





PUNJAB STATE POWER CORPORATION LIMITED (PSPCL)

REGISTERED OFFICE ADDRESS
THE MALL, PATIALA, DISTRICT PATIALA, PUNJAB – 147001, INDIA

"Report on Monitoring and Verification (M&V) Audit under PAT Cycle-VII"

Prepared By:
NAMDHARI ECO ENERGIES PVT. LTD.





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AY: 2024-25



Monitoring and Verification (M&V) Report for Punjab State Power Corporation Limited Punjab prepared under the provisions of the Bureau of Energy Efficiency

(Manner and Intervals for Conduct of M & V Audit in Electricity Distribution Companies) Regulations, 2010 as applicable for Perform, Achieve and Trade (PAT) Cycle – VII



Punjab State Power Corporation Ltd.

M&V Audit Report For PSPCL: FY 2024-25 Under PAT- Cycle - VII

(PSPCL-DIS0014PB) PSPCL,

The Mall, Patiala-147001 Punjab

Prepared for:



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Audited By:

Namdhari Eco Energies Pvt. Ltd. Accredited Energy Auditor – BEE Accredited Energy Auditor (AEA-206)

Bureau of Energy Efficiency

Ministry of Power, Govt. of India



Acknowledgement

We would like to express our sincere gratitude to **Punjab State Power Corporation Limited** (**PSPCL**) for granting us the opportunity to contribute to their ongoing mission of promoting **Energy Conservation** and operational excellence in line with the Government of India's policies.

This Monitoring & Verification (M&V) Audit has been undertaken in compliance with the Gazette Notification of the Ministry of Power, Government of India, which mandates that:

"Each Designated Consumer shall provide an arrangement for monitoring and verification for Distribution Loss verification by Accredited Energy Auditors. The Designated Consumer, in consultation with the Empanelled Accredited Energy Auditor (EmAEA), shall establish a transparent, independent and credible monitoring and verification arrangement for determining Transmission & Distribution Losses, in accordance with the Bureau of Energy Efficiency (Manner and Interval of Time for Conduct of Energy Audit) Regulations, 2010, for compliance with energy consumption norms and standards (percentage of Transmission & Distribution losses for the DISCOM sector)."

We are particularly thankful to the senior management, officers, and employees of **Punjab State Power Corporation Limited, Punjab**, Patiala for their excellent cooperation and proactive support extended to our team during the data collection, verification, and field assessment phases of this audit. Their openness, enthusiasm, and active engagement have significantly contributed to the smooth and successful execution of this assignment.

PUNJAB STATE POWER CORPORATION LIMITED, Team

- 1. Er. Rakesh Chand Kokria Chief Engineer/Energy Audit & Enforcement
- 2. Er. Saleem Mohammad Dy CE/DSM
- 3. Er. Harpreet Raj Singh Sandhu ASE/DSM
- 4. Er. Ravi Verma ASE/Distribution Projects(D-1) cum Energy Auditor EA-7969
- 5. Er. Bhupinder Singh AEE/DSM

We also wish to record our deep appreciation to all technical staff whose willingness to collaborate in this exercise reflects their strong commitment to improving system efficiencies and exploring energy-saving opportunities across the network.

Bali Singh
Accredited Energy Auditor (AEA-206)
Bureau of Energy Efficiency
Ministry of Power, Govt. of India

Namdhari Eco Energies Pvt. Ltd.



Audit Team

The M&V Audit was expertly conducted by a team of Energy professionals from Namdhari Eco Energies Pvt Ltd. The contract for this project was awarded by **Punjab State Power Corporation Limited** under LOA No: 001/DSM dated 07.04.2025. Each team member played a pivotal role in ensuring the project's successful execution. The audit commenced on 27th May 2025 and was completed on 28th May 2025. The following individuals represented Namdhari Eco Energies Pvt Ltd. in this project:

S. No.	No. Name Designation	
1	Mr. Bali Singh	Accredited Energy Auditor (AEA-206)
2	Mr. Neeraj Gaur	Certified Energy Auditor & Sector Expert-Discom
3	Mr. Murtaza Ahmad Ganie	Energy Consultant

Each team member leveraged their expertise and skills to conduct a thorough and precise energy audit, which was critical to the verification study's success.

We extend our heartfelt thanks to the entire team for their unwavering dedication, professionalism, and commitment to delivering high-quality results. Their collaborative efforts with **Punjab State Power Corporation Limited_**were pivotal in meeting the project objectives and achieving the desired outcomes. Their contributions were instrumental in the successful completion of the Monitoring and Verification Audit.

Accredited Energy Auditor (AEA-206)
Bureau of Energy Efficiency
Ministry of Power, Govt. of India

Namdhari Eco Energies Pvt Ltd (Mr. Bali Singh) Accredited Energy Auditor





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List of Abbreviations

SI. NO.	Abbreviation	Description		
1	BY	Baseline year		
2	AY	Assessment year		
3	MU	Million Units		
4	ESCerts	Energy saving certificates		
5	PAT	Perform, Achieve and Trade		
6	PSPCL	Punjab State Power Corporation Limited		
7	BEE	Bureau of Energy Efficiency		
8	HT	High Tension		
9	LT	Low Tension		
10	DC	Designated Consumers		
11	X'mers	Transformers		
12	SEC	Specific energy consumption		
13	M&V	Monitoring and Verification		
14	DT	Distribution Transformers		
15	RPO	Renewable Purchase Obligations		
16	T&D	Transmission & Distribution		
17	GATP	Guru Amardas Thermal Power Plant		
18	BBMB:	Bhakra Beas Management Board		
19	RSD	Ranjit Sagar Dam		



Executive Summary

Summary Of Energy Input & Losses of Baseline Year & Assessment Year

The data of 2018-19 and 2024-25 have been considered for comparison between baseline year and assessment year. In baseline years PSPCL achieved 12.94% Distribution losses whereas during assessment year 2024-25 PSPCL has reduced to 12.31% against target of 12.40%. PSPCL, achieved 0.09% against target set under PAT –VII.

Table 1: Distribution loss details for BY and AY

	Punjab State Power Corporation Limited					
	Technical Details	Unit	BY - 2018-19	AY - 2024-25		
(i)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	54037.64	74639.7132		
(ii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	47043.42	65449.41		
(iii)	Distribution loss Details	Million kwh	6994.213	9190.30		
(iv)	Distribution loss Details	%	12.94	12.31		

Energy and Loss details

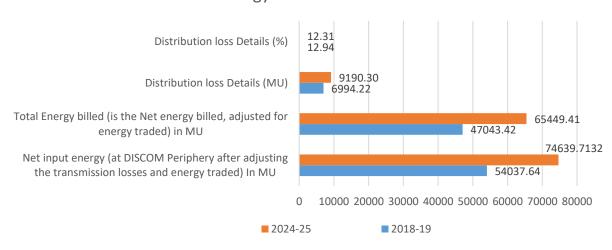


Figure 1:Energy Details for (BY vs AY)



1.1 Assessment of ESCerts

ESCerts Calculation Summary for PSPCL

As per the Monitoring & Verification (M&V) Audit conducted under **PAT Cycle-VII**, the following performance parameters were observed for **Punjab State Power Corporation Limited (PSPCL)**:

Table 2:PSPCL ESCerts Calculation

	PSPCL ESCertsCalculation				
S No.	Particulars	Unit	Value		
i.	Net Input Energy during baseline year 2018-19 (MU)	MU	54037.64		
ii.	Baseline T&D losses (%)	%	12.94%		
iii.	Target T&D losses (%) for assessment year FY 2024-25 as per revised gazette	%	12.40%		
iv.	T&D losses (%) achieved in assessment year FY 2024-25	%	12.31%		
V.	Target achieved	%	0.09%		
vi	ESCerts	Nos.	4,182.51		

Energy Saving Certificates (ESCerts) calculations:

Baseline (FY: 2018-19) T&D Losses: 12.94 %

Baseline Net Energy Input: 54,037.64 MU

Notified Target T&D Losses (Assessment Year): 12.40 %

Achieved T&D Losses (Assessment Year-2024-25): 12.31 %

Based on the above data, the calculation of eligible ESCerts is as follows

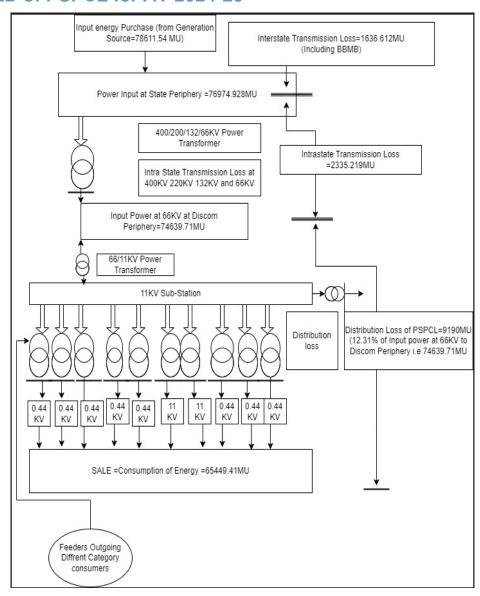
• (12.40-12.31) * 54037 * 860/1000 = **4183** (rounded off)

Conclusion:

Based on the results of the M&V Audit as per FY 2024-25, **PSPCL** is eligible for issuance of **4183 ESCerts** under **PAT Cycle-VII** for the verified performance period.



1.2 SLD of PSPCL for AY 2024-25



Single Line Concept (SLC) of PSPCL

The SLC shows energy flow from purchase (78,611.54 MU) through interstate and intrastate losses, resulting in 74,639.71 MU input at the DISCOM periphery. Power is stepped down via 66/11kV transformers to 11kV substations, where distribution losses of 9,190 MU (12.31%) occur. The net energy sold to consumers is 65,449.41 MU, delivered through 11kV and 0.44kV feeders to various categories of consumers.



Critical comments by EmAEA

During the Monitoring & Verification process, it was observed that **PSPCL** has undertaken several initiatives and systematic measures aimed at reducing **distribution losses** over the assessment period. As a result, the T&D losses have shown a consistent downward trend over the years.

For **PAT Cycle VII**, the revised target for T&D losses for the assessment year **2024-25** was notified as **12.40%**, while PSPCL achieved an actual T&D loss of **12.31%**, exceeding the target by **0.09%**. This performance reflects PSPCL's effective implementation of various network improvement and loss reduction programs.

Based on this achievement, PSPCL has been eligible for the issuance of **4,183 ESCerts** under PAT Cycle VII. The verified calculation shows that PSPCL met its notified target under the PAT Scheme, demonstrating sustained efforts toward enhancing energy efficiency in its distribution operations.

Critical Comments and Observations by EmAEA

During the Monitoring & Verification process for **PSPCL PAT Cycle VII**, the following key observations and critical comments were made based on field verification, data review, and discussions with PSPCL officials:

- 1. As per SOP issued by Government of India and Ministry of Power dated 03.07.2023, Point no. 2.2 (vi) that "For mixed feeders till such time the feeders are segregated, total energy shall be measured at feeder level and energy consumed by non-agriculture consumers shall be deducted to arrive at energy consumption of agriculture consumers. The consumption shall be adjusted at normative T&D losses as determined by SERC/JERC for determination of subsidy.
- 2. Previously the Agriculture consumption for Mixed Load feeders was worked out by taking 30% to AP and the rest 70% booked to non-AP consumption, out of total consumption on Mixed load feeder.
- 3. AP subsidy bill for FY 2024-25 is being prepared as per new SOP issued by GOI and MOP, the Total Agriculture Energy Pumped for FY 2024-25 is 16546.93 MUs and if the same is calculated as per the old methodology the Total Agriculture Energy Pumped for FY 2024-25 is 16077.58 Mus.
- 4. All input energy data for FY 2024–25 was thoroughly downloaded and cross-verified through the PSPCL online portal. The figures were found to be accurate and consistent with the data reported in the Pro-forma.
- 5. A site visit to PSPCL's purchase department confirmed that energy procurement from various sources was correctly recorded. Monthly bills were examined, and the data was well-maintained and consistent with the internal energy schedule.

PSPCL

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- Since 2021, PSPCL has revised its billing methodology for unmetered AP Kandi mixed feeders. The segregation of exclusive Agricultural Pumping (AP) feeders from mixed feeders has led to more accurate accounting of input energy and a corresponding improvement in reported distribution losses from FY 2021-22 to FY 2024-25.
- 9. All energy schedules were fully verified. Related power purchase bills were collected, organized, and maintained with monthly breakups.
- 10. Billed energy data was cross-checked against PSPCL's online portal, with feeder-wise details confirming accuracy and alignment with submitted reports.



Introduction of Empanelled Accredited Energy Auditing Firm [EmAEA]

About Namdhari Eco Energies Pvt. Ltd

Eco Energies specializes in addressing the complex energy and efficiency challenges faced by today's demanding environments. We assist companies, Institutions, Residential Societies, etc. in enhancing their operational efficiency by modernizing processes, introducing automation, and optimizing systems and devices. With over 250 satisfied clients across various industry sectors in India, our services in energy auditing and consulting are tailored to meet diverse needs.

Founded in 2011, Eco Energies was established with a vision to provide industry-leading solutions in energy conservation and management, adhering to international standards. Our team comprises experienced management and technical professionals with extensive expertise in consultancy and training across manufacturing and service industries. Notably, some of our team members are lead auditors accredited by the Bureau of Energy Efficiency (BEE) of India and the Association of Energy Engineers (AEE) in the U.S.

We maintain strategic partnerships and affiliations with numerous national and international energy agencies and certification bodies. Among our accolades, the Energy Log – Energy Monitoring System received the 2nd Prize for the Most Innovative Energy Saving Project of the Year in 2021, awarded by the Power Minister of Haryana, along with a cash prize of Rs 50,000 for this groundbreaking initiative.

- Recognized as a Grade 2 Energy Service Company by the Bureau of Energy Efficiency (BEE).
- Certified as an accredited energy audit firm by the Bureau of Energy Efficiency (BEE).
- Officially impanelled with the Directorate of Energy, Himachal Pradesh, for energy-related projects.
- Team members hold international certifications from the Association of Energy Engineers (AEE), USA.
- Team members are accredited by the Bureau of Energy Efficiency (BEE).
- Impanelled with Power Grid Corporation of India Limited for energy efficiency projects.
- Listed with the Petroleum Conservation Research Association (PCRA) for energy efficiency projects.
- Registered with the Gujarat Energy Development Agency (GEDA) for energy-related initiatives.
- Officially empanelled with the Uttarakhand Energy Development Agency (UEDA) for energy projects.
- Our team member, Bali Singh, has been honoured as the Best Energy Engineer of the World for 2021 by the Association of Energy Engineers (AEE), USA.





NAMDHARI ECO ENERGIES PYT LTD

ENERGY FOR BETTER FUTURE BEE ACCREDITED ENERGY AUDIT FIRM & ESCO

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1.3 Registration number

EmAEA-057



Introduction of Designated Consumer PSPCL

Punjab State Power Corporation Limited (PSPCL) is the state-owned utility responsible for electricity generation and distribution across Punjab. Established in **2010** following the unbundling of Punjab State Electricity Board (PSEB), PSPCL is committed to delivering reliable and efficient power to a wide consumer base and contributing to the state's socioeconomic development.

PSPCL is registered as a **Designated Consumer (DC)** under the **Perform, Achieve and Trade (PAT) Scheme** administered by the **Bureau of Energy Efficiency (BEE)**, Ministry of Power, Government of India. It operates under **Registration No.: DIS0014PB**.

As part of PAT Cycle VII (2018-19 to 2024-25), PSPCL is actively working towards achieving targeted reductions in **AT&C losses** and improving overall energy efficiency through various initiatives—such as infrastructure upgrades, advanced metering deployment, grid automation, and loss reduction programs.

PSPCL operates an extensive distribution network, managed centrally from its corporate headquarters at **Patiala**, which serves as a key administrative hub.

General & Operational Details:

Parameter	Description		
Name of the Unit	Punjab State Power Corporation Limited (PSPCL)		
Year of Establishment	2010		
BEE Registration No.	DIS0014PB		
Sector / Sub-Sector	Electricity Distribution Company (DISCOM)		
Number of Circles	21		
Number of Divisions	104		
Number of Sub-Divisions	508		
Number of Feeders	13,658		
Number of Distribution Transformers (DTs)	12,50,538 (including 1,450 + 3 units at 66 KV, 33 kV)		
Number of Consumers	1,10,08,964		
Chief Executive	Sh. Ajoy Kumar Sinha, IAS (CMD, PSPCL)		
CMD Office Contact	Tel: 0175-2212005, 0175-2213199		
Registered Office Address	PSPCL Head office , The Mall - Patiala, Punjab - 147001		
Office Tel. / Fax	0175-2215774		



Parameter	Description
Energy Auditor	Er. Ravi Verma, ASE/distribution Projects (D-1) cum (Energy Auditor)
Energy Auditor Reg. No.	EA-7969
Energy Auditor Mobile	+91 96461 18860

PSPCL remains fully committed to improving operational efficiency, optimizing energy usage, and achieving its PAT Cycle VII targets, in alignment with the national mission for enhanced energy efficiency.

