhi                    | Р.О.                  | GTB Nagar      |
| v   | District                           | (                        | Civil Lines           |                |
| vi  | State                              | Delhi                    | Pin                   | 110009         |
| vii | Telephone                          | 011-66112202             | Fax                   | 011-27468042   |
| 5   | Nodal Officer Details*             |                          |                       |                |
| :   | Nodal Officer Name (Designated at  | Ma                       | UC Sharma             |                |
| 1   | DISCOM's)                          | IVII                     | . ITC Shailia         |                |
| ii  | Designation                        | Gen                      | eral Manager          |                |
| iii | Address                            | NDPL House, Hudson       | Lines, Kingsway Cam   | p, Delhi-09    |
| iv  | City/Town/Village                  | Delhi                    | P.O.                  | GTB Nagar      |
| v   | District                           | (                        | Civil Lines           |                |
| vi  | State                              | Delhi                    | Pin                   | 110009         |
| vii | Telephone                          | 91-1166050595            | Fax                   |                |
| 6   | Energy Manager Details*            |                          |                       |                |
| i   | Name                               | Mr D                     | avinder Bhatia        |                |
| ii  | Designation                        | DGM                      | Whether EA or EM      | EM             |
| iii | EA/EM Registration No.             |                          | EA-7419               | _              |
| iv  | Telephone                          |                          | Fax                   |                |
| v   | Mobile                             | 9599819561 E-mail ID     | davinder.bhatia@tat   | apower-ddl.com |
| 7   | Period of Information              |                          |                       |                |
|     | Year of (FY) information including | 1st April 2              | 1023 - 31 et Mar 2024 |                |
|     | Date and Month (Start & End)       |                          | .025 - 515t Mar 2024  |                |

|       | Performance Summary of Electricity Distri   | bution Companies |                    |
|-------|---|------------------|--------------------|
| 1     | Period of Information<br>Year of (FY) information including Date and Month (Start & End)            | 1st April 20     | 23 - 31st Mar 2024 |
| 2     | Technical Details   |                  |                    |
| (a)   | Energy Input Details  |                  |                    |
| (i)   | Input Energy Purchase<br>(From Generation Source)   | Million kwh      | 12686.10           |
| (ii)  | Net input energy (at DISCOM Periphery after adjusting the<br>transmission losses and energy traded) | Million kwh      | 10660.43           |
| (iii) | Total Energy billed (is the Net energy billed, adjusted for energy traded))                         | Million kwh      | 10028.15           |
| (b)   | Transmission and Distribution (T&D) loss Details  | Million kwh      | 632.28             |
| (0)   |   | %                | 5.93%              |
|       | Collection Efficiency   | %                | 100.01%            |
| (c)   | Aggregate Technical & Commercial Loss   | %                | 5.92%              |

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 Authorised Signator Name of Authorised Signator Name of the DISCOM:90299 Full Address: Chief-TS, PM, PSC, Quality & Sustainability, RD & Collaboration Tata Power Delhi Distribution Limited

Seal

HARIOM SHARMA E. Code : 90231 AGM- Energy Audit Group Tata Power Delhi Distribution Limited Signature:-Name of AEA\*: **Registration Number:** 

Davinder Bhatia

EA-7419

al

Pushpendra Kumar E. Code : 94669 HoD- Energy Audit Group Tata Power Delhi Distribution Limited