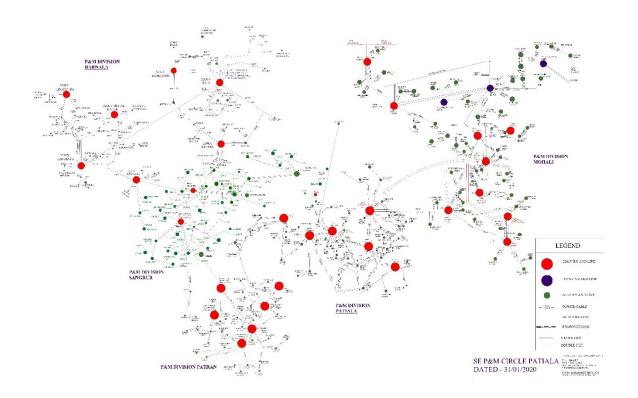


Figure 2:PSPCL-66 Transmission Power Network Under P&M Circle Patiala



1.4 Mission of PSPCL

The mission of Punjab State Power Corporation Limited (PSPCL) is to provide reliable, affordable, and quality electricity to all categories of consumers in Punjab, while ensuring operational efficiency, environmental sustainability, and customer satisfaction. PSPCL is committed to modernizing its infrastructure, minimizing transmission and distribution losses, and promoting the use of renewable energy in line with national energy policies.

The corporation strives to maintain financial viability, ensure safety and efficiency across its operations, and contribute to the socio-economic development of the state. Through continual adoption of innovative technologies and best practices, PSPCL aims to support the Government of India's mission of achieving "Power for All" and sustainable growth.

- Providing power supply to the consumers 24 Hours x 365 days Adopting best business practices
- Implementing modern technology in business
- Reducing distribution losses
- Providing reliable quality power to the consumers at affordable rates
- Providing consumer satisfaction through service excellence



Figure 3:PSPCL Sub Station Patiala



1.5 Period of verification

27th to 28th May 2025

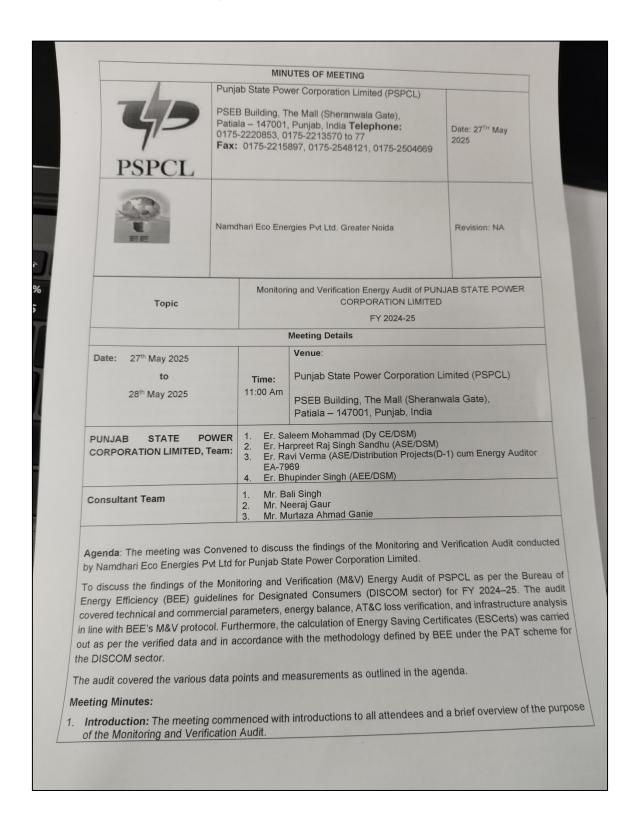
1.6 Assignments to the team

Table 3:Activity chart

Date & Time	Activity	Description of Work		
	Document Collection & Review Planning	PSPCL to provide key documents to Namdhari Eco Energies for initial review: • Instruction Sheet for filling Form-1 • General Information Sheet • Form-1 (auto-generated post data entry) • Form – Input Energy • Form – SJ (Consumer & Billing Data)		
	Study of Submitted Data & Site Visit Preparation	At Namdhari Eco Energies Greater Noida office, review of submitted data by the team (Accredited Energy Auditor, Certified Energy Auditor, Sector Expert). PSPCL to be informed of any additional documents required for on-site verification and review. Internal planning for site visit and verification strategy.		
27-May-25 (11:30 AM – 01:30 PM)	Opening Meeting & Scope Confirmation	Opening meeting at PSPCL with site engineers and officers. Discussion of audit scope, site visit plan, verification approach, required site support, and document review requirements.		
27-May-25 (02:00 PM – 05:30 PM)	On-site Verification & Data Validation	Conduct verification at selected substations and feeder levels. Validate metering systems, inspect DTs and feeders, review calibration records and meter logs. Signing of Form A & Form B post-verification.		
28-May-25 (10:30 PM – 1:00 PM)	Report Preparation & Internal Review	Initial analysis of verified data and observations. Drafting of Verification Report and preparation of final Sector Specific Pro-Forma, Form 1, Form 3, and other required forms.		
28-May-25 (02:00 PM – 07:00 PM)	Exit Meeting with PSPCL	Conduct exit meeting with PSPCL officers. Review of initial findings and summary of verification status. Agreement on final corrections, if any, prior to submission.		
Follow-up (via Email/Post Visit)	Final Report Submission	Submission of final Verified Pro-Forma, Form 1, Form 3, Form A, duly signed Form B, and full Verification Report to SDA, with copy to BEE.		
Verification Team	On-site	 Accredited Energy Auditor Certified Energy Auditor Sector Expert Engineer 		



1.7 Minutes of Meeting with the Plant and verification team





- Data Provided by PUNJAB STATE POWER CORPORATION LIMITED: The Consultant, Namdhari Eco Energies Pvt. Ltd. briefed the PSPCL team on the methodology adopted as per BEE's M&V Guidelines
- Verification of Energy and Losses: The Consultant verified the purchase energy, billed energy, transmission loss, billed amount, collected amount, and AT&C loss. These figures were cross-checked against the data provided by PUNJAB STATE POWER CORPORATION LIMITED. We verified the sample-based input energy and Consumer Billed energy from 1st April 2024 to 31st March
- Verified all the energy purchase records w.r.t Source Energy Bills.
- Verified distributed energy at different levels of consumers Source-wise Energy Purchase Verification:
- 8.
 - Verified power purchase bills (Solar, Wind, Exchange-based purchases) in line with actual metering data. Loss Assessment (Technical & Commercial):

 - Verified energy received vs energy billed, energy lost at technical and commercial levels
 - Assessed DT failure rates, unmetered connections, and revenue realization Evaluated calculation logic of AT&C loss (technical loss, collection efficiency)
- 9. Consumer Category Validation:
 - Reviewed category-wise consumer database including connected load and consumption
 - Cross-verified consumer classification with billing and metering system.
- 10. Energy Flow & Distribution Analysis:
 - Verified voltage-wise distribution data
- Reviewed Feeder-wise energy accounting
- 11. Infrastructure Details: The Consultant examined the infrastructure details, including the number of 220KV 66kV,11kV, and DT substations, as well as the number of voltage-wise feeders. This information was validated
- 12. Data Collection Completion: The Consultant confirmed that all the necessary data, all formats as per BEE's M&V Proforma completed had been successfully collected.
- 13. Recommendations/Points of Discussion:

14. Change in Kandi Feeder Methodology:

From 2021 onwards, PSPCL has revised its methodology for billing unmetered AP Kandi mixed feeders. These feeders, typically located along riverbanks, originally ranged from 325-350 in number in 2021. However, as of 1st April 2024, only 263 feeders remain classified as mixed Kandi feeders, following the segregation of Exclusive Agricultural Pumping (AP) supply feeders in kandi mixed are separated and billed with input energy pumped after subtracting the loses from 📻 that year. This is the reason for the continuous reduction in the losses of DISOCM from 2021 to 2023-24

15. Consumption Split for Kandi Feeders:

PSPCL considers 30% of the pumped energy for Kandi feeders as Agricultural (AP) supply, while the remaining 70% is treated as metered and billed non-AP consumption. Additionally, actual technical losses of the relevant financial year (e.g., 10.76% in FY 2023-24) were deducted from the pumped energy

16. Implementation of New Methodology:

A new methodology was introduced by the Punjab Government in August 2024, applicable retrospectively from FY 2023-24. This change significantly impacted on the reported losses and billing figures of PSPCL.

17. Impact of Methodology Change:

Due to the new methodology, there is an approximate reduction of 600 MU in billed energy. This variance was directly attributed to the revised accounting and categorization norms implemented by PSPCL

18. Billed Data Validation:

Billed energy data was cross-verified using the PSPCL online portal, where feeder-wise data was accessed and matched against submitted reports.

The calculation of Energy Saving Certificates (ESCerts) was carried out based on the verified data in accordance with the methodology and guidelines prescribed by the Bureau of Energy Efficiency (BEE) for the DISCOM sector under the Perform, Achieve and Trade (PAT) scheme.



Closing Remarks: The meeting concluded on a positive note, with both parties expressing their appreciation for each other's cooperation during the audit process. The Consultant assured PSPCL that having collected the relevant data the company assures timely completion of the Audit exercise.

Signed on behalf Punjab Sta Limited (PSPCL)	te power Corporation	Signed on behalf of Namdhari I	Eco Energies Pvt Ltd
Name	Signature & Date	Name	Signature & Date
1. Er. Saleem Mohammad (Dy CE/DSM) 2. Er. Harpreet, Singh Sandhu (ASE/DSM) 3. Er. Ravi Verma (ASE/Distribution Projects (D-1) cum Energy Manager EA-7969) 4. Er. Bhupinder Singh (AEE/DSM)	23/5/m / 23/65/204	Mr. Bali Singh (Accredited Energy Auditor- AEA-206) Mr. Neeraj Gaur (Certified Energy Auditor EA-30332 & Discom Sector Expert) Murtaza Ahmad Ganie	BNOZ 28/6/25 Leg 16/25 Leg 16/25 20/05/2

Accre

Accredited Energy Auditor (AEA-206 Bureau of Energy Efficiency of Power Govt of India

Bali Singh



1.8 Checklist Prepared by EmAEA

As part of the Monitoring & Verification (M&V) process for PAT Cycle VII, a comprehensive checklist was prepared by Namdhari Eco Energies Pvt. Ltd. (EmAEA) to ensure thorough and systematic verification of the data submitted by PSPCL. The checklist focuses on validating the accuracy, credibility, and completeness of both baseline and assessment year data, in line with the requirements of the Bureau of Energy Efficiency (BEE).

Key components of the verification checklist include:

- Review of Baseline Energy Audit Report as accepted by BEE.
- Examination of Form 1 (both original and normalized), submitted for Baseline Years and for Target Year 2024-25.
- Review of PAT Energy Audit Reports, if previously conducted.
- Verification of Data Sources to ensure correctness, credibility, and appropriate interpretation of reported information.
- Cross-verification of data provided in audit reports against comparable sources or background information where available.

Specific data points reviewed include:

- a) Feeder-wise input energy intake data across PSPCL's network.
- b) Monthly reports for monitoring trends and variations.
- c) Information on new equipment installations and their impact on energy consumption patterns.
- d) Energy Efficiency Projects implemented by PSPCL including review of estimated energy savings, procurement data, commissioning reports, and project outcomes.
- e) Any other relevant documents required to confirm the accuracy of reported data and compliance with BEE guidelines.

This structured checklist ensures that the M&V process is conducted with full transparency, consistency, and in alignment with regulatory expectations thereby supporting PSPCL in achieving verifiable and credible reporting under PAT Cycle VII.



Background of Monitoring & Verification Audit

1.9 PAT Cycle –VII (2018-19 to 2024-25)

The Perform, Achieve and Trade (PAT) Scheme is a key program under India's *National Mission for Enhanced Energy Efficiency (NMEEE)*, designed to promote energy efficiency improvements through a market-based mechanism. The PAT framework enables large energy consumers to enhance efficiency and, on surpassing prescribed targets, to earn Energy Saving Certificates (ESCerts) that can be traded on the energy exchange.

As per notifications issued by the Bureau of Energy Efficiency (BEE) under PAT Cycle VII, several State Electricity Distribution Companies (DISCOMs), including Punjab State Power Corporation Limited (PSPCL), have been identified as Designated Consumers (DCs) based on their energy consumption and network loss profiles.

For PAT Cycle VII (2018-19 to 2024-25), BEE in consultation with the Ministry of Power has established energy efficiency improvement targets for identified DISCOMs, typically in terms of percentage reduction in AT&C (Aggregate Technical & Commercial) losses over a defined period.

Upon achieving its notified targets, PSPCL will be eligible to claim Energy Saving Certificates (ESCerts) through its State Designated Agency (SDA). These certificates, each equivalent to 1 Metric Tonne of Oil Equivalent (MTOE) saved, can be traded or banked for future use. Conversely, in case of a shortfall against the target, PSPCL would be required to purchase ESCerts to ensure compliance.

The PAT mechanism incentivizes DISCOMs to continually improve energy efficiency through investments in loss reduction, network modernization, and demand-side management. PSPCL remains committed to pursuing such initiatives as part of its participation in PAT Cycle VII, contributing to both corporate and national energy efficiency goals.

1.10 Purpose of verification

The verification of all data being submitted to claim achievement or non-achievement of targets is to be done by Empaneled Accredited Energy Auditors (EmAEA) i.e. organizations of the Bureau of Energy Efficiency (BEE).

The verification activities involve ensuring correctness of data of baseline year and assessment year submitted through BEE's sector-specific pro-forma and Form 1, checking traceability of data to original supporting documents, ensuring rationality of formulae used for calculations and reporting, review of energy saving projects implemented post baseline years and assessing their impact on the SEC (Specific energy consumption) values and finally recommending the number of ESCerts that the DC should be issued or required to purchase to fulfill their obligation under the Energy Conservation Act.



1.11 Preparation Methodology for (M & V) - PSPCL DISCOM

1. Pre-Audit Preparation

- Coordination Meeting: Initial meeting with PSPCL's Energy Audit Cell, Circle Engineers, and Nodal Officers.
- Review of PSPCL's operational areas, project boundaries, and designated consumer base.
- Identification of energy efficiency measures (ECMs) already implemented under PAT or state-level DSM programs.
- Finalization of M&V boundaries, baseline year, and performance indicators (kWh saved, T&D losses reduced, load curve flattening, etc.).
- Data Collection: Request for past 6 Years of circle-wise and feeder-wise energy and billing data, especially for FY- 2024-25
- **Zone Mapping:** Identification of priority areas with high AT&C losses or abnormal consumption patterns.
- **Finalization of Sites:** Selection of sample substations, feeders, and DTRs based on consumer mix (HT/LT), load density, and geographical diversity.

2. System Review and Baseline Assessment

- Review of existing energy audit reports and AT&C loss reduction strategies.
- Cross-verification of energy input/output at key nodes (grid substation, 66/11kV substation, DTR).
- Assessment of existing metering infrastructure and data reliability.

3. Field Monitoring and Verification

- Verification of installed ECMs (capacitor banks, VFDs, smart metering, LED streetlights, etc.).
- Consumer-side sampling (where required) to validate demand-side improvements.
- Site visits to a representative set of:
 - Different kV level substations
 - Feeder metering points
 - Distribution transformers
 - HT/LT consumer premises (sampling basis)

4. Energy Balance and Loss Analysis

- Preparation of feeder-wise energy balance sheets.
- Technical Loss Estimation using:
 - > I²R losses for lines and transformers
 - Modelling of losses using standard BEE/CEA norms



- Commercial Loss Estimation through:
 - Consumer indexing validation
 - ➤ Meter-to-bill-to-cash trail
 - > Check meter readings vs billing data
- Ranking of feeders and DTRs based on energy loss levels.

5. Identification of Energy Conservation Measures (ECMs), form-A

- > Feeder bifurcation to balance load
- Capacitor bank optimization
- > Metering gap identification and rectification
- > Replacement of overloaded/underloaded transformers
- > LT line optimization
- > Smart meter/AMI implementation
- Each ECM will be supported with:
 - > Energy saving potential
 - Cost-benefit analysis
 - Estimated payback

6. Report Compilation and Submission

- Final report to include:
 - Energy flow diagrams
 - AT&C loss segmentation
 - Transformer loading summary
 - ECMs with investment analysis
- Format as per BEE (M & V) template
- Submission to PSPCL and BEE with presentation and audit validation.



Summary of Energy input & Infrastructure of BY vs AY

Punjab State Power Corporation Limited (PSPCL) has demonstrated steady growth in its distribution infrastructure between the Baseline Year (2018-19) and the Target Year (2024-25) under PAT Cycle-VII.

The net input energy increased from 54037.64 MU to 74,639.71 MU, while transmission losses rose from 2.41% to 5.05%. The volume of energy sold outside the periphery reduced notably, and open access sales were recorded at 10.283 MU in the Target Year.

Metering coverage improved across the network, with 100% metering maintained at 66KV and 11 kV levels. Consumer-end metering improved from 85.55% to 87.43%, and DT-level metering increased from 2.87% to 4.51%.

The number of 66 kV and 11 kV feeders grew, and the line length at various voltage levels expanded significantly, reflecting the company's continuous investment in strengthening the distribution network. The HT/LT ratio improved from 1.65 to 1.69, contributing to better network efficiency.

Table 4:Summary of energy input & Infrastructure

Sector	Sector-Electricity Distribution Companies (PSPCL)						
Summ	Summary of energy input & Infrastructure						
S.No	Parameters	Base line year (2018-19)	Target Year (2024-25)	Remarks (Source of data)			
A.1	Input Energy purchased (MU)	55369.88	78611.54	Historical Data			
A.2	Transmission loss (%)	2.41%	5.05%	Inter State. Inc. BBMB + Intra state transmission losses			
A.3	Transmission loss (MU)	1332.240	3971.832	1636.612+2335.219 (Inter State. Inc. BBMB + Intra state) =3971.832			
A.4	Energy sold outside the periphery (MU)	-2569.62	-827.63	(Energy Schedule) sheet SR. NO. 13.2+14+15+16+17			
A.5	Open access sale (MU)	0	10.283	Railway			
A.6	EHT sale	0	0				
A .7	Net input energy (received at DISCOM periphery or at distribution point, after adjustment)-(MU)	54037.64	74639.71	DD PORTAL			
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	yes	yes				
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	yes	yes				
A.10	% of metering available at DT	2.87%	4.51%	IT			
A.11	% of metering available at consumer end	85.55%	87.43%	IT			
A.12	No of feeders at 66kV voltage level	144	181	DD PORTAL			
A.13	No of feeders at 33kV voltage level	5	4	DD PORTAL			
A.14	No of feeders at 11kV voltage level	11566	13473	DD PORTAL			
A.15	No of LT feeders' level	0	0				



	Sector-Electricity Distribution Companies (PSPCL) Summary of energy input & Infrastructure							
S.No	Parameters	Base line year (2018-19)	Target Year (2024-25)	Remarks (Source of data)				
A.16	Line length (ckt. km) at 66kV voltage level	10099	11765.54	Planning				
A.17	Line length (ckt. km) at 33kV voltage level	87	73.7	Planning				
A.18	Line length (ckt. km) at 11kV voltage level	242012	263913	Planning				
A.19	Line length (km) at LT level	147083	156484	Planning				
A.20	HT/LT ratio	1.65	1.69	Planning				



1.12 PSPCL Energy Input & T&D Loss Overview (FY 2018-19 to FY 2024-25)

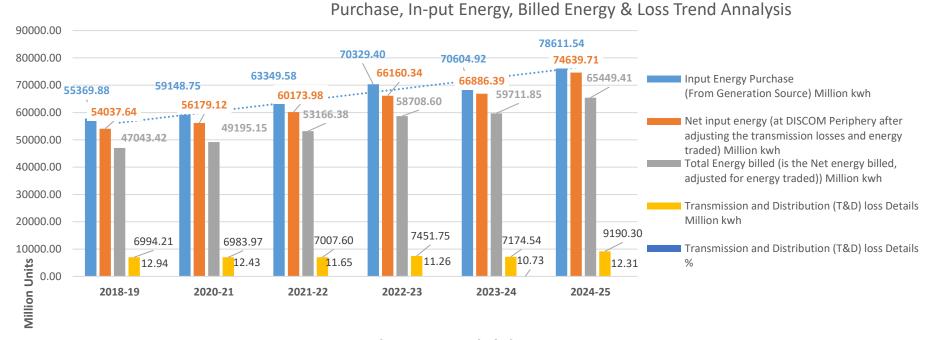
Punjab State Power Corporation Limited (PSPCL) has consistently expanded its energy procurement to meet rising consumer demand. Input energy purchase grew from 55369.88 million kWh in FY 2018-19 to 78,611.54 million kWh in FY 2024-25. Correspondingly, net input at the DISCOM periphery increased from 54,037.64 million kWh to 74,639.71 million kWh over the same period.

Energy billed to consumers rose from 47,043.42 million kWh to 65,449.41 million kWh, reflecting improved service delivery. T&D losses reduced steadily up to FY 2023-24 (from 12.94% to 10.73%) but slightly increased to 12.31% in FY 2024-25, likely due to network expansion and operational factors.

Overall, PSPCL continues to show positive growth, with ongoing efforts required to stabilize and further reduce distribution losses.

Table 5:Energy Input Details

Energy Input Details	UNIT	2018-19	2020-21	2021-22	2022-23	2023-24	2024-25
Input Energy Purchase (From Generation Source)	Million kwh	55369.88	59148.75	63349.58	70329.40	70604.92	78611.54
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	54037.64	56179.12	60173.98	66160.34	66886.39	74639.71
Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	47043.42	49195.15	53166.38	58708.60	59711.85	65449.41
Discom Distribution (T&D) loss Details	Million kwh	6994.21	6983.97	7007.60	7451.75	7174.54	9190.30
Discom Distribution (T&D) loss Details	%	12.94	12.43	11.65	11.26	10.73	12.31



Graphs 1:Energy Analysis for Last 6 years

1.13 Circle-Wise Distribution Loss Analysis and Energy Details for BY vs AY

Baseline Year (2018-19) vs Assessment Year (2024-25)

Punjab State Power Corporation Limited (PSPCL) has shown considerable improvement and operational growth across various circles from the baseline year 2018-19 to the assessment year 2024-25. A detailed analysis of input energy billed energy, and Transmission & Distribution (T&D) losses provides valuable insights into the performance and efficiency improvements of different regions.

Overall, PSPCL's input energy has seen a significant rise across most circles to meet increasing consumer demand and load growth. However, the performance in terms of T&D losses has shown a mixed trend, with certain circles achieving remarkable improvements, while a few others witnessing an increase in loss percentages.



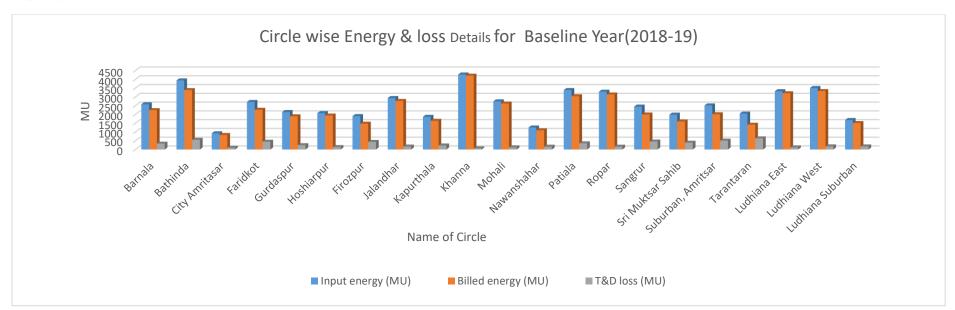


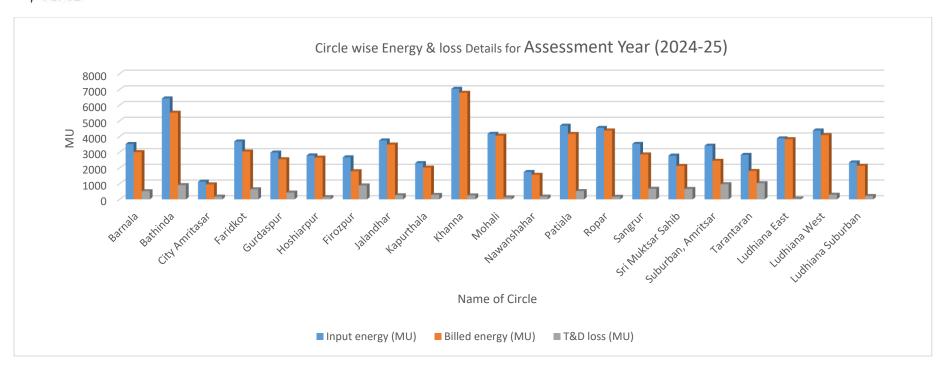
Table 6:Circle Wise Energy and Loss Details

		Circle Wise Energy and Loss Details							
S.N o		Baseline Year (2018-19) Assessment Year (20			(2024-25)				
	Name of circle	Input energy (MU)	Billed energy (MU)	T&D loss (MU)	T&D loss (%)	Input energy (MU)	Billed energy (MU)	T&D loss (MU)	T&D loss (%)
1	Barnala	2575.732	2241.82	333.91	12.96%	3524.56719	3007.31	517.2549	14.68%
2	Bathinda	3937.649	3384.53	553.12	14.05%	6424.4495	5518.42	906.0278	14.10%
3	City Amritsar	921.208	824.25	96.96	10.53%	1123.84838	951.48	172.3734	15.34%
4	Faridkot	2707.757	2264.54	443.21	16.37%	3685.1051	3045.79	639.3107	17.35%
5	Gurdaspur	2134.105	1889.38	244.73	11.47%	2982.5755	2551.37	431.2047	14.46%
6	Hoshiarpur	2074.318	1936.95	137.37	6.62%	2797.49624	2656.92	140.5768	5.03%
7	Firozpur	1903.157	1470	433.15	22.76%	2673.70697	1789.23	884.477	33.08%
8	Jalandhar	2931.306	2764.42	166.88	5.69%	3748.85547	3488.96	259.8961	6.93%
9	Kapurthala	1864.247	1635.18	229.07	12.29%	2305.70046	2021.39	284.312	12.33%
10	Khanna	4270.903	4206.54	64.36	1.51%	7036.58442	6787.16	249.4289	3.54%
11	Mohali	2741.799	2619.48	122.31	4.46%	4170.73911	4050.92	119.8178	2.87%
12	Nawanshahar	1254.309	1092.92	161.39	12.87%	1739.43205	1562.47	176.9664	10.17%
13	Patiala	3387.6	3036.47	351.13	10.37%	4691.05385	4165.65	525.4033	11.20%
14	Ropar	3294.785	3133.63	161.15	4.89%	4551.10106	4387.25	163.8551	3.60%
15	Sangrur	2445.114	1992.42	452.7	18.51%	3530.78694	2858.74	672.047	19.03%
16	Sri Muktsar Sahib	1985.638	1597.79	387.85	19.53%	2785.22957	2124.35	660.8779	23.73%
17	Suburban, Amritsar	2512.26	2008.39	503.87	20.06%	3419.18661	2454.52	964.6672	28.21%
18	Tarantaran	2044.751	1412.31	632.44	30.93%	2830.45278	1804.6	1025.849	36.24%
19	Ludhiana East	3319.788	3202.21	117.58	3.54%	3881.85576	3830.68	51.17471	1.32%
20	Ludhiana West	3504.025	3327.73	176.29	5.03%	4386.02866	4093.07	292.9559	6.68%
21	Ludhiana Suburban	1680.294	1505.36	174.93	10.41%	2350.95758	2136.57	214.387	9.12%

Graphs 2: Circle wise Energy & loss Details for Baseline Year (2018-19) & Assessment Year (2024-25)







Graphs 3:Circle wise Energy & loss Details for Assessment Year (2024-25)

Circle-wise Energy Input and T&D Loss Analysis for PSPCL

Consistently Low Loss Circles:

- Khanna has maintained one of the lowest T&D losses, with a marginal rise from 1.51% to 3.54%, despite nearly doubling its input energy.
- Mohali demonstrated an excellent reduction from 4.46% to 2.87% T&D loss, reflecting improved network efficiency.
- Ropar and Ludhiana East continued to maintain very low losses, showcasing strong system performance and commercial discipline.

Circles with Significant Improvement:

• Hoshiarpur reduced its T&D loss from 6.62% to 5.03%, even with higher energy inflow.

PSPCL

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- Nawan Shahar improved from 12.87% to 10.17%.
- Ludhiana Suburban also slightly reduced its loss from 10.41% to 9.12%.

Circles Needing Focus:

- Firozpur, Suburban Amritsar, and Tarantaran have shown an increasing trend in T&D losses, reaching 33.08%, 28.21%, and 36.24% respectively. These regions warrant focused technical interventions and better commercial practices to curb rising losses.
- Sri Muktsar Sahib also showed an increase from 19.53% to 23.73%, needing immediate corrective actions.

Major Urban Circles:

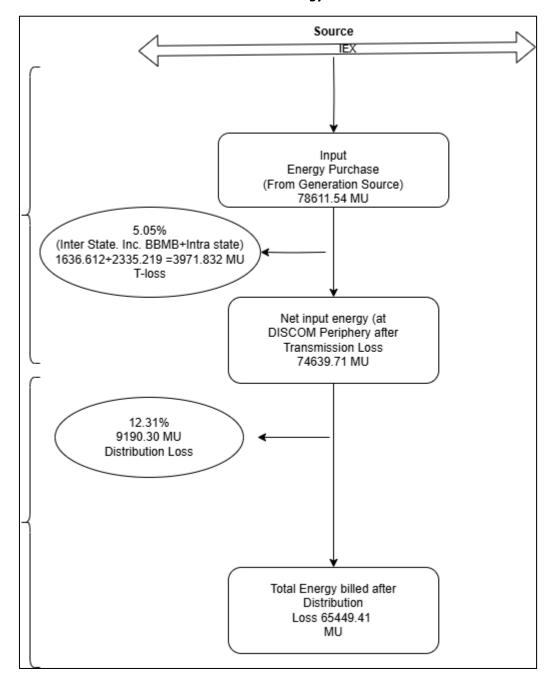
- City Amritsar observed an increase in loss from 10.53% to 15.34% despite rising energy sales, indicating possible commercial leakages or network constraints.
- Jalandhar and Ludhiana West continued to perform steadily with losses below 7%, despite the increased input demand.

In conclusion, PSPCL's circle-wise performance data reflects areas of operational excellence as well as regions where targeted improvements are needed. The corporation's strategic focus on network strengthening, advanced metering infrastructure (AMI), feeder segregation, and loss reduction programs should be further enhanced in circles with high T&D losses to improve the overall energy accounting and financial performance



Gate to Gate Energy Details

Table 7: GTG Energy Data



Balanced energy break-up from the provided PSPCL data, organized clearly by voltage level, and matching the given total energy input at the DISCOM periphery (74,639.71 MU)

Voltage Level	Description	MU
66 kV & Above (Inter-State)	Power at state transmission boundary	39,260.48
66 kV & Above (Intra-State)	Power procured from intra-state sources	37,430.24



Voltage Level	Description	MU
33 kV	Renewable Energy Procurement	17.36
11 kV	Renewable Energy Procurement	266.85
LT	Renewable Energy Procurement (Rooftop Solar)	131.37
LT	Sales Migration Input	(-)131.37
Embedded within DISCOM	Embedded energy (net embedded generation)	284.22
TOTAL Energy at DISCOM Periphery	Total Energy Available / Input	74,639.71

Notes:

- The 33kV, 11kV, LT, and embedded generation are all part of "Energy Embedded within DISCOM network" = **284.22 MU** (as shown in table).
- The big contributors are:
 - → 66kV & Above Interstate (39,260.48 MU)
 - → 66kV & Above Intrastate (37,430.24 MU)



1.14 Details of Consumers with respective energy Consumption

During the period 01.04.2024 to 31.03.2025, PSPCL served 1,10,08,964 consumers across multiple categories including domestic, commercial, industrial, agricultural, and others. The total energy billed during this period was 65,449.41 million Units (MU). Major consumption came from domestic (20,124.98 MU), HT industrial (20,294.55 MU), and agricultural (14,967.02 MU) consumers. The data below summarizes consumer segmentation and corresponding energy consumption for the reporting year.