|      |             |              |          |                                    |                             |                  |                  | Detail      | s of Divis       | ion Wise L | osses (See                 | e note bel     | ow**)       |                      |                 |                         |             |          |          |                          |                          |                   |                   |
|------|-------------|--------------|----------|------------------------------------|-----------------------------|------------------|------------------|-------------|------------------|------------|----------------------------|----------------|-------------|----------------------|-----------------|-------------------------|-------------|----------|----------|--------------------------|--------------------------|-------------------|-------------------|
|      |             |              |          |                                    |                             |                  |                  |             |                  | Division V | Vise Losses<br>Period: 1st | April 2023 - 3 | 1st Mar 202 | 4                    |                 |                         |             |          |          |                          |                          |                   |                   |
|      |             |              |          |                                    |                             |                  | Consumer profile |             |                  |            |                            |                |             | -                    | Energy parar    | neters                  |             | Lo       | osses    | Com                      | mercial Parar            | neter             |                   |
| C. N | Name of     | Circle and a | Name of  |                                    | No 6                        |                  | Tatal Number     | 0/ - f      | Connected        | Connected  | Total                      | N/ -5          |             |                      | Billed energy ( | MU)                     | -           |          |          | Dillad                   | Collected                |                   | AT 0 C            |
| S.NO | circle      | Circle code  | Division | Consumer category                  | No of connection<br>metered | No of connection | of connections   | of number   | Load             | Load       | Connected                  | % of connected | Input       | Metered              | Unmetered/a     |                         | % of energy | T&D loss | T&D loss | Amount in                | Amount in                | Collection        | AT & Closs<br>(%) |
|      |             |              |          |                                    | (Nos)                       | (Nos)            | (Nos)            | connections | metered          | Un-metered | Load                       | load           | energy      | energy               | ssessment       | Total energy            | consumption | (MU)     | (%)      | Rs. Crore                | Rs. Crore                | Efficiency        | (/                |
|      |             |              |          | Decidential                        | 112007                      | -                | 442007           | 0.20/       | (000)            | (10100)    | 102.204                    | 4.40/          | (1410)      | 262,2000             | energy          | 262 2007520             | 400/        |          |          | 467 442700               | 467 44220                | 400.00%           |                   |
|      |             |              |          | Agricultural                       | 460                         | 0                | 460              | 0%          | 3.833            |            | 3.833                      | 1%             |             | 263.2898             | 0               | 2.066700591             | 40%         |          |          | 1.42359449               | 1.46089554               | 100.02%           |                   |
| 1    | Badli       |              |          | Commercial/Industrial-LT           | 22000                       | 0                | 22000            | 16%         | 216.637          |            | 216.637                    | 50%            | 720.5697    | 348.9067             | 0               | 348.9067415             | 53%         | 57.05436 | 8%       | 550.654372               | 549.177532               | 99.73%            |                   |
|      |             |              |          | Commercial/Industrial-HT           | 51                          | 0                | 51               | 0%          | 14.17            |            | 14.17                      | 3%             |             | 23.58742             | 0               | 23.587421               | 4%          |          |          | 35.7693022               | 37.7795004               | 105.62%           |                   |
|      | Sub to      | tal          |          | Others                             | 622                         | 0                | 622              | 0%          | 7.963            | 0          | 7.963                      | 2%             | 720 5607    | 25.66469             | 0               | 25.66468811             | 4%          | 57.05426 | 89/      | 25.1920694               | 18.9378815               | 75.17%            | 0%                |
|      | 305-10      | rtai         |          | Residential                        | 73415                       | 0                | 73415            | 75%         | 122,669          | 0          | 122.669                    | 17%            | /20.309/    | 166.9503             | 0               | 166.950317              | 100%        | 57.05450 | 670      | 103.951921               | 104.141435               | 100.18%           | 970               |
|      |             |              |          | Agricultural                       | 1714                        | 0                | 1714             | 2%          | 10.426           | 0          | 10.426                     | 1%             |             | 3.427664             | 0               | 3.427664284             | 0%          | 1        |          | 3.30480874               | 3.40935658               | 103.16%           |                   |
| 2    | Bawana      |              |          | Commercial/Industrial-LT           | 22456                       | 0                | 22456            | 23%         | 586.585          | 0          | 586.585                    | 80%            | 1466.371    | 1131.609             | 0               | 1131.608509             | 84%         | 113.8633 | 8%       | 1696.96578               | 1697.44778               | 100.03%           |                   |
|      |             |              |          | Commercial/Industrial-HT           | 35                          | 0                | 35               | 0%          | 8.692            | 0          | 8.692                      | 1%             |             | 18.90681             | 0               | 18.906807               | 1%          | -        |          | 27.0448571               | 28.0244294               | 103.62%           |                   |
|      | Sub-to      | tal          |          | Others                             | 98025                       | 0                | 98025            | 100%        | 9.378            | 0          | 9.378<br>737 75            | 100%           | 1466 371    | 1352 508             | 0               | 31.014081               | 2%          | 113 8633 | 8%       | 1866 42704               | 1868 62116               | 101.25%           | 8%                |
|      |             |              |          | Residential                        | 113495                      | 0                | 113495           | 82%         | 312.08           | 0          | 312.08                     | 56%            | 1400.371    | 410.0911             | 0               | 410.0910876             | 47%         | 113.0033 | 070      | 313.119436               | 314.022995               | 100.12%           | 0/0               |
|      |             |              |          | Agricultural                       | 0                           | 0                | 0                | 0%          | 0                | 0          | 0                          | 0%             |             | 0                    | 0               | 0                       | 0%          |          |          | 0                        | 0                        | 0.00%             |                   |
| 3    | Civil lines |              |          | Commercial/Industrial-LT           | 24475                       | 0                | 24475            | 18%         | 109.902          | 0          | 109.902                    | 20%            | 890.2493    | 133.5539             | 0               | 133.5539459             | 15%         | 19.03644 | 2%       | 221.707537               | 222.546235               | 100.38%           |                   |
|      |             |              |          | Commercial/Industrial-HT           | 71                          | 0                | /1               | 0%          | 55./56<br>76.466 | 0          | 76.466                     | 10%            |             | 90.84456             | 0               | 90.844562               | 10%         | -        |          | 143.606233               | 143.613131               | 98 55%            |                   |
|      | Sub-to      | tal          |          | otiers                             | 138971                      | 0                | 138971           | 100%        | 554.204          | 0          | 554.204                    | 100%           | 890.2493    | 871.2129             | 0               | 871.212912              | 100%        | 19.03644 | 2%       | 921.776514               | 919.99581                | 99.81%            | 2%                |
|      |             |              |          | Residential                        | 124676                      | 0                | 124676           | 81%         | 297.127          | 0          | 297.127                    | 50%            |             | 379.3759             | 0               | 379.3758737             | 46%         |          |          | 266.867382               | 268.969742               | 100.79%           |                   |
|      |             |              |          | Agricultural                       |                             | 0                | 0                | 0%          | 0                | 0          | 0                          | 0%             |             | 0                    | 0               | 0                       | 0%          |          | 50/      | 0                        | 0                        | 0.00%             |                   |
| 4    | kesnavpuran |              |          | Commercial/Industrial-LT           | 27677                       | 0                | 27677            | 18%         | 237.285          | 0          | 237.285                    | 40%            | 873.9449    | 359.3328             | 0               | 359.3327789             | 43%         | 41.28856 | 5%       | 559.845251               | 561.872209               | 100.36%           |                   |
|      |             |              |          | Others                             | 609                         | 0                | 609              | 0%          | 22.676           | 0          | 22.676                     | 4%             |             | 21.62376             | 0               | 21.623758               | 3%          |          |          | 21.9346931               | 22.2970036               | 101.65%           |                   |
|      | Sub-to      | tal          |          |                                    | 153063                      | 0                | 153063           | 100%        | 591.262          | 0          | 591.262                    | 100%           | 873.9449    | 832.6564             | 0               | 832.6563527             | 100%        | 41.28856 | 5%       | 947.807263               | 951.902558               | 100.43%           | 4%                |
|      |             |              |          | Residential                        | 145627                      | 0                | 145627           | 89%         | 218.094          | 0          | 218.094                    | 74%            |             | 312.5652             | 0               | 312.5652374             | 78%         |          |          | 177.121538               | 177.587838               | 100.26%           |                   |
| 6    | Kirari      |              |          | Agricultural                       | 61                          | 0                | 61               | 0%          | 0.341            | 0          | 0.341                      | 0%             | 116 9916    | 0.184299             | 0               | 0.18429933              | 0%          | 46 58000 | 10%      | 0.12291599               | 0.12225624               | 99.46%            |                   |
|      | Kirdi i     |              |          | Commercial/Industrial-LT           | 8                           | 0                | 8                | 0%          | 3.251            | 0          | 3.251                      | 18%            | 440.8840    | 4.824355             | 0               | 4.824355                | 1%          | 40.58005 | 1076     | 8.94336859               | 8.90030475               | 99.52%            |                   |
|      |             |              |          | Others                             | 431                         | 0                | 431              | 0%          | 18.742           | 0          | 18.742                     | 6%             |             | 15.98738             | 0               | 15.987381               | 4%          |          |          | 23.684907                | 30.9830922               | 130.81%           |                   |