Table 8:Details of Consumers energy consumption

	(Details of Consumers)											
	Summary of Energy											
	Period From 01.04.2024 To 31.03.2025											
S.No	Type of Consumers (EHT/HT/LT/Others) Category of Consumers (In Voltage) No of Consumers Consumption (In MU)					Remarks (Source of data)						
1	Domestic	EHT/HT/LT	400/220/66/33/11/LT	8151272	20124.980							
2	Commercial	EHT/HT/LT	400/220/66/11/LT	1297737	5226.749							
3	Water Supply			16026		Consumption taken in Category in which it falls.						
4	Public Lighting	LT	LT	6013	150.763							
5	HT Water Supply			227		Consumption taken in Category in which it falls.						
6	HT Industrial	EHT/HT/LT	400/132/66/11	16377	20294.553							
7	Industrial (Small)			97993	1126.776							
8	Industrial (Medium)			30537	2577.180							
9	HT Commercial	EHT/HT/LT	400/220/66/33/11/LT									



		(Details o	of Consumers)			
			ry of Energy	_		
S.No	Type of Consumers	Period From 01 Category of Consumers (EHT/HT/LT/Others)	.04.2024 To 31.03.202 Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)	Remarks (Source of data)
10	Others-1 (if any, specify in remarks)	Agricultural power	LT	1392176	14967.023	
11	Others-2 (if any, specify in remarks)	Railway Traction	400/132	8	89.361	
12	Others-3 (if any, specify in remarks)	Bulk Supply	LT/11/33	546	729.464	
13	Others-4 (if any, specify in remarks)	others (AP High Technology, Waste management & charitable hospitals)		52		Consumption taken in Category in which it falls.
14	Theft Units, Short Assessment, Unbilled Revenue (Eq.Units)				255.56	
15	Misc. Sale adjustment to match with planning (Temporary, night Supply, Non-Operation sale etc)	-	-	-	-93.00	-
		Total		11008964	65449.41	



1.15 Renewable Solar Energy Details Circle, Zone & Division Wise for AY 2024-25

Summary of Solar Energy Pumped and Open Access (01.04.2024 to 31.03.2025)

During FY 2024-25, PSPCL has successfully integrated **1313.68 LU** (131.37 MU) of solar energy pumped into the grid across various zones and divisions. The recorded **Open Access energy** stands at **102.83 LU** (10.28 MU), with major consumption seen in Ludhiana and select industrial areas. Divisions under **Mohali**, **Patiala**, **Ludhiana**, **and Barnala** showed leading performance in solar pumping, reflecting PSPCL's commitment towards increasing renewable energy penetration.

Key Points:

Total Solar Pumped: 1313.68 LU (131.37 MU)

• Open Access Consumption: 102.83 LU (10.28 MU)

• Major contributing divisions: Mohali (Tech-3 Sohana), Patiala (Comm 1 & 2), Ludhiana

• Highest open access recorded at TECH-III ESTATE, Ludhiana

• Increased participation from urban & industrial consumers in solar initiatives

	(01.04.2024 to 31.03.2025)											
Zone	Circle	En Pu (Li		Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)					
Border	CITY AMRITSAR	DS CITY CENTER DIVN., ASR	DS S/D GHEE MANDI TECH, ASR	2.15	0	0.215	0					
Border	CITY AMRITSAR	DS CITY CENTER DIVN., ASR	DS S/D HUSSAINPURA TECH. ASR.	0.75	0	0.075	0					
Border	CITY AMRITSAR	DS CITY CENTER DIVN., ASR	DS S/D MALL MANDI TECH. ASR.	9.15	0	0.915	0					
Border	CITY AMRITSAR	DS CIVIL LINE DIVN., ASR	DS S/D CIVIL LINE TECH., ASR	25.01	0	2.501	0					
Border	CITY AMRITSAR	DS CIVIL LINE DIVN., ASR	DS S/D ISLAMABAD TECH., ASR	1.52	0	0.152	0					



		(01	.04.2024 to 31.03.2025)				
Zone	Circle	Division	S/D	Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)
Border	CITY AMRITSAR	DS CIVIL LINE DIVN., ASR	DS S/D LAWRENCE ROAD TECH., ASR	18.39	0	1.839	0
Border	CITY AMRITSAR	DS DIVN. INDUSTRIAL AREA, ASR	DS GOLDEN TEMPLE TECH., ASR	0.59	0	0.059	0
Border	CITY AMRITSAR	DS DIVN. INDUSTRIAL AREA, ASR	DS S/D CHATIWIND TECH., ASR	1.66	0	0.166	0
Border	CITY AMRITSAR	DS DIVN. INDUSTRIAL AREA, ASR	DS S/D SULTANWIND TECH., ASR	DS S/D SULTANWIND TECH., ASR 2.26		0.226	0
Border	GURDASPUR	DS CITY DIVN. BATALA	DS S/D City BATALA	3.66	0	0.366	0
Border	GURDASPUR	DS CITY DIVN. BATALA	DS S/D East BATALA 15.04		0	1.504	0
Border	GURDASPUR	DS CITY DIVN. BATALA	DS S/D SOUTH BATALA		0	0.381	0
Border	GURDASPUR	DS CITY DIVN. BATALA	DS S/D WEST S/D BATALA	6.75	0	0.675	0
Border	GURDASPUR	DS S/U DIVN. BATALA	DS S/D NORTH S/D BATALA	4.29	0	0.429	0
Border	GURDASPUR	DS S/U DIVN. PATHANKOT	DS S/D DHAR	0.06	0	0.006	0
Border	GURDASPUR	DS S/U DIVN. PATHANKOT	DS S/D PANDORI	0.04	0	0.004	0
Border	SUB URBAN AMRITSAR	DS EAST DIVN.	DS S/D East Commercial	6.7	0	0.67	0
Border	SUB URBAN AMRITSAR	DS EAST DIVN.	DS S/D EAST TECH(East+Verka)	3.71		0.371	0
Border	SUB URBAN AMRITSAR	DS EAST DIVN.	DS S/D WEST ASR	S/D WEST ASR 9.27 0		0.927	0
Border	SUB URBAN AMRITSAR	DS EAST DIVN.	DS SOUTH S/D Asr 26.34 0		2.634	0	
Border	TARN TARAN	DS CITY DIVN. TARN TARAN	DS CITY S/D TARN TARAN	9.87	0	0.987	0
Border	TARN TARAN	DS DIVN. PATTI	DS CITY S/D PATTI	2.03	0	0.203	0
Central	CITY EAST LUDHIANA	DS F. POINT (SPL) DIVN.	TECHI F. POINT (SPL)	5.71	0	0.571	0



		(01.	04.2024 to 31.03.2025)				
Zone	Circle	Division	S/D	Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)
Central	CITY EAST LUDHIANA	DS F. POINT (SPL) DIVN.	TECHII F. POINT (SPL)	5.48	0	0.548	0
Central	CITY EAST LUDHIANA	DS S. NAGAR (SPL) DIVN.	TECHII S. NAGAR (SPL)	0.06	0	0.006	0
Central	CITY WEST LUDHIANA	DS ESTATE (SPL) DIVN.	TECHIII ESTATE (SPL)	0	102.83	0	10.283
Central	CITY WEST LUDHIANA	DS MODEL TOWN (SPL) DIVN.	TECHII M. TOWN (SPL)	7.77	0	0.777	0
Central	CITY WEST LUDHIANA	DS MODEL TOWN (SPL) DIVN.	TECH UNIT-I M. TOWN	16.07	0	1.607	0
Central	KHANNA	DS (SPL)DIVN.M/GOBIND GARH	COMM. SPL. S/DIV M/GOBIND GARH	12	0	1.2	0
Central	KHANNA	DS DIVN. KHANNA	DS CITY-1 S/D KHANNA		0	2.506	0
Central	KHANNA	DS DIVN. KHANNA	DS CITY-2 S/D KHANNA	22.9873	0	2.29873	0
Central	KHANNA	DS DIVN. KHANNA	DS S/D BHARI	1.56	0	0.156	0
Central	SUB URBAN LUDHIANA	DS DIVN. AHMEDGARH	DS S/D MALOUD	2.18	0	0.218	0
Central	SUB URBAN LUDHIANA	DS DIVN. JAGRAON	DS CITY S/D JAGRAON	18.51	0	1.851	0
Central	SUB URBAN LUDHIANA	DS DIVN. RAIKOT	DS S/D RAIKOT	2.07	0	0.207	0
North	HOSHIARPUR	DS CITY DIVN. HSP	DS CITY S/D HSP	3.66	0	0.366	0
North	HOSHIARPUR	DS CITY DIVN. HSP	DS CIVIL LINES S/D HSP	8.84	0	0.884	0
North	HOSHIARPUR	DS CITY DIVN. HSP	DS S/D Janauri	0.32	0	0.032	0
North	HOSHIARPUR	DS DIVN. MAHILPUR	DS S/D BASSI KALAN	2.795	0	0.2795	0
North	HOSHIARPUR	DS DIVN. MAHILPUR	DS S/D MAHILPUR	2.53	0	0.253	0
North	HOSHIARPUR	DS DIVN. MAHILPUR	DS S/D PALDI	1.32	0	0.132	0
North	HOSHIARPUR	DS DIVN. MAHILPUR	DS S/D SAILA KHURD	1.29	0	0.129	0
North	HOSHIARPUR	DS S/U DIVN. HSP	DS S/D ATTOWAL	1.57	0	0.157	0
North	HOSHIARPUR	DS S/U DIVN. HSP	DS S/U S/D HSP	6.83	0	0.683	0



		(01	.04.2024 to 31.03.2025)				
Zone	Circle	Division	S/D	Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)
North	JALANDHAR	DS Divn. Cantt, Jalandhar	DS S/D Rural Adampur, Jalandhar	3.89	0	0.389	0
North	JALANDHAR	DS Divn. Cantt, Jalandhar	DS S/D Rural Cantt, Jalandhar	5.76	0	0.576	0
North	JALANDHAR	DS Divn. Cantt, Jalandhar	DS S/D Rural Jandu Singha, Jalandhar 7.4 (0	0.74	0
North	JALANDHAR	DS Divn. Cantt, Jalandhar	DS S/D Tech-1 Cantt, Jalandhar	6.1	0	0.61	0
North	JALANDHAR	DS Divn. Cantt, Jalandhar	DS S/D Tech-2 Suburban Cantt, Jalandhar	18.23	0	1.823	0
North	JALANDHAR	DS Divn. East, Jalandhar	DS S/D Tech-1 Nehru Garden, Jalandhar	6.7	0	0.67	0
North	JALANDHAR	DS Divn. East, Jalandhar	DS S/D Tech-3 Industrial Area, Jalandhar	2.59	0	0.259	0
North	KAPURTHALA	DS CITY DIVN. NAKODAR	DS S/D LOHIAN		0	0.247	0
North	KAPURTHALA	DS CITY DIVN. NAKODAR	DS S/D MALSIAN	1.09	0	0.109	0
North	KAPURTHALA	DS DIVN. KARTARPUR	DS S/D BHOLATH	0.54	0	0.054	0
North	KAPURTHALA	DS DIVN. KARTARPUR	DS S/D CITY-1 KARTARPUR	3.52	0	0.352	0
North	KAPURTHALA	DS S/U DIVN. KAPURTHALA	DS S/D CITY-2 KAPURTHALA	0.11	0	0.011	0
North	KAPURTHALA	DS S/U DIVN. KAPURTHALA	DS S/D DHILWAN	1.74	0	0.174	0
North	KAPURTHALA	DS S/U DIVN. KAPURTHALA	DS S/U S/D KAPURTHALA	5.53	0	0.553	0
North	KAPURTHALA	DS S/U DIVN. NAKODAR	DS S/D NURMAHAL	1.74	0	0.174	0
North	KAPURTHALA	DS S/U DIVN. NAKODAR	DS S/U S/D NAKODAR	5.95	0	0.595	0
North	NAWANSHAHR	DS DIVN. GORAYA	DS S/D RURKA KALAN	2.22	0	0.222	0
South	BARNALA	DS CITY DIVN. BARNALA	DS CITY S/D BARNALA	30.27	0	3.027	0
South	BARNALA	DS CITY DIVN. BARNALA	DS S/D NO-1 DHANAULA 4.31 0		0.431	0	
South	BARNALA	DS CITY DIVN. BARNALA	DS S/D SANGHERA 10.85 0		1.085	0	
South	BARNALA	DS DIVN. MALERKOTLA	DS S/D CITY-1 MALERKOTLA	5.84	0	0.584	0
South	BARNALA	DS DIVN. MALERKOTLA	DS S/D CITY-2 MALERKOTLA	1.24	0	0.124	0
South	BARNALA	DS S/U DIVN. BARNALA	DS S/D BHADOUR	3.85	0	0.385	0
South	BARNALA	DS S/U DIVN. BARNALA	DS S/D NO-1 TAPA	12.65	0	1.265	0



		(01.	04.2024 to 31.03.2025)				
Zone	Circle	Division	S/D	Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)
South	BARNALA	DS S/U DIVN. BARNALA	DS S/U S/D BARNALA	27.11	0	2.711	0
South	MOHALI	DS SPL. DIVN. MOHALI	DS S/D Tech - 3(SOHANA)	313.19	0	31.319	0
South	MOHALI	DS SPL. DIVN. MOHALI	TECH UNIT-1 MOHALI 37.4		0	3.74	0
South	MOHALI	DS SPL. DIVN. MOHALI	TECH UNIT-2 MOHALI	54.0901	0	5.40901	0
South	PATIALA	DS Divn. Model Town, Patiala	COMM-2 S/D Model Town/Spl Divn Patiala	54.37	0	5.437	0
South	PATIALA	DS Divn. Model Town, Patiala	DS S/D Comm-1, Model Town, Patiala	75.1	0	7.51	0
South	PATIALA	DS DIVN. NABHA	DS CITY S/D NABHA	21.55	0	2.155	0
South	PATIALA	DS DIVN. RAJPURA	DS COMMERCIAL S/D RAJPURA	38.45	0	3.845	0
South	PATIALA	DS DIVN. SAMANA	DS CITY S/D SAMANA	17.65	0	1.765	0
South	ROPAR	DS DIVN. KHARAR	DS S/D CITY KHARAR	10.46	0	1.046	0
South	ROPAR	DS DIVN. ANANDPUR SAHIB	DS S/D ANANDPUR SAHIB	5.54	0	0.554	0
South	ROPAR	DS DIVN. ROPAR	DS S/D ROPAR	14.55	0	1.455	0
South	SANGRUR	DS CITY DIVN. SUNAM	DS CITY S/D SUNAM	22.74	0	2.274	0
South	SANGRUR	DS DIVN. SANGRUR	DS CITY S/D SANGRUR	26.43	0	2.643	0
South	SANGRUR	DS DIVN. SANGRUR	DS S/D BADRUKHAN	11.8	0	1.18	0
South	SANGRUR	DS DIVN. SANGRUR	DS S/D BHAWANIGARH	5	0	0.5	0
South	SANGRUR	DS DIVN. SANGRUR	DS S/U S/D SANGRUR	20.22	0	2.022	0
West	BATHINDA	DS DIVN. RAMPURA PHUL	DS S/D CITY RAMPURA PHUL	2.51	0	0.251	0
West	FARIDKOT	DS CITY DIVN. MOGA	DS S/D DHARAMKOT	3.42	0	0.342	0
West	FARIDKOT	DS CITY DIVN. MOGA	DS SOUTH S/D MOGA	6.7	0	0.67	0
West	FARIDKOT	DS DIVN. KOTKAPURA	DS CITY S/D KOTKAPURA	10.98	0	1.098	0
West	FARIDKOT	DS DIVN. KOTKAPURA	DS S/D JAITO	13.22	0	1.322	0
West	FARIDKOT	DS DIVN. KOTKAPURA	DS S/U S/D KOTKAPURA	28.1	0	2.81	0
West	FARIDKOT	DS S/U DIVN. MOGA	DS NORTH S/D MOGA	22.9	0	2.29	0



	(01.04.2024 to 31.03.2025)									
Zone	Circle	Division	S/D	Solar Energy Pumped (LU)	Open Access (LU)	Solar Energy Pumped (MU)	Open Access (MU)			
West	FARIDKOT	DS S/U DIVN. MOGA	DS S/D CHARIK	0.59	0	0.059	0			
West	FEROZPUR	DS CITY DIVN. FEROZEPUR	DS CANTT. NO-2 S/D FEROZEPUR	14.35	0	1.435	0			
West	MUKATSAR	DS DIVN. MALOUT	DS S/U S/D MALOUT	6.01	0	0.601	0			
West	MUKATSAR	DS DIVN. MUKTSAR	DS S/D RUPANA	3	0	0.3	0			
		Total		1313.682	102.83	131.3682	10.283			



1.16 Monthly AP billed energy based on feeder readings of Agricultural feeders for FY 2024-25 with actual Non-AP Consumption

Summary of AP Billed Energy Based on Feeder Readings (FY 2024–25): The Agricultural Pumped (AP) energy consumption for FY 2024–25 has been compiled based on actual feeder readings across agricultural feeders. The data accounts for technical losses as per notified percentages and applies differential billing rates valid during the year. The report highlights the monthly and cumulative AP consumption and corresponding billed revenue, providing an accurate representation of agricultural energy usage and financial implications for the utility.