|      | Sub-to      | tal          |          |                                    | 162899                      | 0                | 162899           | 100%        | 293.336          | 0          | 293.336                    | 100%           | 446.8846    | 400.3045             | 0               | 400.3045368             | 100%        | 46.58009 | 10%      | 319.034105               | 326.808277               | 102.44%           | 8%                |
|      |             |              |          | Residential                        | 199587                      | 0                | 199587           | 89%         | 336.853          | 0          | 336.853                    | 73%            |             | 475.5652             | 0               | 475.5651506             | 72%         | -        |          | 281.73718                | 281.77866                | 100.01%           |                   |
| 6    | Mangolpuri  |              |          | Commercial/Industrial-LT           | 23389                       | 0                | 23389            | 10%         | 105.768          | 0          | 105.768                    | 23%            | 695.5794    | 140.7071             | 0               | 140.7071312             | 21%         | 39.34943 | 6%       | 221.965222               | 222.069275               | 100.05%           |                   |
|      |             |              |          | Commercial/Industrial-HT           | 23                          | 0                | 23               | 0%          | 9.211            | 0          | 9.211                      | 2%             |             | 22.39497             | 0               | 22.394973               | 3%          |          |          | 30.0959129               | 29.9294271               | 99.45%            |                   |
|      |             |              |          | Others                             | 652                         | 0                | 652              | 0%          | 7.441            | 0          | 7.441                      | 2%             |             | 17.56267             | 0               | 17.56266885             | 3%          |          |          | 21.8290427               | 22.2896565               | 102.11%           |                   |
| _    | Sub-to      | otal         |          | Desidential                        | 223651                      | 0                | 223651           | 100%        | 459.273          | 0          | 459.273                    | 100%           | 695.5794    | 656.2299             | 0               | 656.2299237             | 100%        | 39.34943 | 6%       | 555.627358               | 556.067019               | 100.08%           | 6%                |
|      |             |              |          | Agricultural                       | 3                           | 0                | 3                | 87%         | 0.007            | 0          | 0.007                      | 0%             |             | 470.3345             | 0               | 0.006661                | 0%          | -        |          | 0.00326479               | 0.00323449               | 99.07%            |                   |
| 7    | Model town  |              |          | Commercial/Industrial-LT           | 22240                       | 0                | 22240            | 13%         | 110.955          | 0          | 110.955                    | 21%            | 749.4413    | 132.3014             | 0               | 132.3014374             | 19%         | 40.26722 | 5%       | 218.387891               | 218.195745               | 99.91%            |                   |
|      |             |              |          | Commercial/Industrial-HT           | 46                          | 0                | 46               | 0%          | 15.832           | 0          | 15.832                     | 3%             |             | 25.7113              | 0               | 25.7113                 | 4%          |          |          | 41.9144451               | 42.0604796               | 100.35%           |                   |
|      | Cubar       | 4            |          | Others                             | 820                         | 0                | 820              | 0%          | 47.739           | 0          | 47.739                     | 9%             |             | 80.82018             | 0               | 80.82017827             | 11%         |          |          | 90.6175386               | 90.2698308               | 99.62%            |                   |
|      | Sub-to      | ILdi         |          | Residential                        | 1/46/2                      | 0                | 1/46/2           | 100%        | 324 364          | 0          | 324 364                    | 53%            | 749.4413    | /09.1/41             | 0               | /09.1/4104              | 100%        | 40.26722 | 5%       | <b>687.691219</b>        | <b>687.325644</b>        | 99.95%<br>100.06% | 5%                |
|      |             |              |          | Agricultural                       | 0                           | 0                | 0                | 0%          | 0                | 0          | 0                          | 0%             |             | 0                    | 0               | 0                       | 0%          |          |          | 0                        | -3.751E-09               | 0.00%             |                   |
| 8    | Moti nagar  |              |          | Commercial/Industrial-LT           | 28466                       | 0                | 28466            | 19%         | 225.981          | 0          | 225.981                    | 37%            | 831.6149    | 282.2775             | 0               | 282.2775235             | 36%         | 43.21673 | 5%       | 472.827361               | 471.306203               | 99.68%            |                   |
|      |             |              |          | Commercial/Industrial-HT           | 117                         | 0                | 117              | 0%          | 50.571           | 0          | 50.571                     | 8%             |             | 81.8704              | 0               | 81.870396               | 10%         |          |          | 125.407683               | 125.427206               | 100.02%           |                   |
|      | Sub-to      | ital         |          | Others                             | 150403                      | 0                | 150403           | 1%          | 10.311           | 0          | 10.311                     | 2%             | 831 6149    | 15.75632<br>788 3982 | 0               | 15./5632<br>788 3982167 | 2%          | 43 21673 | 5%       | 20.0144531<br>919.464275 | 19.5110413<br>917 632623 | 97.48%            | 5%                |
|      | 54.5-10     |              |          | Residential                        | 123246                      | 0                | 123246           | 84%         | 206.436          | 0          | 206.436                    | 32%            | 031.0143    | 290.0383             | 0               | 290.0383096             | 25%         | .5.210/3 | 570      | 181.884423               | 182.189332               | 100.17%           | 370               |
|      |             |              |          | Agricultural                       | 2161                        | 0                | 2161             | 1%          | 18.764           | 0          | 18.764                     | 3%             |             | 9.195373             | 0               | 9.195372728             | 1%          | 1        |          | 6.59642428               | 6.73561942               | 102.11%           |                   |
| 9    | Narela      |              |          | Commercial/Industrial-LT           | 19388                       | 0                | 19388            | 13%         | 370.193          | 0          | 370.193                    | 57%            | 1274.314    | 751.3653             | 0               | 751.3653327             | 64%         | 97.77485 | 8%       | 1095.33334               | 1094.52831               | 99.93%            |                   |
|      |             |              |          | Commercial/Industrial-HT<br>Others | 141                         | 0                | 141              | 0%          | 36.544           | 0          | 36.544                     | 6%             |             | 97.53881             | 0               | 97.538811               | 8%          |          |          | 37 900613                | 132.793369               | 98.54%            |                   |
|      | Sub-to      | tal          |          | Jours                              | 145876                      | 0                | 145876           | 100%        | 648.216          | 0          | 648.216                    | 100%           | 1274.314    | 1176.539             | 0               | 1176.539374             | 100%        | 97.77485 | 8%       | 1456.47298               | 1454.21748               | 99.85%            | 8%                |
|      |             |              |          | Residential                        | 105988                      | 0                | 105988           | 85%         | 372.306          | 0          | 372.306                    | 71%            |             | 419.5878             | 0               | 419.5878021             | 67%         |          |          | 333.597548               | 333.431231               | 99.95%            |                   |
|      |             |              |          | Agricultural                       | 0                           | 0                | 0                | 0%          | 0                | 0          | 0                          | 0%             |             | 0                    | 0               | 0                       | 0%          |          |          | 0                        | 0                        | 0.00%             |                   |
| 10   | Pitam pura  |              |          | Commercial/Industrial-LT           | 17368                       | 0                | 17368            | 14%         | 36 520           | 0          | 36 520                     | 21%            | 662.4167    | 137.1278             | 0               | 137.1277874             | 22%         | 33.34023 | 5%       | 225.084004               | 224.490834               | 99.74%            |                   |
|      |             |              |          | Others                             | 587                         | 0                | 587              | 0%          | 7.185            | 0          | 7.185                      | 1%             |             | 12,9019              | 0               | 12,90190121             | 2%          |          |          | 14.1470018               | 14.3422711               | 101.38%           |                   |
|      | Sub-to      | tal          |          | -                                  | 124019                      | 0                | 124019           | 100%        | 527.71           | 0          | 527.71                     | 100%           | 662.4167    | 629.0764             | 0               | 629.0764297             | 100%        | 33.34023 | 5%       | 660.946594               | 660.271088               | 99.90%            | 5%                |
|      |             |              |          | Residential                        | 210495                      | 0                | 210495           | 87%         | 571.32           | 0          | 571.32                     | 71%            |             | 713.7429             | 0               | 713.742923              | 65%         |          |          | 510.761037               | 510.935853               | 100.03%           |                   |
| 11   | Robini      |              |          | Agricultural                       | 0                           | 0                | 0                | 0%          | 122.606          | 0          | 0                          | 0%             | 1152 022    | 0                    | 0               | 0                       | 0%          | 50 52071 | 10/      | 0                        | 0                        | 0.00%             |                   |
|      | Nomin       |              |          | Commercial/Industrial-HT           | 68                          | 0                | 68               | 0%          | 48.151           | 0          | 48.151                     | 6%             | 1155.552    | 92.44927             | 0               | 92.449267               | 8%          | 50.55071 |          | 134.617525               | 134.63242                | 100.03%           |                   |
|      |             |              |          | Others                             | 1031                        | 0                | 1031             | 0%          | 57.862           | 0          | 57.862                     | 7%             |             | 142.9185             | 0               | 142.9185384             | 13%         |          |          | 152.122166               | 153.603866               | 100.97%           |                   |
|      | Sub-to      | ital         |          |                                    | 242466                      | 0                | 242466           | 100%        | 810.029          | 0          | 810.029                    | 100%           | 1153.932    | 1103.401             | 0               | 1103.400992             | 100%        | 50.53071 | 4%       | 1048.22603               | 1049.96514               | 100.17%           | 4%                |

|  | Residential  | 246383  | 0   | 246383  | 90%   | 442.626   | 0   | 442.626   | 74%   |                            | 615.8139  | 0   | 615.8139092   | 73%   |                       |                            | 385.546755  | 384.295374  | 99.68%  |      |
|--|--|---|---|---|---|---|---|---|---|----------------------------|---|---|---|---|-----------------------|----------------------------|---|---|---|------|
|  | Agricultural   | 67  | 0   | 67  | 0%  | 0.448   | 0   | 0.448   | 0%  |                            | 0.460784  | 0   | 0.460784  | 0%  |                       |                            | 0.22265061  | 0.21851453  | 98.14%  |      |
| 12 halimar bag   | Commercial/Industrial-LT   | 27609   | 0   | 27609   | 10%   | 107.82  | 0   | 107.82  | 18%   | 895.115                    | 141.6888  | 0   | 141.6888403   | 17%   | 49.98175              | 6%                         | 227.560841  | 227.109035  | 99.80%  |      |
|  | Commercial/Industrial-HT   | 65  | 0   | 65  | 0%  | 29.605  | 0   | 29.605  | 5%  |                            | 66.24835  | 0   | 66.248348   | 8%  |                       |                            | 90.5282566  | 90.0811664  | 99.51%  |      |
|  | Others   | 815   | 0   | 815   | 0%  | 18.059  | 0   | 18.059  | 3%  |                            | 20.92136  | 0   | 20.92135565   | 2%  |                       |                            | 26.495175   | 26.4901913  | 99.98%  |      |
| Sub-total  |  | 274939  | 0   | 274939  | 100%  | 598.558   | 0   | 598.558   | 100%  | 895.115                    | 845.1332  | 0   | 845.1332372   | 100%  | 49.98175              | 6%                         | 730.353679  | 728.194281  | 99.70%  | 6%   |
|  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 13   | Commercial/Industrial-LT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 14   | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       | 0%                         | 0   | 0   | 0.00%   |      |
| 14   | Commercial/Industrial-LI   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  |                       | 0%                         | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  | Others   | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
| Sub-total  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  |                       | 0/8                        | 0   | 0   | 0.00%   | 100% |
|  | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 15   | Commercial/Industrial-IT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | -                          | 0   | 0   | 0   | 0%  | -                     |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 16   | Commercial/Industrial-LT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 17   | Commercial/Industrial-LT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 19   | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       | 0%                         | 0   | 0   | 0.00%   |      |
| 18   | Commercial/Industrial-LI   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Othors   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  | Others   | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
| Sub-total  | Residential  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | U%                         | 0   | 0   | 0.00%   | 100% |
|  | Agricultural   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| 19   | Commercial/Industrial-IT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | 0                          | 0   | 0   | 0   | 0%  | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  | -                          | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | 0%  | 0   | 0   | 0   | 0%  |                            | 0   | 0   | 0   | 0%  |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   |                            | 0   | 0   | 0   | #DIV/0!   |                       |                            | 0   | 0   | 0.00%   |      |
|  | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   |                            | 0   | 0   | 0   | #DIV/0!   |                       |                            | 0   | 0   | 0.00%   |      |
| 20   | Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   | 0                          | 0   | 0   | 0   | #DIV/0!   | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Commercial/Industrial-HT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   |                            | 0   | 0   | 0   | #DIV/0!   |                       |                            | 0   | 0   | 0.00%   |      |
|  | Others   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   |                            | 0   | 0   | 0   | #DIV/0!   |                       |                            | 0   | 0   | 0.00%   |      |
| Sub-total  |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%  | 0                          | 0   | 0   | 0   | 100%  | 0                     | 0%                         | 0   | 0   | 0.00%   | 100% |
|  | Residential  | 0   |   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV//01  |                            | 0   | -   | 0   |   |                       |                            |   | 0   | 0.00%   |      |
|  |  | 0   | 0   | 0   | #010/0:   | •   | •   | 0   | #DIV/0!   |                            | 0   | 0   | U   | #DIV/0!   |                       |                            | 0   | , v   |   |      |
| 21   | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!   |                            | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!  |                       |                            | 0   | 0   | 0.00%   |      |
|  | Agricultural<br>Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!  | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!  | 0                          | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0                     | 0%                         | 0   | 0   | 0.00%   |      |
|  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0   | 0<br>0<br>0   | 0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0                          | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0                     | 0%                         | 0   | 0<br>0<br>0   | 0.00%   |      |
|  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0                          | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0                     | 0%                         | 0<br>0<br>0<br>0  |   | 0.00%<br>0.00%<br>0.00%   |      |
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| Sub-total  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0                | 0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial_LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br><b>100%</b><br>#DIV/0!<br>#DIV/0!   | 0<br>0                | 0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0                | 0%<br><b>0%</b>            | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br><b>100%</b><br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0                | 0%<br><b>0%</b>            | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0                     | 0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| 22 Sub-total   | Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others Residential Residential  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0           | 0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 22 Sub-total Sub-total   | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0           | 0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| 22<br>Sub-total<br>23  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-HT   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0           | 0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 22<br>Sub-total<br>23  | Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-LT Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0           | 0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 22 Sub-total 23  | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0      | 0% 0% 0% 0%                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total       22       Sub-total       23       Sub-total                              | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0      | 0%<br>0%<br>0%<br>0%       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%                                     | 100% |
| Sub-total       22       Sub-total       23       Sub-total                              | Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-HT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Residential  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0      | 0%<br>0%<br>0%<br>0%       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%                            | 100% |
| Sub-total       22       Sub-total       23       Sub-total                              | Agricultural Commercial/Industrial-LT Commercial/Industrial-LT Others Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-LT Commercial/Industrial-LT Others Residential Agricultural Residential Agricultural Residential Agricultural  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 | 0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0      | 0%<br>0%<br>0%<br>0%       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%                   | 100% |
| Sub-total           22           Sub-total           23           Sub-total           24 | Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others  Residential Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others  Residential Agricultural Commercial/Industrial-HT Others  Residential Agricultural Commercial/Industrial-HT Others  Residential Agricultural Commercial/Industrial-HT Others   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0 | 0%<br>0%<br>0%<br>0%<br>0% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%          | 100% |
| Sub-total           22           Sub-total           23           Sub-total           24 | Agricultural       Commercial/Industrial-LT       Commercial/Industrial-HT       Others       Residential       Agricultural       Commercial/Industrial-LT       Commercial/Industrial-LT       Commercial/Industrial-HT       Others       Residential       Agricultural       Commercial/Industrial-HT       Others       Residential       Agricultural       Commercial/Industrial-HT       Others       Residential       Agricultural       Commercial/Industrial-HT       Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 | 0<br>0<br>0<br>0<br>0 | 0%<br>0%<br>0%<br>0%<br>0% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%          | 100% |
| Sub-total       22       Sub-total       23       Sub-total       24                     | Agricultural         Commercial/Industrial-LT         Commercial/Industrial-HT         Others         Residential         Agricultural         Commercial/Industrial-LT         Commercial/Industrial-LT         Commercial/Industrial-LT         Commercial/Industrial-LT         Commercial/Industrial-LT         Commercial/Industrial-HT         Others         Residential         Agricultural         Commercial/Industrial-HT         Others         Residential         Agricultural         Commercial/Industrial-HT         Others         Commercial/Industrial-HT         Others         Commercial/Industrial-LT         Commercial/Industrial-LT         Commercial/Industrial-LT         Others         Others | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 | 0<br>0<br>0<br>0<br>0 | 0%<br>0%<br>0%<br>0%<br>0% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00% | 100% |