Table 9:Agricultural feeders for FY 2024-25 with actual Non-AP Consumption

AP billed energy based on feeder readings of Agricultural feeders for FY 2024-25 with actual Non-AP Consumption

Month	AP Pumped energy for 2024-25 (Mu)	Energy Consumption (AP Loss @10.45%) upto 15.06.2024 and from 16.06.2024	AP metered Sale (Mu)	Total AP Consumption (Mu)	Amount (Rs in Cr.) @Rs 6.55/unit upto 15.06.2024 and from 16.06.2024 @Rs 6.70/unit	Cumulative Total Rs. Cr.	Cumulative Total AP Consumption (MU)
		(AP Loss @10.28%)					
April	273.59	245.00	7.29	252.29	165.25	165.25	252.29
Мау	1283.09	1149.00	9.69	1158.69	758.95	924.20	1410.99
AP Loss and Rate As per upto 15-06-2024 (TO 2024-25)	1004.60	899.62	8.17	907.79	594.60		
AP Loss and Rate As per from 16-06-2024 (TO 2024-25)	1004.60	901.33	8.17	909.50	609.36		



AP billed energy based on feeder readings of Agricultural feeders for FY 2024-25 with actual Non-AP Consumption

Month	AP Pumped energy for 2024-25 (Mu)	Energy Consumption (AP Loss @10.45%) upto 15.06.2024 and from 16.06.2024 (AP Loss @10.28%)	AP metered Sale (Mu)	Total AP Consumption (Mu)	Amount (Rs in Cr.) @Rs 6.55/unit upto 15.06.2024 and from 16.06.2024 @Rs 6.70/unit	Cumulative Total Rs. Cr.	Cumulative Total AP Consumption (MU)
June	2009.20	1800.95	16.34	1817.29	1203.97	2128.16	3228.28
July	3487.49	3128.97	18.10	3147.07	2108.54	4236.70	6375.35
August	2702.94	2425.08	13.03	2438.11	1633.53	5870.23	8813.46
September	2693.26	2416.39	12.19	2428.58	1627.15	7497.38	11242.04
October	1275.47	1144.35	9.69	1154.04	773.21	8270.59	12396.08
November	437.05	392.12	7.65	399.77	267.84	8538.43	12795.84
December	564.26	506.26	7.71	513.97	344.36	8882.79	13309.81
January	330.58	296.60	6.66	303.26	203.18	9085.98	13613.07
Feburary	536.24	481.11	7.88	488.99	327.63	9413.60	14102.06



AP billed energy based on feeder readings of Agricultural feeders for FY 2024-25 with actual Non-AP Consumption

Month	AP Pumped energy for 2024-25 (Mu)	Energy Consumption (AP Loss @10.45%) upto 15.06.2024 and from 16.06.2024 (AP Loss @10.28%)	AP metered Sale (Mu)	Total AP Consumption (Mu)	Amount (Rs in Cr.) @Rs 6.55/unit upto 15.06.2024 and from 16.06.2024 @Rs 6.70/unit	Cumulative Total Rs. Cr.	Cumulative Total AP Consumption (MU)
March	953.76	855.72	9.25	864.97	579.53	9993.13	14967.03
TOTAL	16546.93	14841.55	125.48	14967.03	9993.13		



Comprehensive infrastructure details of PSPCL for AY 2024-25:

		Form-Details of Input	Infrastructu	re			
1	Parameters	Total	Covered during M&V audit	Verified by Auditor in Sample Check	Remarks (Source of data)		
i	Number of circles	21	21	21	CE/Planning		
ii	Number of divisions	104	104	104	CE/Planning		
iii	Number of sub-divisions	508	508	508	CE/Planning		
iv	Number of feeders	13658	13658	1450	Director/D Reports link		
V	Number of DTs	1249085+(1450+3) 66kv,33kv =1250538	1250538	12610	Director/D Reports link		
vi	Number of consumers	11008964	11008964	11008964	CE/Planning		
2	Parameters	66kV and above	33kV 11/22kV		LT		
a. i.	Number of conventional metered consumers	42	0	67711	8139501		
ii	Number of consumers with 'smart' meters	11	0	31588	1348995		
iii	Number of consumers with 'smart prepaid' meters	0	0	0	0		
iv	Number of consumers with 'AMR' meters	182	3	33640	3463		
V	Number of consumers with 'non-smart prepaid' meters	0	0	0	0		
vi	Number of unmetered consumers	0	0	0	1383828		



		Form-Details of Input	Infrastructu	re	
vii	Number of total consumers	235	3	132939	10875787
b.i.	Number of conventionally metered Distribution Transformers	0	0	24174	4499
ii	Number of DTs with communicable meters	1450	3	22908	3122
iii	Number of unmetered DTs	0	0	832938	361444
iv	Number of total Transformers	1450	3	880020	369065
c.i.	Number of metered feeders	181	4	13473	0
ii	Number of feeders with communicable meters	164	164 4		0
iii	Number of unmetered feeders	0	0	0	0
iv	Number of total feeders	181	4	13473	0
d.	Line length (ct km)	11765 km	50.7 +23(Idle)=73.7	263913	156484
e.	Length of Aerial Bunched Cables	0	0	1152.964	1607.467
f.	Length of Underground Cables	37.48	0	372.794	39.270
3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above (Inter-State)	Long-Term Conventional	27744.35	Includes input energy for franchisees	



		Form-Details of Input	Infrastructu	ire	
		Medium Conventional (unscheduled interchange)	-1115.38		value of unscheduled interchange energy is entered as the provision of the same has not provided in the Performa
		Short Term Conventional	10918.27		
		Banking	671.50		
		Long-Term Renewable energy	3505.98		
		Medium and Short-Term RE	0.00	Includes power from bilateral/ PX/ DEEP	
		Captive, open access input		Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.	
		Sale of surplus power	-827.63		
		Quantum of inter-state transmission loss	1636.61	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	40897.09	Based on data from Form 5	
		Power at state transmission boundary	39260.48		
ii	66kV and above (Intra-State)	Long-Term Conventional	35103.82		Power procured from intra state sources at different voltage levels



		Form-Details of Input	Infrastructure	
		Medium Conventional	NA	
		Short Term Conventional	NA	
		Banking	NA	
		Long-Term Renewable energy	2326.42	NRSE power procured from intra state sources at 66KV and above
		Medium and Short-Term RE		
		Captive, open access input		
		Sale of surplus power		
		Quantum of intra-state transmission loss	2335.219	
		Power procured from intra-state sources	37430.24	PSTCL
iii		Input in DISCOM wires network	74355.49	
iv	33 kV	Renewable Energy Procurement	17.36	
		Small capacity conventional/ biomass/ hydro plants Procurement	0.00	
		Captive, open access input	0.00	
V	11 kV	Renewable Energy Procurement	266.85	NRSE power procured from intra state sources at 11KV
		Small capacity conventional/ biomass/ hydro plants Procurement	0.00	PSTCL
		Sales Migration Input		
vi	LT	Renewable Energy Procurement	131.37	Roof Top Solar Energy



		Form-Details of Input	Infrastructu	ire	
		Sales Migration Input	-131.37		
vii	Energy Embedded within DISCOM wires network	Energy Embedded within DISCOM wires network	284.22		
viii	Total Energy Available/ Input	Total Energy Available/ Input	74639.71		
4	Voltage level	Energy Sales Particulars	MU	Reference	
		DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers	
	11KV/LT	Demand from open access, captive	0	Non DISCOM's sales	
i		Embedded generation used	0.00	Demand from embedded generation at LT level	
		Sale at 11KV/LT level	0.00		Voltage wise sale not available
		Quantum of 11KV/LT level losses	0.000		
		Energy Input at11 KV/LT level			
ii	33 kV Level	DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	



		Form-Details of Input	Infrastructu	ire	
		Embedded generation at 33 kV level used		Demand from embedded generation at 11kV level	
		Sales at 33 kV level	0.00		
		Quantum of Losses at 33 kV	0.000		
		Energy input at 33 kV level			
		DISCOM' consumers	65449.41	Include sales to consumers in franchisee areas, unmetered consumers	Planning sale
		Demand from open access, captive	10.283	Non DISCOM's sales	
iii	66>/66/33/11 / 0.44 KV	Embedded generation at 66 kV or below level	415.59	This is DISCOM and OA demand met via energy generated at same voltage level	
		Sales at 66/33/11/0.44 kV level	65459.69		
		Quantum of Losses at 66 kV>	9180.02	(interstate, Inc. BBMB+Intra state+ DISCOM)	
		Energy input at 66kV Level	74639.71		
iv	> 66 kV	DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered	



Form-Details of Input Infrastructure										
			consumers							
	Demand from open access, captive	0	Non DISCOM's sales							
	Cross border sale of energy	0								
	Sale at other DISCOMs	0								
	Banking	0								
	Energy input at > 66kV Level	3981.98								
	Sales at 66kV and above (EHV)	3981.98								
Total Energy R	equirement	78611.41								
Total Ener	gy Sales	65449.41								

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT				
ii	11KV				
iii	33 KV				
iv	66/33/11 / 0.44 KV	74639.71	65449.41	9190.30	12.31%
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT	0	0	0	
ii	11 Kv	0	0	0	
iii	33 kv	0	0	0	
iv	> 33 kv				



Form-Details of Input Infrastructure

Loss Estima	tion for DISCOM
T&D loss	13,162.00
D loss	9,190.17
T&D loss (%)	16.74%
D loss (%)	12.31%

(D losses/(Total Energy Requirement-Interstate transmission losses-intra state transmission losses)



1.17 Input energy purchased by PSPCL for baseline and assessment year

For the purpose of PAT Cycle VII (2018-19 to 2024-25), the input energy data for Punjab State Power Corporation Limited (PSPCL) reflects consistent growth in energy procurement and supply capability, supporting the increasing demand across its extensive distribution network

During PAT Cycle VII, PSPCL's net energy input at the DISCOM periphery increased from 54,037.64 MU in the Baseline Year (2018-19) to 74,639.71 MU in the Assessment Year (2024-25), reflecting rising consumer demand. Total energy billed grew from 47,043.42 MU to 65,449.41 MU during the same period, while distribution losses reduced from 12.94% to 12.31%, indicating improved network efficiency and operational performance.

Table 10:PSPCL Power purchase details

Particulars		Baseline Year	Assessment Year
Energy details	Unit	2018-19	2024-25
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded) In MU	Million kwh	54037.64	74639.71
Total Energy billed (is the Net energy billed, adjusted for energy traded) in MU	Million kwh	47043.42	65449.41
Distribution loss Details (MU)	Million kwh	6994.22	9190.30
Distribution loss Details (%)	%	12.94	12.31







1.18 Monthly Wise Energy scheduled for the FY 2024-25 (in MUs)

		Ener	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
1	OWN GENERATION		Final REA	Final REA	Final REA	Prov. REA									
1.1	THERMAL														
	I) GGSSTP, Ropar	Thermal	439.55	448.46	456.92	467.94	406.04	335.50	394.28	173.47	333.20	371.99	360.36	366.01	4553.7 2
	ii) GHTP, Lehra Mohhabat	Thermal	397.41	423.55	455.39	455.97	397.44	384.14	413.35	261.68	418.57	421.80	399.98	436.48	4865.7 6
	Total Thermal (Gross)		836.96	872.01	912.31	923.90	803.48	719.65	807.63	435.16	751.77	793.79	760.34	802.49	9419.4 8
1.2	Aux.&Transformation Losses														_
	GGSSTP	Thermal	36.00	42.68	41.82	47.70	36.10	31.29	37.91	19.41	32.93	37.96	33.66	35.44	432.89
	GHTP	Thermal	32.94	36.47	38.43	39.11	35.08	33.74	35.37	23.75	35.65	34.73	32.46	35.61	413.34
	Total Thermal Losses		68.94	79.15	80.24	86.81	71.19	65.03	73.28	43.16	68.57	72.69	66.12	71.05	846.23
1.3	GATP, Goindwal Sahib														
	GATP_Sch	Thermal	232.25	297.75	274.72	326.61	241.57	245.82	227.67	223.28	222.85	199.58	121.60	144.49	2758.1 9
	GATP_UI		0.18	0.31	0.25	0.07	-0.17	0.28	-0.72	-0.83	-1.05	0.00	0.00	0.00	-1.68
	Total GATP (Sch - UI)		232.07	297.44	274.46	326.54	241.74	245.55	228.39	224.11	223.91	199.58	121.60	144.49	2759.8 7
1.4	Net Thermal Generation (1.1-1.2+1.3)		1000.0 9	1090.2 9	1106.5 3	1163.6 3	974.04	900.16	962.75	616.11	907.10	920.67	815.82	875.93	11333. 12
1.5	HYDEL														
	I)Shanan	Hydro	51.38	74.36	76.59	73.58	74.48	60.59	29.64	17.11	9.49	6.46	6.57	32.42	512.66
	ii)UBDC	Hydro	25.86	41.36	48.25	56.19	46.87	48.26	4.28	3.21	18.21	8.99	15.96	21.52	338.95
	iii)Mukerian (MHP)	Hydro	14.14	105.07	119.13	128.93	128.49	147.06	145.19	135.67	136.13	133.01	62.56	71.43	1326.8 1
	iv)ASHP	Hydro	10.86	54.77	65.82	88.00	85.37	80.84	38.61	0.00	32.67	0.00	0.00	29.19	486.14
	v)RSD	Hydro	116.12	170.96	202.83	243.49	138.53	143.82	19.01	31.66	68.74	38.85	37.08	48.35	1259.4 4
	vi)Micro	Hydro	0.33	0.32	0.23	0.36	0.47	0.40	0.47	0.40	0.33	0.00	0.18	0.00	3.49
	Total Hydel (Gross)		218.68	446.85	512.86	590.55	474.21	480.97	237.21	188.04	265.58	187.30	122.34	202.91	3927.4 9
1.6	Aux.&Transformation Losses														, ,
	Shanan	Hydro	0.43	0.56	0.91	1.29	1.34	0.99	0.39	0.26	0.13	0.09	0.09	0.34	6.82



		Enei	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
NO.	UBDC	Hydro	0.17	0.24	0.26	0.37	0.25	0.26	0.05	0.06	0.17	0.11	0.13	0.15	2.21
	MHP	Hydro	0.30	1.55	1.65	1.88	1.78	2.05	1.99	2.05	2.06	1.92	0.98	1.10	19.30
	ASHP	Hydro	0.05	0.17	0.17	0.19	0.19	0.18	0.11	0.00	0.10	0.00	0.00	0.09	1.24
	RSPP	Hydro	0.39	0.57	0.68	0.81	0.46	0.48	0.06	0.11	0.26	0.58	0.58	0.64	5.60
	Micro	Hydro	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.00	0.01	0.00	0.14
	Total Hydro Losses		1.35	3.11	3.67	4.54	4.03	3.98	2.61	2.49	2.72	2.70	1.79	2.32	35.31
1.7	Net Hydel Generation (1.5-1.6)		217.34	443.75	509.18	586.01	470.18	476.99	234.60	185.55	262.86	184.60	120.55	200.59	3892.1 8
1.8	Total Net Own Generation (Thermal+Hydel) (1.4+1.7)		1217.4	1534.0 4	1615.7 1	1749.6 4	1444.2 1	1377.1 5	1197.3 4	801.65	1169.9 6	1105.2 7	936.37	1076.5 2	15225. 30
2	PSPCL share from BBMB														
	I)Bhakhra	Hydro	115.97	200.17	260.40	312.83	293.44	263.18	212.94	132.20	184.27	111.48	139.65	157.52	2384.0 6
	ii)Dehar	Hydro	95.19	163.81	168.52	167.51	140.51	147.90	87.47	51.75	35.84	30.06	25.32	61.30	1175.1 9
	iii)Pong	Hydro	5.49	24.12	24.69	28.59	33.73	42.90	39.64	33.65	31.67	27.11	12.87	14.51	318.98
2.1	Total (Gross)		216.65	388.10	453.62	508.93	467.67	453.98	340.05	217.60	251.79	168.66	177.85	233.34	3878.2 3
2.2	BBMB Inter State Transmission Losses		7.63	13.03	16.50	19.65	17.15	15.16	11.70	10.01	9.79	6.96	6.87	8.80	143.25
2.3	PSPCL share from BBMB (Net) (2.1 - 2.2)		209.02	375.07	437.12	489.27	450.53	438.82	328.35	207.58	241.99	161.70	170.97	224.54	3734.9 7
3	Total Net Generation (1.8+2.3)		1426.4 4	1909.1 1	2052.8	2238.9 1	1894.7 4	1815.9 7	1525.7 0	1009.2 4	1411.9 5	1266.9 7	1107.3 4	1301.0 6	18960.2 7
4	CENTRAL SECTOR POWER PURCHASE														
4.1	NHPC														
	Bairasiul	Hydro	28.02	49.15	32.60	24.88	28.22	24.87	12.64	7.47	4.73	5.74	5.11	27.99	251.42
	Salal	Hydro	76.02	113.62	126.91	130.86	131.83	110.02	49.76	22.82	13.52	11.30	14.06	38.97	839.69
	Tanakpur	Hydro	1.21	3.92	5.71	9.88	9.76	10.54	10.63	5.63	2.65	1.78	0.98	1.47	64.15
	Chamera-I	Hydro	20.51	33.41	31.24	32.77	34.36	18.84	7.23	5.11	4.28	3.73	4.28	11.21	206.97
	Chamera-II	Hydro	11.16	19.91	25.56	32.63	32.03	21.13	7.90	3.65	3.12	2.69	2.96	5.43	168.17