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|---|--|---|---|---|---|---|---|---|--|--|---|---|---|---|---|--|---|---|---|------|
|   | Residential  | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| 103   | Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  | 0  | 0   | 0   | 0   | #DIV/0!   | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
|   | Commercial/Industrial-HT   | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  |  | 0   | 0   | 0   | #DIV/01   |   |  | 0   | 0   | 0.00%   |      |
|   | Others   | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  |  | 0   | 0   | 0   | #DIV/01   |   |  | 0   | 0   | 0.00%   |      |
| Sub total   | otilers  | 0   | 0   | 0   | #010/0:   | 0   | 0   | 0   | #010/0:  | •  | 0   | 0   | 0   | #DIV/0:   | -   | 0%                                     | 0   |   | 0.00%   | 400% |
| Sub-total   |  | U   | U   | U   | 100%  | U   | U   | U   | 100%   | U  | U   | U   | U   | 100%  | U   | 0%                                     | U   |   | 0.00%   | 100% |
|   | Residential  | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| 104   | Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  | 0  | 0   | 0   | 0   | #DIV/0!   | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
|   | Commercial/Industrial-HT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Others   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| Sub-total   |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%   | 0  | 0   | 0   | 0   | 100%  | 0   | 0%                                     | 0   | 0   | 0.00%   | 100% |
|   | Residential  | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  |  | 0   | 0   | 0   | #DIV/01   |   |  | 0   | 0   | 0.00%   |      |
|   | Agricultural   | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  |  | 0   | 0   | 0   | #DIV/01   |   |  | 0   | 0   | 0.00%   |      |
| 105   | Commercial/Industrial LT   | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  | 0  | 0   | 0   | 0   | #DIV/01   | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
| 105   | Commercial/Industrial LIT  | 0   | 0   | 0   | #DIV/01   | 0   | 0   | 0   | #DIV/01  | Ū  | 0   | 0   | 0   | #DIV/01   | Ű   | 0,0                                    | 0   | -   | 0.00%   |      |
|   | commercialy industrial-ITT   | 0   | 0   | 0   | #DIV/0:   | 0   | 0   | 0   | #DIV/0:  |  | 0   | 0   | 0   | #DIV/0:   |   |  | 0   | 0   | 0.00%   |      |
| Cub tatal   | Others   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | U   | 0   | #DIV/U!   |   |  | 0   |   | 0.00%   |      |
| Sub-total   |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%   | 0  | 0   | 0   | 0   | 100%  | 0   | 0%                                     | 0   | 0   | 0.00%   | 100% |
|   | Residential  | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| 106   | Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  | 0  | 0   | 0   | 0   | #DIV/0!   | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
|   | Commercial/Industrial-HT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Others   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| Sub-total   |  | 0   | 0   | 0   | 100%  | 0   | 0   | 0   | 100%   | 0  | 0   | 0   | 0   | 100%  | 0   | 0%                                     | 0   | 0   | 0.00%   | 100% |
|   | Residential  | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
|   | Agricultural   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  |  | 0   | 0   | 0   | #DIV/0!   |   |  | 0   | 0   | 0.00%   |      |
| 407   |  |   |   |   |   |   |   |   |  |  |   | -   |   |   | -   |  |   | · · · · · · · · · · · · · · · · · · ·   |   |      |
| 107   | Commercial/Industrial-LT   | 0   | 0   | 0   | #DIV/0!   | 0   | 0   | 0   | #DIV/0!  | 0  | 0   | 0   | 0   | #DIV/0!   | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
| 107   | Commercial/Industrial-LT<br>Commercial/Industrial-HT   | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!  | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!   | 0  | 0   | 0   | 0   | #DIV/0!<br>#DIV/0!  | 0   | 0%                                     | 0   | 0   | 0.00%   |      |
| 107   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others   | 0<br>0<br>0   | 0<br>0<br>0   | 0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0   | 0<br>0<br>0   | 0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0  | 0   | 0   | 0 0 0 0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0   | 0%                                     | 0 0 0 0   | 0   | 0.00%   |      |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%  | 0  | 0 0 0 0 0   | 0 0 0 0 0   | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%   | 0   | 0%                                     | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0.00% 0.00% 0.00% 0.00%   | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential  | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!   | 0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!  | 0   | 0%                                     | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0  | 0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Aericultural  | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!  | 0  | 0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!   | 0   | 0%                                     | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0  | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0  | 0%<br>0%                               | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0  | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total           108   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0  | 0%<br>0%                               | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0  | 0%<br>0%                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0   | 0%<br>0%<br>0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%  | 0<br>0<br>0   | 0%<br>0%<br>0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| 107<br>Sub-total<br>108<br>Sub-total  | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!  | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01   | 0<br>0<br>0   | 0%<br>0%<br>0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total Sub-total   | Commercial/Industrial-HT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0   | 0%<br>0%<br>0%                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total           108           Sub-total           109   | Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-HT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | #DIV/0!<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0  | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total           108           Sub-total           109   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0   | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total           108           Sub-total           109   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0   | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107<br>Sub-total<br>108<br>Sub-total<br>109<br>Sub-total  | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%   | 0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%   | 0<br>0<br>0<br>0  | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107<br>Sub-total<br>108<br>Sub-total<br>109<br>Sub-total  | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/0!<br>#DIV/0!<br>#DIV/0!<br>100%<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!<br>#DIV/0!  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01  | 0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0<br>0  | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107         Sub-total           108         Sub-total           109         Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01  | 0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01   | 0<br>0<br>0<br>0  | 0%<br>0%<br>0%<br>0%                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| Sub-total           108           Sub-total           109           Sub-total           110   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01  | 0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0   | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total           108           Sub-total           109           Sub-total           110   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT  | 0             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01  | 0<br>0<br>0<br>0<br>0  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01   | 0<br>0<br>0<br>0  | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total           108           Sub-total           109           Sub-total           110   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT  | 0             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01           #DIV/01           100%           #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0   | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| 107<br>Sub-total<br>108<br>Sub-total<br>109<br>Sub-total<br>110<br>Sub-total  | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others   | 0             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0  | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107       Sub-total       108       Sub-total       109       Sub-total       110       Sub-total   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT  | 0                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/02  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01  | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%   | 100% |
| Sub-total           108   | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT  | 0           0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01            | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01           #DIV/01           100%           #DIV/01           #DIV/03   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01   | 0<br>0<br>0<br>0<br>0<br>0<br>0   | 0%<br>0%<br>0%<br>0%<br>0%             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107         Sub-total           108         Sub-total           109         Sub-total           110         Sub-total           110         Total | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others   | 0           0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>100%<br>#DIV/01<br>100%<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01                             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/03           #DIV/04           #DIV/05           #DIV/06           #DIV/07           #DIV/08           55%           0%           35%   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 <td< td=""><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>632.2837</td><td>0%<br/>0%<br/>0%<br/>0%<br/>0%<br/>0%</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%</td><td>100%</td></td<>   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>632.2837                             | 0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%  | 100% |
| 107         Sub-total           108         Sub-total           109         Sub-total           110         Sub-total           110         Total | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01           #DIV/01           100%           #DIV/01           #DIV/02           #DIV/03           #DIV/04           #DIV/05           \$5%           0%           35%   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>10660.43                        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 <td< td=""><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0%<br/>0%<br/>0%<br/>0%<br/>0%<br/>0%<br/>6%</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%</td><td>100%</td></td<> | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>6% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00% | 100% |
| 107         Sub-total           108         Sub-total           109         Sub-total           110         Sub-total           110         Total | Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Others<br>Residential<br>Agricultural<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT<br>Commercial/Industrial-LT | 0           0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01<br>#DIV/01                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01           #DIV/01           100%           #DIV/01           #DIV/02           #DIV/03           #DIV/04           #DIV/05           \$5%           \$5%           \$5%           \$5% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>10660.43                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | #DIV/01           #DIV/01 <td< td=""><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>632.2837</td><td>0%<br/>0%<br/>0%<br/>0%<br/>0%<br/>0%<br/>6%</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%<br/>0.00%</td><td>100%</td></td<>  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>632.2837                                       | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>6% | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00%<br>0.00% | 100% |

\*\* Note - It shall be mandatory to record the energy supplied separately for each category of consumers which is being provided a separate rate of subsidy in the tariff, by the state government, so that the subsidy due for the electricity distribution company is quarterly calculated by multiplying the energy supplied to each of such category of consumers by the applicable rate of subsidy notified by the state government.

| Colo<br>r<br>code | Parameter                       |
|-------------------|---------------------------------|
|                   | Please enter name of circle     |
|                   | Please enter circle code        |
| 0                 | Please enter numeric value or 0 |
|                   | Formula protected               |

1/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 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 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 of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or St person affected, I/we undertake to indemnify such loss. Male M Authorised Signatory and Seal

Name of Authorised Signatory:

Name of the DISCOM: Full Address:-

HARIOM SHARMA E. Code : 90231 AGM- Energy Audit Group Tata Power Delhi Distribution Limited

Signature:-Name of Energy Manager: Registration Number:

Davinder Bhatia EA7419

|                         |  |   |   | _                      | _            |        |  |  | Form-Input energy(L<br>A. Summar                   | etails of Input energy<br>y of energy input & Infras | tructure                               | )                                     | _  |                 |                                |                           | Period: 1st April               | -              |                            |                               |          |
|-------------------------|--|---|---|------------------------|--------------|--------|--|--|--|--|--|---------------------------------------|--|-----------------|--------------------------------|---------------------------|---------------------------------|----------------|----------------------------|-------------------------------|----------|
| S.No                    | Innut Fauren a   | hateri (MIII)   |   |                        |              |        |  |  | Parameters   |  |  |                                       |  |                 |                                |                           | 2023 - 31st Mar<br>2024         |                | Remarks (So<br>Power pure  | urce of data)                 |          |
| A.2<br>A.3              | Transmission loss<br>Transmission loss<br>Energy sold out            | (%)<br>(MU)<br>fe the nericibural**                                     | 0   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 4%<br>526.473144<br>1501 592117 |                | Power purch                | hase Invoice                  |          |
| A.5<br>A.6              | Open access sale (<br>EHT sale                                       | (MU)  | I narinhar- or at 1   | Vibution a visat 2 *** |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 85.865<br>208.938               |                | From Regu                  | latory data                   |          |
| A.7<br>A.8<br>A.9       | is 100% metering a   | available at 66/33 k<br>available at 11 kV (S                           | <ul> <li>Any other y of at dist<br/>V (Select yes or no from<br/>select yes or no from</li> </ul> | rom list)<br>(list)    |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 20742.30<br>Yes<br>Yes          |                |                            |                               |          |
| A.10<br>A.11<br>A.12    | % of metering ava<br>% of metering ava<br>No of feeders at 6         | mable at DT<br>illable at consumer e<br>i6kV voltage level              | end   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 70%<br>100%<br>142              |                | From Billin<br>GIS Da      | g data base<br>ta base        |          |
| A.13<br>A.14<br>A.15    | No of feeders at 3<br>No of feeders at 1<br>No of LT feeders k       | 13kV voltage level<br>11kV voltage level<br>evel                        |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 115<br>1312<br>17527            | Ŀ              | GIS Da<br>GIS Da<br>GIS Da | ta base<br>ta base<br>ta base | _        |
| A.16<br>A.17<br>A.18    | Line length (ckt. kr<br>Line length (ckt. kr<br>Line length (ckt. kr | m) at 66kV voltage le<br>m) at 33kV voltage le<br>m) at 11kV voltage le | evel<br>evel  |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 567<br>519.65<br>5363           | E              | GIS Da<br>GIS Da<br>GIS Da | ta base<br>ta base<br>ta base | _        |
| A.19<br>A.20<br>A.21    | Line length (km) at<br>Length of Aerial Bu<br>Length of Underer      | t LT level<br>unched Cables<br>round Cables                             |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           | 7809.1<br>5822<br>6571.7        | È              | GIS Da<br>GIS Da<br>GIS Da | ta base<br>ta base<br>ta base | _        |
| A.22                    | HT/LT ratio  | _   |   |                        |              |        |  |  | B. Meter read                                      | ing of Input energy at inje                          | ction points                           |                                       |  |                 |                                |                           | 0.825914638                     |                |                            |                               |          |
| SNo                     | Tome   | Circle  | Voltge  | Division               | Sub-Division | Feeder | Easter Name  | Feeder Metering Status<br>(Metered' unmetered/<br>AMI/AMR) | Status of Meter<br>(Functional/Non-<br>functional) | Metering Date<br>Date of last                        | Feeder Type<br>Agri/ Industrial/Mixed) | % data received                       | Status of Communication<br>Number of hours | Total Number of |                                | Period from               | sto                             |                | Sales                      | Remai                         | da       |
|                         |  |   | (KVA)   | (XVA)                  | (KVA)        | P      |  |  |  | reading/<br>communication                            |  | antomatically if<br>feeder<br>AMR/AMI | unable to<br>communicate in<br>period      | period          | Meter S.No                     | CT/PT ratio               | (MU)                            | Export<br>(MU) |                            | (Source of                    | data)    |
| 8.1<br>8.2<br>8.3       |  |   | 66<br>66<br>66  |                        |              |        | Narela T X 1<br>Narela T X 2<br>Narela T X 3                                 | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4864963<br>4865043<br>4865052  | 1000<br>1000<br>1000      | 302.25<br>329.70<br>195.80      |                |                            |                               |          |
| 8.4<br>8.5<br>8.6       |  |   | 11<br>66<br>66  |                        |              |        | LOCAL TR Narela<br>Railway Ckt-1<br>Railway Ckt-2                            | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902583<br>4864952<br>4865039  | 10<br>625<br>500          | -0.25<br>-31.79                 |                |                            |                               |          |
| 8.7<br>8.8              |  |   | 66<br>33  |                        |              |        | Gopal Pur T X 2<br>Gopal Pur T X 1   | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | 4864976<br>4902497<br>4954024  | 2000<br>1000              | 28.86<br>283.65                 |                |                            |                               |          |
| 8.10<br>8.11<br>8.12    |  |   | 11  |                        |              |        | LOCAL TR Gopalpur<br>T X 4 (160 MVA)   | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | 4865091<br>Q0491809<br>4903482 | 7.5                       | -0.18<br>328.14                 |                |                            |                               | -        |
| 8.13<br>8.14            |  |   | 220   |                        |              |        | Kasmeri Gate 220 KV D<br>Kasmeri Gate 33 KV Civ                              | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI                                   |  |                 | 5128479<br>4864791             | 1000 266.66               | 67.21<br>79.69<br>40.62         |                |                            |                               |          |
| 8.15<br>8.16<br>8.17    |  |   | 33<br>33  |                        |              |        | ISB1 K.Gate   F/o No.II<br>Kasmeri Gate 33 KV Civ<br>Kasmeri Gate 20 MVA 1   | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI<br>AMI                     |  |                 | 4865184<br>4864797             | 2000                      | 4.37<br>25.62<br>23.29          |                |                            |                               |          |
| 8.18<br>8.19<br>8.20    |  |   | 11<br>11<br>33  |                        |              |        | LOCAL TR K Gate<br>Kasmeri Gate BUS COU<br>O/G Payal Ckt Naraina             | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902585<br>4902585<br>4864836  | 7.5<br>400<br>1000        | -0.23<br>0.00<br>72.79          |                |                            |                               |          |
| 8.21<br>8.22<br>8.23    |  |   | 33<br>33<br>33  |                        |              |        | O/G REWARI UNE Nara<br>INDER PURI Ckt-1 Nara<br>33 kV 16 MVA TR-1 Nar        | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865182<br>4864865<br>4864880  | 4000<br>1000<br>500       | 59.43<br>60.81<br>27.74         |                |                            |                               |          |
| 8.24<br>8.25<br>8.26    |  |   | 33<br>11<br>11  |                        |              |        | 33 kV 16 MVA TR-2 Nar<br>Gopi Nath Bazaar (-ve)<br>LOCAL TR naraina          | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4864860<br>4902566<br>4902598  | 500<br>100<br>100         | 42.06<br>-12.25<br>-0.32        | -              |                            | -                             | -        |
| 8.27<br>8.28<br>8.29    |  |   | 33<br>33<br>33  |                        |              |        | INDER PURI Ckt-2 Nara<br>33KV Naraina Pandav N<br>Q/G 33 KV Rama Rood        | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865117<br>4864846<br>4865123  | 1333.33<br>1000<br>1250   | 81.74<br>53.56<br>15.13         |                |                            |                               | -        |
| 8.30<br>8.31<br>8.32    |  |   | 33<br>33<br>33  |                        |              |        | O/G 33 KV Shahzada B<br>O/G 33 KV Rampura-1                                  | Metered<br>Metered<br>Metered                              | Functional<br>Functional                           |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865152<br>5295199<br>4864814  | 1000<br>937.5<br>125      | 2.82<br>73.91<br>76.40          |                |                            |                               | -        |
| 8.33<br>8.34<br>9.37    |  |   | 11<br>33<br>22  |                        |              |        | BUS COUPLER Rohtak F<br>T X 3 Rohtak Road                                    | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI                                   |  |                 | 4902559<br>5128406             | 300 625                   | 0.19                            |                |                            |                               | <u> </u> |
| 8.36<br>8.37            |  |   | 33<br>33<br>66  |                        |              |        | T X 1 Shalimar Bagh<br>T X 2 Shalimar Bagh                                   | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | 4864930<br>4864917             | 1000<br>1000              | /s.70<br>296.09<br>238.50       |                |                            |                               |          |
| 6.58<br>8.39<br>8.40    |  |   | 220<br>11<br>33   |                        |              |        | LOCAL TR SMB<br>T X 3 Shalimar Bagh  | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed                         | AMI<br>AMI<br>AMI                     |  |                 | 4902494<br>4902561<br>4864922  | 1000<br>7.5<br>1000       | 17.70<br>-0.19<br>326.07        |                |                            |                               |          |
| 8.41<br>8.42<br>8.43    |  |   | 220<br>66<br>66   |                        |              |        | DMRC SMB RSS<br>T X 4 Shalimar Bagh<br>T X 1 Rohini 220 KV                   | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Moved<br>Mixed                         | AMI<br>AMI<br>AMI                     |  |                 | 4902484<br>40001535<br>4864964 | 500<br>1000<br>1000       | 19.90<br>0.00<br>306.18         |                |                            |                               |          |