		Ener	gy sc	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr.	GENERATING STATION	Type of	Apr-	May-	Jun-	Jul-24	Aug-	Sep-	Oct-24	Nov-	Dec-	Jan-25	Feb-25	Mar-25	Total
No.	Chamera-III	Plant Hydro	24 5.63	24 11.59	24 15.50	20.10	24 19.69	24 13.59	5.06	24	24 1.87	1.68	1.55	2.58	101.26
	Uri	Hydro	31.08	32.09	32.07	33.46	32.10	31.10	9.50	5.87	5.60	5.39	5.24	32.81	256.32
	Uri-II	Hydro	12.87	12.98	17.05	19.16	17.77	15.18	3.82	2.68	2.59	2.45	2.62	12.76	121.93
	Dhauliganga	Hydro	3.71	12.97	16.11	26.32	28.09	26.63	10.35	4.73	2.96	2.38	1.98	2.97	139.19
	Dulhasti	Hydro	12.84	22.63	27.90	35.22	31.28	35.00	22.66	10.86	7.53	6.40	5.09	7.34	224.75
	Parbati-III	Hydro	1.42	5.55	6.81	11.87	13.75	10.27	3.18	1.57	1.05	0.81	0.74	1.41	58.43
	SEWA-II	Hydro	6.44	5.67	3.03	2.11	5.55	3.34	1.10	0.60	0.56	0.55	1.05	4.97	34.97
	Kishanganga	Hydro	0.00	0.00	4.18	10.84	7.81	4.79	0.63	0.00	0.00	0.00	0.00	0.00	28.25
	Total	,	210.90	323.49	344.66	390.11	392.24	325.29	144.46	73.39	50.46	44.92	45.65	149.92	2495.5
															0
4.2. 1	Nathpa Jhakri (SJVNL)	Hydro	27.89	89.91	129.16	156.87	153.25	133.21	55.26	30.26	22.44	20.13	16.88	21.71	856.99
4.2. 2	Rampur (SJVNL)	Hydro	4.32	13.68	20.89	26.54	26.52	23.24	8.96	4.62	3.43	3.04	2.58	3.32	141.13
4.3	Tehri(THDC)	Hydro	14.45	9.78	0.75	48.08	49.90	60.80	21.79	16.10	22.19	17.76	25.08	17.71	304.39
4.4	Koteshwar(THDC)	Hydro	5.13	3.74	0.33	15.63	15.53	16.86	5.95	4.50	6.11	5.19	7.89	6.24	93.09
4.5. 1	DVC RTPS 1&2	Thermal	73.93	80.55	92.07	101.70	121.43	140.09	150.40	116.56	149.42	139.67	152.01	189.26	1507.1 0
4.5. 2	DVC -Durgapur	Thermal	76.97	79.56	98.85	78.63	33.63	87.26	109.32	95.34	88.81	75.77	63.07	96.24	983.45
4.5. 3	DVC -BTPS	Thermal	112.45	114.64	106.38	99.19	87.37	105.64	93.96	86.98	107.73	113.72	109.00	96.18	1233.2 4
4.6	NTPC														
	Singrauli	Thermal	127.61	134.15	127.87	137.84	115.25	123.76	135.81	118.72	126.32	126.13	118.92	132.86	1525.2 3
	Rihand-I	Thermal	68.78	66.61	73.73	78.41	67.66	33.81	61.32	69.17	64.20	72.91	64.61	71.53	792.74
	Rihand-II	Thermal	56.90	70.37	66.74	77.40	74.79	71.44	71.46	67.88	70.73	71.53	64.41	71.01	834.64
	Rihand - III	Thermal	49.78	57.14	58.51	64.91	62.67	62.85	54.22	53.24	56.41	56.43	29.45	42.89	648.50
	Anta CR	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Anta G	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Anta R	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Anta L	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Auriya CR	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Auriya G	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Auriya R	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



		Ener	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
NO.	Auriya L	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dadri CR	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dadri G	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dadri R	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dadri L	Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Unchahar-I	Thermal	0.01	0.02	0.31	0.76	0.61	0.72	0.23	0.00	0.00	0.01	0.02	0.02	2.71
	Unchahar-II	Thermal	27.90	26.10	35.11	34.08	29.93	26.75	27.68	14.33	19.34	29.63	28.26	32.64	331.72
	Unchahar-III	Thermal	7.66	8.92	9.62	11.03	8.27	3.01	1.84	5.78	7.23	8.85	8.30	9.64	90.15
	Unchahar-IV	Thermal	0.01	0.07	1.24	3.28	3.11	3.17	0.97	0.00	0.01	0.06	0.05	0.16	12.14
	Jhajjar (JV)	Thermal	0.00	0.00	6.89	18.05	14.61	14.78	4.46	0.00	0.00	0.00	0.00	0.00	58.80
	Dadri (Th.)-II	Thermal	0.23	0.23	2.11	5.52	4.24	4.33	0.73	0.01	0.03	0.08	0.21	0.43	18.15
	Koldam HEP	Hydro	9.30	31.42	41.14	60.52	61.90	44.83	15.97	8.89	6.58	5.71	4.98	7.53	298.78
	Singrauli SHEP	Small Hydro	0.00	0.00	0.07	0.16	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
	Tanda Stage-II	Thermal	0.02	0.28	2.81	6.77	5.15	5.45	2.29	0.04	0.07	0.01	0.01	0.08	22.97
	Meja	Thermal	26.43	31.54	33.36	36.26	37.94	44.41	37.61	21.78	22.43	28.47	28.32	15.38	363.92
	Total		374.61	426.85	459.51	534.99	486.19	439.29	414.57	359.85	373.36	399.82	347.53	384.17	5000.7 5
4.7	NTPC(ER)														
	Kahal gaon-II (ER)	Thermal	76.56	75.94	78.06	74.76	63.19	50.49	75.77	61.73	59.42	77.22	73.75	81.11	848.01
	Total		76.56	75.94	78.06	74.76	63.19	50.49	75.77	61.73	59.42	77.22	73.75	81.11	848.01
4.8	NPC														
	NAPP	Nuclear	32.56	32.65	35.23	44.38	44.48	43.09	37.12	33.22	35.11	35.63	30.65	21.29	425.41
	RAPP-B	Nuclear	29.02	31.85	29.29	33.41	61.38	34.53	54.68	52.74	32.82	66.89	47.39	61.55	535.56
	RAPP-C	Nuclear	22.08	31.42	38.81	52.95	53.26	51.14	35.63	30.66	32.23	29.85	22.35	15.35	415.72
	Total		83.66	95.92	103.32	130.74	159.12	128.75	127.43	116.61	100.16	132.38	100.39	98.19	1376.6 9
4.9	Additional Unallocated allocation														
	Ramagundam STPS: Stage-1 & 2	Thermal				7.55	11.54	5.79	0.00	0.00	0.00	0.00	0.00	0.00	24.88
	Ramagundam STPS: Stage-3	Thermal				2.43	3.64	1.68	0.00	0.00	0.00	0.00	0.00	0.00	7.74
	Talcher STPS: Stage-2	Thermal				3.26	7.53	3.91	0.00	0.00	0.00	0.00	0.00	0.00	14.70
	Simhadri :Stage-2	Thermal				1.25	3.15	1.82	0.00	0.00	0.00	0.00	0.00	0.00	6.21
	Kudgi STPS	Thermal				6.96	12.86	7.19	0.00	0.00	0.00	0.00	0.00	0.00	27.02
	Telangana STPP	Thermal			97.93	87.78	85.74	85.04	44.10	0.00	0.00	0.00	0.00	0.00	400.59



		Ener	gy sc	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
NO.	Vallur TPS	Thermal	24	24	24	4.52	6.43	3.12	0.00	0.00	0.00	0.00	0.00	0.00	14.07
	NLC TPS-II: Stage-1	Thermal				1.38	2.04	1.22	0.00	0.00	0.00	0.00	0.00	0.00	4.63
	NLC TPS-II: Stage-2	Thermal				1.98	4.15	1.47	0.00	0.00	0.00	0.00	0.00	0.00	7.59
	NLC TPS-I: Expansion	Thermal				2.70	4.99	2.04	0.00	0.00	0.00	0.00	0.00	0.00	9.73
	NLC TPS-II: Expansion	Thermal				0.87	0.90	0.65	0.00	0.00	0.00	0.00	0.00	0.00	2.42
	NNTPS	Thermal				0.16	0.32	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.73
	NTPL: Tuticorin	Thermal				4.49	7.20	3.03	0.00	0.00	0.00	0.00	0.00	0.00	14.71
	NPCIL MAPS Kalpakam	Nuclear				0.38	0.71	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.43
	NPCIL KAIGA GS: Stage-1 & 2	Nuclear				2.93	5.62	2.69	0.00	0.00	0.00	0.00	0.00	0.00	11.24
	NPCIL KAIGA GS: Stage-3 & 4	Nuclear				3.26	6.32	3.05	0.00	0.00	0.00	0.00	0.00	0.00	12.62
	NPCIL KKNNP	Nuclear				2.41	4.67	2.27	0.00	0.00	0.00	0.00	0.00	0.00	9.34
	Total		0.00	0.00	97.93	134.28	167.79	125.57	44.10	0.00	0.00	0.00	0.00	0.00	569.67
4.10	Central Sector Purchase (4.1+4.2+4.3+4.4+4.4.1+4.5+4.6+4.7+4.8+ 4.9)		1060.8 7	1314.0 5	1531.9 2	1791.5 5	1756.1 6	1636.5 0	1252.0 0	965.95	983.53	1029.6 2	943.82	1144.0 5	15410. 01
5	PURCHASE THROUGH TRADERS														
5.1	Purchase through Traders / IPPs (LONG TERM)														
	NVVN(Bundled Power)														
	NVVN Bundled Coal power		20.20	22.15	22.19	22.04	20.24	17.81	19.03	19.32	19.24	21.23	18.49	21.68	243.61
	NVVN Bundled Solar Power		4.77	5.44	5.34	4.49	3.39	4.83	4.12	3.90	3.38	3.82	4.05	4.78	52.29
	NVVN Bundled power		24.97	27.58	27.53	26.53	23.63	22.64	23.15	23.22	22.61	25.05	22.54	26.46	295.91
	SECI Hybrid Power PSA (Solar)	Solar	127.91	141.87	133.22	127.25	96.48	119.87	116.31	99.54	94.22	103.93	101.95	137.70	1400.2 6
	NHPC – M/s Avaada Sunrays Energy Private Limited	Solar	66.00	69.53	65.34	65.46	53.40	63.01	64.56	56.86	53.47	58.18	55.71	70.40	741.92
	SECI Solar Power	Solar	5.36	5.89	5.57	5.41	4.19	4.93	4.37	4.05	4.14	4.41	4.10	5.01	57.44
	Total Solar Power		199.28	217.29	204.13	198.12	154.07	187.81	185.24	160.45	151.84	166.52	161.76	213.11	2199.6 2
	Wind Power														
	SECI Wind Power	Wind	79.25	111.53	105.43	96.99	105.13	72.45	34.58	38.39	84.46	66.42	53.83	64.68	913.14
	SECI Hybrid Power PSA (Wind)	Wind	26.09	32.18	30.92	30.92	36.33	25.92	25.98	22.69	31.14	26.99	25.36	26.42	340.93
	Total Wind Power		105.33	143.71	136.35	127.90	141.45	98.37	60.56	61.09	115.60	93.41	79.19	91.10	1254.0 7



		Ene	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
	PTC Tala(Hydro)	Hydro	0.00	0.00	0.87	6.29	6.64	7.00	2.98	0.00	0.00	0.00	0.00	0.00	23.79
	Pragati-III(Bawana)CCGT	Gas	18.80	19.40	19.42	20.32	19.13	13.29	15.26	7.98	0.99	6.44	18.68	18.16	177.86
	MALANA-2 (PTC)	Hydro	12.83	39.12	44.96	57.73	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.05
	KARCHAM (PTC)	Hydro	27.66	106.99	142.12	159.68	157.13	118.95	52.45	30.71	23.25	20.52	17.15	21.87	878.48
	SASAN Ultra Mega Project	Thermal	386.69	384.68	388.47	325.72	366.42	332.41	377.84	376.92	380.38	353.32	331.03	361.53	4365.4 0
	TPCL Mundra	Thermal	219.99	239.07	236.39	246.82	197.32	4.37	220.34	227.66	268.54	271.85	245.40	234.18	2611.9 3
	Talwandi Sabo TPP (TSPL)														
	TSPL_Sch	Thermal	926.36	1072.1 3	1002.3 4	1044.0 7	763.39	1066.0 4	848.24	595.34	583.09	659.38	834.37	871.48	10266. 23
	TSPL_UI		3.60	4.72	4.30	5.15	2.67	4.62	2.63	1.05	1.00	0.00	0.00	0.00	29.74
	Total TSPL (Sch - UI)		922.76	1067.4 1	998.04	1038.9 2	760.72	1061.4 3	845.61	594.29	582.09	659.38	834.37	871.48	10236. 49
	RAJPURA TPP (NPL)														
	NPL_Sch	Thermal	819.61	918.81	900.20	939.48	828.64	819.29	868.65	657.84	764.36	757.35	548.01	818.32	9640.5 5
	NPL_UI		-3.57	2.45	2.47	1.35	0.62	-0.33	-2.12	-2.67	0.32	0.00	0.00	0.00	-1.48
	Total NPL (Sch - UI)		823.18	916.36	897.73	938.13	828.01	819.62	870.78	660.51	764.04	757.35	548.01	818.32	9642.0 3
	Total Long Term		2741.4 9	3161.6 1	3096.0 1	3146.1 5	2654.9 2	2665.8 8	2654.2 1	2142.8 2	2309.3 5	2353.8 4	2258.1 3	2656.2 0	31840. 61
5.2	Purchase through Traders / IPPs (SHORT TERM)														
	NVVN		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PTC		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Power Purchased by PSPCL through Exchange														
Α	Conventional Energy							•		•			1	•	
	PTC		159.34	621.73	1333.7 1	983.76	1107.1 5	840.16	731.02	396.96	623.26	1026.5 3	979.76	1008.7 4	9812.1 1
В	Green Energy														
	PTC		8.28	83.63	259.53	442.98	230.70	23.51	30.13	17.05	7.44	1.19	0.61	1.12	1106.1 6
	Total (A+B)		167.62	705.36	1593.2 4	1426.7 4	1337.8 5	863.67	761.15	414.01	630.69	1027.7 1	980.37	1009.8 6	10918. 27
	NRSE Power														



		Ener	gy sc	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
NO.	PTC	Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	HPSEB		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Short Term		167.62	705.36	1593.2	1426.7	1337.8	863.67	761.15	414.01	630.69	1027.7	980.37	1009.8	10918.
					4	4	5					1		6	27
5.3	Total Trading (5.1+5.2)		2909.1 1	3866.9 7	4689.2 5	4572.8 9	3992.7 8	3529.5 5	3415.3 6	2556.8 3	2940.0 4	3381.5 5	3238.5 0	3666.0 6	42758. 89
6	BANKING														
6.1	Banking Direct from Utilities (From +ve)														
	Andhra Pradesh (Through NAME-OTC)		0.00	14.40	43.62	93.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151.26
	MPPMCL		0.00	12.59	28.09	269.16	470.36	446.40	0.00	0.00	0.00	0.00	0.00	0.00	1226.6
	KSEBL, Kerala		0.00	98.85	12.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.08
	PCKL, Karnatka		0.00	0.00	194.60	408.66	407.60	387.48	0.00	0.00	0.00	0.00	0.00	0.00	1398.3
	MSEDCL		0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60
	Total		0.00	125.84	278.54	771.05	887.55	833.89	0.00	0.00	0.00	0.00	0.00	0.00	2896.8 7
6.2	Banking through Traders (From +ve)														
	NVVNL		0.00	0.00	54.76	80.84	0.00	78.23	26.08	0.00	0.00	0.00	0.00	0.00	239.90
	IVPL		0.00	0.00	0.00	0.00	22.89	22.12	0.03	0.00	0.00	0.00	0.00	0.00	45.05
	Manikaran/MPL		0.00	0.00	0.00	114.17	327.81	223.87	0.00	0.00	0.00	0.00	0.00	0.00	665.85
	APPCPL		0.00	0.00	66.63	286.23	190.95	210.57	16.50	0.00	0.00	0.00	0.00	0.00	770.88
	PTC		0.00	0.00	98.17	547.80	332.61	249.84	0.00	0.00	0.00	0.00	0.00	0.00	1228.4 2
	Total		0.00	0.00	219.56	1029.0 3	874.26	784.63	42.61	0.00	0.00	0.00	0.00	0.00	2950.1 0
	Total Banking From (+ve) (6.1+6.2))		0.00	125.84	498.10	1800.0 8	1761.8 1	1618.5 2	42.61	0.00	0.00	0.00	0.00	0.00	5846.9 7
6.3	Banking Direct to Utilities (To -ve)					_	-	_							'
	Andhra Pradesh (Through NAME-OTC)		-82.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.31	-20.13	- 105.24
	TANGEDCO, Tamilnadu		- 146.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	146.85
	PCKL, Karnatka		-	-28.80	0.00	0.00	0.00	0.00	0.00	-36.00	-37.20	-	-	-	-