| 8.44<br>8.45<br>8.46    |  |   | 66<br>66<br>66  |                        |              |        | T X 2 Rohini 220 KV<br>T X 3 Rohini 220 KV<br>T X 4 Rohini 220 KV            | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865016<br>4864997<br>4902498  | 1000<br>1000<br>1000      | 303.51<br>345.80<br>308.23      | L              |                            |                               | E        |
| 8.47<br>8.48<br>8.49    |  |   | 11<br>66<br>66  |                        |              |        | LOCAL TR Rohini<br>T X 1 Kanjawala<br>T X 2 Kanjawala                        | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902603<br>4865041<br>4902499  | 100<br>1000<br>1000       | -0.31<br>281.22<br>272.42       |                |                            |                               |          |
| 8.50<br>8.51<br>8.52    |  |   | 11<br>66<br>66  |                        |              |        | LOCAL TR Kanjawala<br>66 KV DMRC MUNDKA                                      | Metered<br>Metered<br>Metered                              | Functional<br>Functional                           |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865071<br>Y0357713<br>4864788 | 266.66<br>0.4<br>2000     | -0.30<br>-3.51                  |                |                            |                               |          |
| 8.53<br>8.54            |  |   | 33<br>33  |                        |              |        | T X 2 Subzimandi<br>O/G BG Rd-1 (To BSES)                                    | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | 4864896<br>4864899<br>4864899  | 2000<br>500               | 301.70<br>-65.92                |                |                            |                               | <u> </u> |
| 8.56<br>8.57            |  |   | 33<br>11  |                        |              |        | T X 1 Subzimandi<br>LOCAL TR Subzimandi                                      | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI                                   |  |                 | 4865012 4902604                | 1000                      | -51.52<br>194.03<br>-0.16       |                |                            |                               |          |
| 8.59<br>8.60            |  |   | 66<br>66  |                        |              |        | 66kV I/C No 1 Rohini-II<br>66kV I/C No 2 Rohini-II                           | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI<br>AMI                     |  |                 | 4804347<br>4864957<br>5128468  | 2500<br>2500<br>1000      | 294.55<br>295.38                |                |                            |                               | -        |
| 8.62<br>8.63            |  |   | 33  |                        |              |        | 33kV I/C No 1 Wazir pu<br>33kV I/C No 2 Wazir pu<br>33 KV Peeraearhi CKT b   | Metered<br>Metered<br>Metered                              | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | 4864903<br>4864946<br>4864901  | 1000                      | 360.73<br>308.78<br>66.05       |                |                            |                               | -        |
| 8.65<br>8.66            |  |   | 33<br>33<br>11  |                        |              |        | Sudarshan Park 33KV<br>PUSA Ckt-I<br>DCM Nuruddin Park B0                    | Metered<br>Metered<br>Metered                              | Functional<br>Functional                           |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4864810<br>4864843<br>4902579  | 1000<br>500               | 125.73<br>29.52<br>5.48         |                |                            |                               |          |
| 8.67<br>8.68<br>8.69    |  |   | 11<br>11<br>11  |                        |              |        | DCM chowk BG Road<br>Sadar-S/S BG Road<br>CSA colony BG Road                 | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4865089<br>4865090<br>4902519  | 500<br>500<br>499.98      | 10.30<br>6.88<br>0.00           |                |                            |                               |          |
| 8.70<br>8.71<br>8.72    |  |   | 33<br>11<br>66  |                        |              |        | 33 kV Pandav Nagar DF<br>Philips DMS<br>Nangloi Ckt 2                        | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 5295200<br>4902568<br>Y0357821 | 100<br>100<br>0.8         | 0.00<br>7.51<br>0.00            |                |                            |                               |          |
| 8.73<br>8.74<br>8.75    |  |   | 66<br>66<br>66  |                        |              |        | Mundka to MGP-1<br>MGP T-off to Naneloi C<br>Mundka to Sawda Ghe             | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4864983<br>4864971<br>4865032  | 800<br>800<br>800         | 108.95<br>0.00<br>24.38         |                |                            |                               | -        |
| 8.76<br>8.77<br>8.78    |  |   | 11<br>11<br>11  |                        |              |        | Tibia College Faiz Road<br>EAST PARK ROAD Faiz Manak Pura Faiz Road          | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902599<br>4865082<br>4902577  | 1333.33<br>133.333<br>100 | 10.58<br>11.86<br>6.67          |                |                            |                               |          |
| 8.79<br>8.80<br>8.81    |  |   | 11<br>11<br>11  |                        |              |        | ESI Hospital and Ramer<br>Moti Nagar Tanga stan<br>41 Rama Road (20 Ram      | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902539<br>4902548<br>4865093  | 100<br>100<br>100         | 5.85<br>0.00                    |                |                            |                               |          |
| 8.82<br>8.83<br>8.84    |  |   | 11<br>11<br>11  |                        |              |        | 51 Rama Road S. B. Mil<br>Nazafearh Road S. B. M<br>Moti Nagar Kinck S. R. M | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902528<br>4902564<br>4902591  | 100<br>100<br>1333.33     | 1.53<br>7.33<br>2.89            |                |                            |                               |          |
| 8.85<br>8.86<br>8.87    |  |   | 66<br>66<br>11  |                        |              |        | sagarpur Rewari Line<br>Paopan Kalan Rewari L<br>BSES NDB JEXI ON BUT        | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 5129960<br>4864960<br>4902529  | 281.25<br>1000<br>400     | 17.50<br>102.29                 |                |                            |                               |          |
| 8.88<br>8.89<br>8.90    |  |   | 11<br>33<br>33  |                        |              |        | NDPL BSES (EX) ON BU<br>33 kV Vishal -1 Rewari I<br>33 kV Vishal -2 Rewari I | S Metered<br>Metered<br>Metered                            | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4902525<br>4902510<br>4865140  | 400<br>400<br>937.5       | 0.06                            |                |                            |                               |          |
| 8.91<br>8.92<br>8.93    |  |   | 33<br>66<br>33  |                        |              |        | 33 kV Mavapuri Rewari<br>66/11 Tr 3 Rewari Line<br>33/11 Tr 1 Ramoni Line    | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4854808<br>4855080<br>4854877  | 187.5<br>2500<br>100      | -6.13<br>-5.64<br>-10.39        |                |                            |                               | -        |
| 8.94<br>8.95<br>8.95    |  |   | 33<br>33<br>66  |                        |              |        | I/C from Rohtak road S<br>Vishal (imp/Exp) Suder                             | Metered<br>Metered<br>Metered                              | Functional<br>Functional                           |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI                            |  |                 | 4854855<br>4855149<br>4854092  | 1250<br>187.5<br>1000     | 36.86<br>0.10                   |                |                            |                               | <u> </u> |
| 8.97<br>8.98<br>8.99    |  |   | 66<br>66<br>11  |                        |              |        | T X 3 Bawana<br>T X 1 Bawana   | Metered<br>Metered<br>Metered                              | Functional<br>Functional<br>Functional             |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4864827<br>4864892<br>4903553  | 333.33<br>4000<br>100     | 236.06                          |                |                            |                               | <u> </u> |
| 8.100<br>8.101<br>8.102 |  |   | 66<br>66<br>64  |                        |              |        | DELHI MSW Bawana<br>TRANSFORMER 4 (1600<br>66kV Incomerce                    | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed<br>Mixed                | AMI<br>AMI<br>AMI                     |  |                 | 4854884<br>5128449<br>)F465342 | 1000<br>2000              | 144.46<br>359.46                |                |                            |                               | F        |
| 8.103<br>8.104<br>8.104 |  |   | 66<br>11<br>22  |                        |              |        | 66kV Incomer 2-220kV<br>Vishal BSES Ramesh Na                                | Metered<br>Metered   | Functional<br>Functional                           |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | XF465248<br>4902572            | 1 100                     | 433.98<br>344.44<br>-0.01       | -              |                            |                               | -        |
| 8.106<br>8.107          |  |   | 33<br>33<br>66  |                        |              |        | DEV NOR-SERLADA BA<br>DEV NGR-RAMA RD.<br>GIS (160 MVA)                      | Metered<br>Metered   | Functional   |  | Mixed<br>Mixed                         | AMI<br>AMI                            |  |                 | Q0487625<br>Q0491811           | 1                         | 1/2.48<br>47.46<br>159.56       |                |                            |                               | _        |
| 8.109<br>8.110<br>8.110 |  |   | 33  |                        |              |        | DEV NGR-NARAINA DT   | Cost-1   |  |  |  |                                       |  |                 | Q0487627                       | 1                         | 0.00                            |                |                            |                               | -        |
| 8.111<br>8.112<br>8.113 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               |          |
| p.114<br>B.115<br>B.116 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 | -              |                            |                               | -        |
| 8.117<br>8.118<br>8.119 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               | <u> </u> |
| 8.120<br>8.121<br>8.122 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               |          |
| 8.123<br>8.124<br>8.125 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 | -              |                            | _                             | <u> </u> |
| 8.126<br>8.127<br>8.128 | -  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            | -                             |          |
| 8.129<br>8.130<br>8.131 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               | <u> </u> |
| 8.132<br>8.133<br>8.133 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               | _        |
| 8.135<br>8.136          |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               | -        |
| 8.137<br>8.138<br>8.139 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               |          |
| 8.140<br>8.141<br>8.142 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                | ]                          |                               |          |
| 8.143<br>8.144<br>8.145 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 | E              |                            | _                             | E        |
| 8.146<br>8.147<br>8.148 | -  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            | -                             |          |
| B.149<br>B.150<br>B.151 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 |                |                            |                               | <u> </u> |
| 8.152<br>8.153<br>8.454 |  |   |   |                        |              |        |  |  |  |  |  |                                       |  |                 |                                |                           |                                 | -              |                            |                               | -        |
| PC4.W                   |  |   | 4   | 4                      | 1            |        |  |  |  |  |  |                                       |  |                 |                                | 6                         | 1                               | 1              |                            |                               | <u> </u> |

|   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   | _ |
|---|-----------------------------------|---|--------------------------------|------------------------|---|--|--------------------------|-----------------------|----------------------|-------------------------|----------------------|------------------------|------------------|--|-----------------|----------------------|---|---|
| B.13380   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13387   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13388   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13389   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B.13390   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B.13391   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B.13392   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B.13393   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B.13394   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13395   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13396   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B 13397   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8 12202   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| B 12200   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 0.13399   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| 8.13400   |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      | 1 1                    |                  | 10313.30   | 0.00            |                      |   |   |
| B.15401   |                                   |   |                                |                        |   | Total (MU)   |                          |                       |                      |                         |                      |                        |                  | 10742.30   | 0.00            | 0.000                |   |   |
| B.13402   |                                   |   |                                |                        | Net input energy  | at DISCOM periphery (M   | AU)                      |                       |                      |                         |                      |                        |                  |  |                 | //41.30              |   | _ |
| Color<br>code   |                                   | Norman and the standard sector wheel              |                                |                        | 1   | Parameter  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
|   |                                   | Please enter voltage level or leave blank         |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
|   |                                   | Please enter feeder id and name or leave blank    |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
|   |                                   | Enter meter no or leave blank                     |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
|   |                                   | Enter CT/PT ratio or leave blank                  |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
| 0   |                                   | Please enter numeric value or 0                   |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
|   |                                   | Please select yes or no from list                 |                                |                        |   |  |                          |                       |                      |                         |                      | -                      |                  |  |                 |                      |   |   |
|   |                                   | Formula protected                                 |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |
| VWe undertake that ti<br>Authorised Signatory en<br>Name of Authorised Sig<br>Name of the DISCOM:<br>Full Address:- | he information supplied<br>d Seal | n bhi Document and Pro-forma is accurate to the b | ast of my knowledge and if any | of the information sup | plied is found to be inco<br>HAF<br>E<br>AGM-1<br>Tats Powe | Context and such information of the second such information of the second such as the sec | elon result into loss to | the Central Governmen | t or State Governmen | or any of the authority | under them or any of | her person affected, l | /we undertake to | Indemnify such los<br>Signature:-<br>Heme of Energy Mar<br>Registration Humber | n<br>Davin<br>T | der Bhatia<br>A-7419 | ) |   |
| Seal  |                                   |   |                                |                        |   |  |                          |                       |                      |                         |                      |                        |                  |  |                 |                      |   |   |