		Ener	gy sc	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr-	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov-	Dec- 24	Jan-25	Feb-25	Mar-25	Total
			247.70									260.40	357.83	395.05	1362.9 8
	JKPCL (J&K)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-72.80	-72.80
	KSEBL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-62.25	-62.25
	CSPDCL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	- 144.00	- 144.00
	TSPCC, Telangana		-42.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-42.50
	MSEDCL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.27	-10.27
	MPPTCL/MPSEB/MP/MPPMCL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	- 134.86	- 278.71	- 278.69	- 251.75	-0.03	- 944.03
	Total		- 519.85	-28.80	0.00	0.00	0.00	0.00	0.00	- 170.86	- 315.91	539.09	- 611.89	- 704.52	2890.9 3
6.4	Banking through Traders (To -ve)														
	PTC		0.00	0.00	0.00	0.00	0.00	0.00	-23.70	199.04	- 329.95	405.62	395.57	- 194.13	- 1548.0 1
	NVVNL		-72.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-72.00
	SAPL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-68.40	-68.40
	APPCPL		- 127.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.28	-33.48	-36.96	140.03	- 343.14
	Manikarn(MPL)		-52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-6.87	-13.73	0.00	- 179.80	- 253.00
	Total		- 251.99	0.00	0.00	0.00	0.00	0.00	-23.70	199.04	342.10	452.83	432.53	582.36	- 2284.5 5
	Total Banking To (-ve) (6.3+6.4)		- 771.84	-28.80	0.00	0.00	0.00	0.00	-23.70	369.90	- 658.01	991.92	- 1044.4 2	- 1286.8 9	- 5175.4 7
6.5	Total Net Banking (6.1+6.2+6.3+6.4)		- 771.84	97.04	498.10	1800.0 8	1761.8 1	1618.5 2	18.91	- 369.90	- 658.01	991.92	- 1044.4 2	- 1286.8 9	671.50
7	PURCHASE WITHIN PUNJAB (NRSE & PEDA)														
	Short Term Purchase within Punjab		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Long Term Purchase within Punjab														



		Ener	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
NO.	At 11 KV	Fiant	14.96	26.80	23.95	32.39	32.91	30.64	21.61	8.64	20.36	9.51	20.54	24.55	266.85
	At 33 KV		8.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.18	3.19	2.25	1.30	17.36
	At 66 KV		231.49	165.51	140.21	147.44	136.41	132.27	150.37	102.59	153.88	168.17	179.05	203.47	1910.8 6
	At 132 KV and above		39.97	40.10	38.46	31.77	29.48	30.53	40.20	28.71	30.27	32.43	32.58	41.06	415.56
	Total long Term Purchase within Punjab		294.86	232.41	202.62	211.61	198.79	193.44	212.18	139.94	206.69	213.30	234.43	270.38	2610.6 4
	Total Purchase within Punjab (Long & Short)		294.86	232.41	202.62	211.61	198.79	193.44	212.18	139.94	206.69	213.30	234.43	270.38	2610.6 4
8	Unscheduled Interchange		-54.15	-73.31	108.28	-92.31	- 136.67	- 126.07	-81.41	-67.87	-68.73	-56.36	- 105.85	127.13	- 1098.1 2
9	Open Access Intra State UI (Import) Non consumer (Railway)		-13.40	-1.58	-1.22	-2.04	0.93	0.05	0.00	0.00	0.00	0.00	0.00	0.00	-17.25
10	GROSS POWER PURCHASE (4.10+5.3+6.5+7+8+9)		3425.4 5	5435.5 8	6812.3 9	8281.7 8	7573.8 1	6851.9 9	4817.0 5	3224.9 5	3403.5 1	3576.1 9	3266.4 8	3666.4 8	60335. 65
11	Interstate Transmission Losses on Purchase		67.54	99.52	159.09	220.85	203.52	149.82	93.92	90.99	89.73	112.08	98.87	107.45	1493.36
	% Inter state Transmission Losses		3.52%	3.36%	3.64%	3.86%	3.67%	3.34%	3.44%	4.60%	3.89%	4.13%	3.86%	3.77%	3.73%
12	NET POWER PURCHASE (10-11)		3357.9 1	5336.0 7	6653.3 0	8060.9	7370.2 9	6702.1 7	4723.1 3	3133.9 6	3313.7 9	3464.1 1	3167.6 1	3559.0 3	58842. 29
13	Sale by PSPCL														
13.1	Sale by PSPCL Thru Exchange														
	PTC		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GMR		- 213.85	- 128.46	-49.49	-30.37	- 140.31	-91.37	-33.80	-12.32	-9.05	-0.76	-1.28	-5.74	- 716.80
	Total		- 213.85	- 128.46	-49.49	-30.37	- 140.31	-91.37	-33.80	-12.32	-9.05	-0.76	-1.28	-5.74	- 716.80
13.2	Sale by PSPCL Thru Traders/Short Term														
	PTC		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



		Enei	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr.	GENERATING STATION	Type of	Apr-	May- 24	Jun- 24	Jul-24	Aug- 24	Sep-	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
No.	Total	Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Sale by PSPCL (13.1+13.2)		213.85	128.46	-49.49	-30.37	140.31	-91.37	-33.80	-12.32	-9.05	-0.76	-1.28	-5.74	716.80
14	Royality/Free Share to HP/RSD share														
	Shanan Royalty		-6.64	-6.17	-5.64	-5.67	-6.67	-5.64	-5.67	-2.64	-1.18	-1.14	-1.12	-4.68	-52.86
	RSD Share to HP		-3.16	-8.60	-9.51	-11.73	-5.02	-7.03	-3.33	-1.30	-3.22	-1.92	-1.78	-2.00	-58.61
	Total		-9.80	-14.77	-15.15	-17.41	-11.68	-12.67	-9.00	-3.94	-4.40	-3.06	-2.90	-6.68	- 111.47
15	Intra State UI Injection by Open Access Generators		0.00	0.18	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
16	Intra State UI Drawl by Open Access Consumers		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	2% Energy injected by NRSE OA Generators in lieu of Transmission & wheeling Charges		0.12	0.06	0.03	0.03	0.03	0.03	0.01	0.00	0.01	0.00	0.04	0.06	0.42
18	NET ENERGY SCHEDULED FOR PSPCL (3+12+13+14+15+16+17)		4560.8 2	7102.1 9	8641.5 6	10252. 10	9113.0 7	8414.1	6206.0 3	4126.9 4	4712.3 0	4727.2 6	4270.8 2	4847.7	76974.9 3
19	Open Access (PURCHASE) Gross		26.73	34.18	36.25	35.37	37.04	35.22	36.97	46.98	32.90	30.51	30.67	37.40	420.24
	Open Access Inter State Transmission Losses		0.95	1.14	1.25	1.30	1.32	1.12	1.26	1.81	1.28	1.23	1.19	1.47	15.32
	Open Access (PURCHASE) Net		25.78	33.04	35.00	34.06	35.72	34.10	35.71	45.18	31.63	29.29	29.48	35.93	404.92
20	Open Access (SALE)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Open Access Transactions within State (Wheeling) Open Access Injection		3.43	0.24	0.96	1.44	1.48	1.47	0.40	0.00	2.03	2.72	2.48	1.76	18.43



		Ener	gy so	hedu	led fo	r the	FY 20	24-25	(in M	Us)					
Sr. No.	GENERATING STATION	Type of Plant	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	Oct-24	Nov- 24	Dec- 24	Jan-25	Feb-25	Mar-25	Total
22	NET ENERGY SCHEDULED FOR PUNJAB STATE (18+19+20+21)		4590.0 4	7135.4 7	8677.5 1	10287. 60	9150.2 8	8449.7 1	6242.1 4	4172.1 2	4745.9 6	4759.2 6	4302.7 8	4885.4 3	77398.2 8
23	POWER CUT IMPOSED		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	UNRESTRICTED REQUIREMENT of PSPCL (18+23)		4560.8 2	7102.1 9	8641.5 6	10252. 10	9113.0 7	8414.1 3	6206.0 3	4126.9 4	4712.3 0	4727.2 6	4270.8 2	4847.7 3	76974.9 3
25	UNRESTRICTED REQUIREMENT of PUNJAB STATE (22+23)		4590. 04	7135. 47	8677. 51	10287 .60	9150. 28	8449. 71	6242. 14	4172. 12	4745. 96	4759. 26	4302. 78	4885. 43	77398. 28



1.19 Quater wise Energy Analysis for AY 2024-25

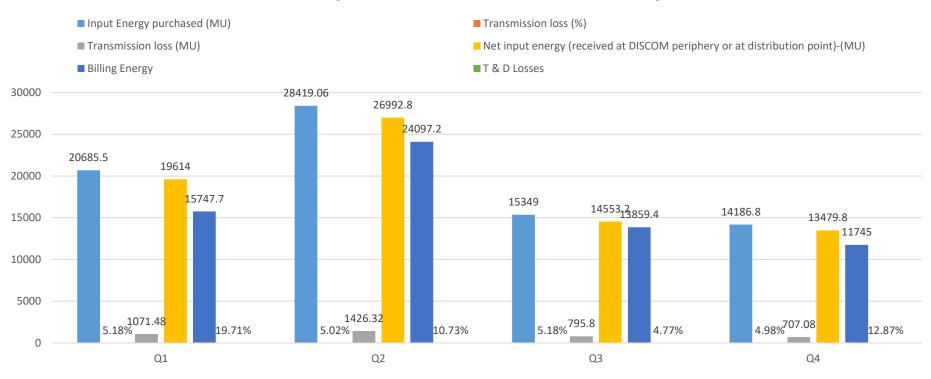
During Assessment Year 2024–25, PSPCL recorded quarterly input energy purchases ranging from 14186.8 MU to 28,149.06 MU. Transmission losses remained consistent between 4.98% and 5.18% across quarters. Net input energy received at the DISCOM periphery totaled between 13,479.8 MU and 26,992.8 MU. T&D loss performance showed improvement across the quarters, with the lowest loss recorded at 4.77% in Q3 and an overall positive trend toward efficient network operations.

Table 11:Quater wise energy review for AY- 2024-25

	AY 202	4-25		
Particulars	Q1	Q2	Q3	Q4
Input Energy purchased (MU)	20685.5	28419.06	15349	14186.8
Transmission loss (%)	5.18%	5.02%	5.18%	4.98%
Transmission loss (MU)	1071.48	1426.32	795.8	707.08
Net input energy (received at DISCOM periphery or at distribution point)-(MU)	19614	26992.8	14553.2	13479.8
Billing Energy	15747.7	24097.2	13859.4	11745
T & D Losses	19.71%	10.73%	4.77%	12.87%



Quarterly Assessment Year 2024-25 Analysis



Graphs 4:Quarterly Assessment Year 2024-25 Analysis



1.20 Key Operational Parameters of PSPCL (Assessment Year 2024–25)

Punjab State Power Corporation Limited (PSPCL) operates one of the largest electricity distribution networks in the country, serving a wide and diverse consumer base. As of the Assessment Year 2024–25, PSPCL's distribution system spans 21 Circles, with 104 Divisions and 508 Sub-Divisions, 13,658 feeders, and 12.5 lakh Distribution Transformers (DTs), serving over 1.10 crore consumers across Punjab under its management.

Table 12:Technical Details of PSPCL

	AY 2024-25	
Parameters	Total	Remarks (Source of data)
Number of Circles	21	CE/Planning
Number of Divisions	104	CE/Planning
Number of Sub-Divisions	508	CE/Planning
Number of Feeders	13658	Director/D Reports link
Number of DTs	1250538	Director/D Reports link
Number of Consumers	11008964	CE/Planning

The type of consumer observed in different categories in each and every circle which one tabulated below:

Categories of Consumers	Subcategories of Consumers
A. Residential	Below Poverty Line (BPL)
	2. Domestic
B. Agricultural	1. Agricultural
	Agriculture allied services
C. Commercial / industrial LT	Nondomestic. /Commercial
	LT (Low tension) Industrial
D. HT (Industrial/Commercial/	High tension (Industrial/Commercial/Residential
Others)	/Others)
E. Others	1. Streetlight
	2. Water Works
	LV Info. Tech. Industries
	Temporary Connection (different purpose)



Subsidy Details for the PSPCL

During **FY 2024–25**, PSPCL provided subsidized power to Residential, Agriculture, and Commercial/Industrial-LT categories, with total subsidy billed at ₹20,799.16 crore. Against this, the State Government has released ₹16,892.16 crore, leaving an outstanding balance of ₹3,907 crore to be received.

Brief about Subsidy Details of PSPCL (FY 2024–25)

During FY 2024–25, PSPCL provided subsidized electricity to multiple consumer categories, including Residential, Agriculture, and Commercial/Industrial-LT segments. The total billed energy during the year was 65449.41 million units (kWh).

The total subsidy due from the State Government for the year amounts to ₹20,799.16 crore. Against this, ₹16,892.16 crore has been released by the Government of Punjab as of the reporting date. The balance subsidy yet to be received stands at ₹3,907 crore.

Category-wise highlights:

Residential Consumers: Subsidy of ₹8,284.57 crore billed, of which ₹6,223.70 crore has been received, leaving a balance of ₹2,060.87 crore.

Agriculture Sector: Subsidy of ₹9,977.32 crore billed, ₹8,491.47 crore received, balance ₹1,485.85 crore.

Commercial/Industrial LT: Subsidy of ₹2,537.27 crore billed, ₹2,176.99 crore received, balance ₹360.28 crore.

PSPCL continues to maintain transparency in subsidy accounting and has complied with all required reporting to the State Government and regulatory bodies for PAT Cycle VII and UDAY monitoring. The reconciliation of the outstanding balance is in progress with the Government of Punjab.



Table 13: Subsidy Details of PSPCL for FY 2024-25

Consumer Category	Metered Billed Energy (kWh)	Unmetered Billed Energy (kWh)	Total Billed Energy (kWh)	Subsidized Metered Energy (kWh)	Subsidized Unmetered Energy (kWh)	Total Subsidized Energy (kWh)	Applicable Rate of Subsidy	Unmete red Energy Rate	Subsidy Due Metered (Rs. Cr.)	Subsidy Due Unmetered (Rs. Cr.)	Total Subsidy Due (Rs. Cr.)	Subsidy Claimed (Rs. Cr.)	Subsidy Received (Rs. Cr.)	Balance Subsidy (Rs. Cr.)
Residential	2012497986 0.00	-	2012497 9860.00	165662209 11	-	165662209 11	Rs. 2.50 to Rs. 7.15 per KWh	-	8284.57	-	8284.57	8284.57	6223.70	2060.87
Agriculture	1254670000. 00	148415562 97.17	1496702 3297.17	125480000	148177300 00	149432100 00	Rs.6.55 per KW upto 15.06.2024 & from 16.06.2024 at the rate 6.70 per KW	-	83.69	9893.62	9977.31	9977.32	8491.47	1485.85
Commercial/ Industrial-LT	2922525796 0.00	-	2922525 7960.00	246436135 29	-	246436135 29	Rs 0.15 to 1.37 per KVA	-	2537.27	-	2537.27	2537.27	2176.99	360.28
Commercial/ Industrial-HT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (Specify) WW	876588882.8 3	-	1132148 882.80	-	-	-	-	-	-	-	-	-	-	-
Total	5035229370 2.83	148415562 97.17	6544941 0000.00	413353144 40	148177300 00	561530444 40	-	-	10905.53	9893.62	20799.15	20799.1 6	16892.1 6	3907.00



Loss Reduction Schemes Implemented by PSPCL

Over the past four years (from 2021-22 to 2024-25), Punjab State Power Corporation Limited (PSPCL) has actively implemented multiple Loss Reduction and Energy Efficiency schemes across its distribution network, as part of its DSM (Demand Side Management) and PAT obligations. These initiatives have contributed to tangible improvements in reducing technical losses, enhancing metering accuracy, promoting energy-efficient appliances, and improving billing efficiency.

Key measures undertaken include:

Meter Shifting: A major initiative by PSPCL involved shifting nearly 90,000 consumer meters outside consumer premises across multiple phases (2021-22 to 2024-25). This action improved consumer awareness, reduced meter tampering, enabled better meter reading accuracy, and promoted energy-efficient behavior at the household level—leading to verified loss reduction.

Installation of Smart Meters: Under DSM initiatives, PSPCL successfully installed over 13.70 lakh Smart Meters (46657 in 2021-22, 45252 in 2022-23, 530530 in 2023-24, and 745058 in 2024-25). Smart metering contributed to improved accuracy, real-time monitoring, and significant reduction in energy theft.

Distribution of LED Bulbs: Under KLBY scheme and energy-saving drives, PSPCL distributed over 15 lakh LED bulbs to consumers, resulting in load reduction and improved power factor at the consumer end.

Replacement of Conventional Lighting with LED: Extensive replacement of high-wattage streetlights, flood lights, and industrial lighting with energy-efficient LED lighting was carried out across various PSPCL plants (GHTP Lehra Mohabbat, GGSSTP Ropar, Mukerian Hydel, ASHP, BBMB etc.), significantly reducing lighting load on the system.

Energy-Efficient Transformers: PSPCL also installed (IS-1180) ISI marked EEL-2 (amendment-4)/Star-2 (New) Level 2 energy-efficient transformers, contributing to technical loss reduction across distribution circles.

Process Improvements: Updated billing methodologies for AP Kandi mixed feeders and re-categorization of AP and non-AP loads have further improved reported system efficiency and accuracy.

These initiatives reflect PSPCL's strong commitment toward continuous loss reduction, energy efficiency, and supporting national targets under the PAT Scheme and UDAY scheme. The verified cumulative annual energy savings from these projects run into several lakh units per year, leading to long-term operational efficiency gains for the DISCOM.



Under the Revamped Distribution Sector Scheme (RDSS), Punjab State Power Corporation Limited (PSPCL) is actively working towards infrastructure strengthening, feeder segregation, feeder bifurcation /Augmentation of HT/LT lines/Augmentation of Distribution Transformers (DTs) & installation of New DTs which results in loss reduction, and reliability improvement across the State. The approved project cost for PSPCL under RDSS is Rs. 3816.13 crore (Gol Grand No. 06282001).

As of 31st March 2025, significant physical progress has been achieved across various components.

PSPCL remain committed to timely execution of RDSS targets to enhance distribution system performance, reduce AT&C losses and improve power quality and reliability for its consumers.



Measuring Equipment and Calibration Instrument





National Accreditation Board for **Testing and Calibration Laboratories**

NABL

CERTIFICATE OF ACCREDITATION

M.E. LABORATORY, PSPCL

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

CHUGITTI CHOWK, PATHANKOT ROAD, JALANDHAR, PUNJAB, INDIA

in the field of

TESTING

Certificate Number:

TC-6199 30/08/2023

Issue Date:

Valid Until:

29/08/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website waw,aubl-india.org)

Name of Legal Entity: PUNJAB STATE POWER CORPORATION LIMITED

Signed for and on behalf of NABL

N. Venkateswaran Chief Executive Officer





FORM A

(Form — A) PERFORMANCE ASSESSMENT DOCUM	ENT	
(To be filled by the designated consumer)		
Name of designated consumer	Punjab State Power Corpo (PSPCL)	oration Limited
Registration number	DIS0014PB	
Sector	Power (DISCOM)	
Sub-sector	Electricity Distribution Con	npany (DISCOM)
Accredited energy auditor	Namdhari Eco Energies P	vt Ltd
Name of the Empanelled Accredited Energy Auditor Firm	Mr. Bali Singh-AEA-206	
Registration number of Firm	EmAEA – 57 Number in B	EE list

List of documents submitted	Status	Date of submission
Baseline data (2018-19)	Submitted	27.05.2021
Form I (2021-22)	Submitted	07.02.2023
Form I (2022-23)	Submitted	16.08.2023
Form I (2023-24)	Submitted	23.8.2024
Form 2	Submitted/Not submitted	
Form 3	Submitted	30.06.2025

Specific energy consumption	Value	Unit
Baseline T&D losses (%) as notified	12.94	%age of transmission &distribution losses
Net Input Energy during (baseline) as notified	54,037.64	Million Units
Target T&D losses (%) for assessment year FY 2024-25 as per revised gazette	12.40	%age of transmission &distribution losses
Difference of Baseline T&D Loss and Target as notified	0.09	%age of transmission &distribution losses
Normalised T&D Loss (Achieved in the target year)	12.31	%age of transmission &distribution losses
Energy savings certificates to be <u>issued</u> or deficit	4182.51	Escrt= [(C24-C26) *C23] *0.86



Energy Efficiency Project implemented during (2021-22 to 2024-25)

S,No.	Implemented						
	Project	Year of Implementation	Annual Energy Savings in Lakh KWH	Annual Energy Saving in toe*	Annual Energy Consumption (before) in Lakh KWH	Investment (in Crores)	Remarks
1	In FY 2021-22, 31057 meters were shifted outside consumer premises enabling enhanced monitoring and increasing consumer awareness. This strategic relocation of meters led to a reduction in electricity theft and increasing billing.	2021-22	90.7	779.880	108.84	15.53 Cr. (While considering the investment of @ Rs. 5000/- per meter for shifting outside consumer premises)	Assuming Saving of 100 Watt per household. While considering 8 hours of consumption per day, the total saving from 31057 household is 90.70 LUs.
2	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 46657 no.	2021-22	83.98	722.120	2799.42		Assuming Avg 6000 Kwh/year per smart meter and 3% saving from improved



S,No.	Implemented						
	of Smart meters across various consumer categories.						metering accuracy & theft detection.
3	Distribution of 1175545 No. of 9W LEDs among consumers of SC, BC, BPL categories under KLBY Scheme & further extended to General categories.	2021-22	1750.62	15052.623	2059.55	7.071 Cr	Energy consumption is calculated by considering 8 hrs per day for 365 days of working of lights.
4	In FY 2022-23, 44958 meters were shifted outside consumer premises enabling enhanced monitoring and increasing consumer awareness. This strategic relocation of meters led to a reduction in electricity theft and increasing billing.	2022-23	131.28	1128.805	157.53	22.47 Cr. (While considering the investment of @ Rs. 5000/- per meter for shifting outside consumer premises)	household. While



S,No.	Implemented						
5	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 45252 no. of Smart meters across various consumer categories.	2022-23	81.45	700.375	2715.12		Assuming Avg 6000 Kwh/year per smart meter and 3% saving from improved metering accuracy & theft detection.
6	Energy Efficient (Level 2 efficiency) transformers installed.	2022-23	1.78	15.305		Rs. 2.4 Cr.	
7	Replacement of Flood Lights into LED Lights at Nakkian Power House.	2022-23	0.87	7.481		Rs. 0.03 Cr.	
8	In FY 2023-24, 8968 meters were shifted outside consumer premises enabling enhanced monitoring and increasing consumer awareness. This strategic relocation of meters led to a	2023-24	26.19	225.193	31.42	4.48 Cr. (While considering the investment of @ Rs. 5000/- per meter for shifting outside consumer premises)	Assuming Saving of 100 Watt per household. While considering 8 hours of consumption per day, the total saving from 8968 household is 26.19 LUs.



S,No.	Implemented						
	reduction in electricity theft and increasing billing.						
9	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 530530 no. of Smart meters across various consumer categories.	2023-24	954.95	8211.092	31831.8		Assuming Avg 6000 Kwh/year per smart meter and 3% saving from improved metering accuracy & theft detection.
10	Replacement of all types of 810 Nos tube lights below 100W with 18W high efficiency LED tube lights, 210 nos. conventional 125 W tubes with 210 nos 30 W LED Lights, 35 Nos 250 W flood light with 35 nos. flood light 50 W,	2023-24	3.241	27.868	4.19	0.121	All lights installed under Power House at RSD Sahpurkandi, ASHP PH- II,Nakkian,Shanan Power House Joginder Nagar., UBDC Hydel Project Malikpur.



S,No.	Implemented						
	40 no. (30 no 400						
	W & 10 no. parking						
	light 100 W)						
	replaced with 30						
	no. flood light 100						
	W and 10 no.						
	parking light 20 W,						
	200 nos 40 W						
	conventional tubes						
	replaced with 20						
	W LED tubes, 30						
	nos. 70-watt						
	sodium vapor						
	lamps have been						
	replaced with 30						
	nos. 30W LED						
	Street lights & 18						
	nos. 250-watt						
	sodium/mercury						
	lights have been						
	replaced with 18						
	no. 100W LED						
44	Flood lights.					0.00.0	
11	In FY 2024-25,					2.02 Cr.	Assuming
	4059 meters were					(While	Saving of 100
	shifted outside					considering	Watt per
	consumer	2024-25	11.85	101.892	14.22	the	household. While
	premises enabling enhanced					investment	considering 8 hours of
						of @ Rs.	
	monitoring and					5000/- per	consumption per
	increasing					meter for	day, the total



S,No.	Implemented						
	consumer awareness. This strategic relocation of meters led to a reduction in electricity theft and increasing billing.					shifting outside consumer premises)	saving from 4059 household is 11.85 LUs.
12	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 745058 no. of Smart meters across various consumer categories.	2024-25	1341.10	11531.384	44703.48		Assuming Avg 6000 Kwh/year per smart meter and 3% saving from improved metering accuracy & theft detection.
	Total	From 2021-22 to 2024 -25	4478.011	38503.096			



Energy Conservation Measures Recommended by Auditor

S. No.	Energy Conservation Measure	Description
1	Implementation of Advanced Distribution Management System (ADMS)	Integrating ADMS to enable real-time monitoring, fault detection, load forecasting, and automated switching operations to optimize power flow and reduce losses.
2	Time-of-Day (ToD) Based Tariff Rollout	Encouraging consumers to shift consumption to off-peak hours by introducing differential pricing, which reduces peak load stress and overall system losses.
3	Deployment of AI/ML for Loss Analytics	Using Artificial Intelligence and Machine Learning to detect energy theft, predict demand patterns, and optimize load balancing in feeder and DT-level monitoring.
4	Upgradation to Energy- Efficient Distribution Transformers (Star Rated)	Phasing out old transformers and replacing them with BIS 5-Star rated transformers to reduce core and copper losses significantly.
5	Consumer Awareness and Behavioral Energy Efficiency Programs	Conducting (Information, Education, and Communication) IEC campaigns, energy conservation drives, and mobile app-based consumption insights to empower end-users to adopt efficient practices.
6	SCADA Expansion to All Urban Substations	Extending SCADA systems across urban and semi-urban substations for remote monitoring and faster fault diagnosis, enhancing system reliability and reducing outage losses.
7	Integration of Rooftop Solar with Net Metering & Virtual Net Metering	Promoting decentralized renewable energy generation to reduce grid demand, especially during peak hours, and support RPO/RCO compliance.
8	Smart Metering and GIS Integration	Implementing smart metering across all HT and high-load LT consumers, integrating with GIS for real-time monitoring of energy usage, loss detection, and enhanced asset management.
9	Battery Energy Storage Systems (BESS) at Substations	Installing BESS in select substations to manage peak loads, frequency stabilization, and reactive power support for grid efficiency.
10	Dynamic Voltage Optimization (DVO) at Consumer End	Deploying voltage regulation technologies at distribution transformers to maintain optimal voltage levels, thereby reducing energy wastage at consumer premises.



Methodology for M&V

For reporting under PAT Cycle VII, PSPCL adopts a systematic approach for data submission and verification as per the guidelines of the Bureau of Energy Efficiency (BEE). The methodology ensures that consistent, accurate, and verifiable data is captured regarding infrastructure, energy input, and circle-wise distribution losses for both baseline and assessment years.

Filling of Sector-Specific Pro-Forma by DC

The Sector-Specific Pro-Forma is designed to capture all relevant infrastructure and energy data required for the computation of distribution losses at the DISCOM level. It is structured to facilitate uniform reporting and enable the calculation of *gate-to-gate* transmission and distribution (T&D) losses. The following key steps and components are involved:

1. Regulatory Compliance: As per *Energy Conservation Rules* (2007), each Designated Consumer (DC) is required to submit annual energy consumption reports (Form-1) to the State Designated Agency (SDA) and BEE in both electronic and hard copy formats.

2. Structure of the Pro-Forma:

- Instruction Sheet for filling Form-1
- General Information Sheet
- Form-1 (auto-generated post data entry)
- Form Input Energy
- Form SJ (Consumer & Billing Data)

3. Pro-Forma Features:

- Formula cells are locked to ensure data integrity and security
- Color-coded cells to guide data entry
- Used for annual energy return submission under PAT since FY 2014-15

4. Data Requirements:

- Input energy data (meter-wise) at distribution periphery
- Open access sales, EHT sales, and transmission losses
- Consumer numbers and connected loads (category-wise, circle-wise)
- Circle-wise billed energy and computed distribution losses
- Circle-wise and DISCOM-level T&D losses

5. Reporting:

DCs are required to submit both baseline and assessment year data,



supported by primary and secondary documentary evidence. The data entry follows the format and instructions provided by BEE and SDA.

Verification Process

The Empaneled Accredited Energy Auditor (EmAEA) is responsible for verifying the submitted data through the following process:

- 1. Obtain the final Baseline Report (approved by BEE) from PSPCL.
- 2. Conduct site visits to review monitoring systems, interview PSPCL staff, and collect supporting evidence.
- 3. Review baseline reports, sector-specific pro-forma, and relevant documents in advance.
- 4. Cross-verify circle-wise losses, total input energy, and ensure data consistency across all reporting formats.
- 5. Assign verification tasks among audit team members—covering primary/secondary sources, field observations, and interviews.
- 6. Validate the baseline T&D losses against original approved reports and records.
- 7. Document and resolve any typographical or factual discrepancies through supporting evidence.
- 8. Report discrepancies (if any) to BEE for further rectification and pro-forma updates.
- 9. Evaluate the assessment year data for accuracy and evidence-based reporting.
- 10. Review energy saving projects (if applicable) and their impact on reported performance.
- 11. Verify formula applications and overall computation methodology.
- 12. Maintain proper documentation for all sources reviewed.

The final verified dataset—inclusive of any corrections—forms the basis for reporting PSPCL's T&D performance under PAT Cycle VII. This structured methodology ensures transparency, accuracy, and regulatory compliance throughout the reporting and verification cycle.



Verification Process

As part of the verification process under PAT Cycle VII, the Empaneled Accredited Energy Auditor (EmAEA) is required to systematically carry out the following steps to ensure accurate validation of PSPCL's reported data:

- 1. Upon receipt of the work order, the EmAEA shall obtain the final Baseline Report (as accepted by BEE) from the Designated Consumer (DC).
- 2. The EmAEA shall schedule and conduct a site visit on mutually agreed dates with PSPCL, to inspect the monitoring systems, interview key personnel, and collect all necessary supporting documentation through the Sector-Specific Pro-Forma.
- 3. Prior to the site visit, the EmAEA will thoroughly review the Baseline Report, Sector-Specific Pro-Forma, and Normalization Documents to ensure a complete understanding of PSPCL's reporting structure.
- 4. For computing Transmission & Distribution (T&D) losses, the EmAEA will validate the input energy recorded at the distribution periphery and verify that the sum of circle-wise losses matches the calculated T&D losses at the DISCOM level. Total input energy across circles must align with metered input energy records.
- 5. The EmAEA will assign verification tasks among team members, covering analysis of Primary and Secondary Sources, field observations, interview reports, and relevant documents.
- 6. The EmAEA will verify the Baseline T&D loss percentages using the approved Baseline Report.
- 7. Any additional baseline data provided by PSPCL will be cross verified against authentic documentary evidence.
- 8. The validated baseline data will be treated as the final dataset for completing the Sector-Specific Pro-Forma. Any typographical or factual errors identified during verification will be documented and corrected with proper justification, which will be included in Verification Form B along with supporting evidence.
- 9. The T&D loss calculation methodology prescribed in the Sector-Specific Pro-Forma will be adhered to during verification.
- 10. In the event of discrepancies between baseline data and previously reported data, the EmAEA will report such issues to BEE with proper justification. Once approved, BEE will issue a rectified Pro-Forma to the DC. Representatives from BEE may also visit PSPCL during the verification process.
- 11. The EmAEA will conduct a thorough review of assessment year data and verify its authenticity through documented sources.
- 12. The EmAEA will assess and validate any energy-saving projects implemented during the assessment period.
- 13. The EmAEA will review the accuracy and application of formulas used in data computation.
- 14. Verification will ensure complete review and availability of primary and secondary documentation supporting all reported data.



Annexures

1.21 Subsidy Details Proof:

Quarter 4:

Consumer Category (Separate for each subsidized consumer category)	Billed Energy sub					bsidized Billed Energy		Applicable rate of Subsidy as notified by State govt.		Subsidy Due from State govt.			Subsidy Actually Billed/ claimed from State	Received from	Balance Subsidy yet to be Received from	
	Kwh/Kvah	Metered	Un-metered*	Total	Metered (out of col.3)	Un-metered* (out of col.3)	Total	Metered Energy**	Un- metered Energy**	Metered Energy	Un-metered Energy	Total	Govt. (As against col.12)	against col.13)	State Govt.	
			. (in kwh/Kvah))			(in kwh/Kvah)) .		(in Rs/kwh)		. 0	n Rs. Cr.)		(in Rs. Cr.)	(in Rs. Cr.)	(in Rs. Cr.)	
1		2	3	4+2+3	5		7=5+6		,	10=5±8	11=6x9	12=10+11	13	14	15=13-14	
Residential	Kwh				2574647748			Rs.2.50 to Rs.7.15 per KWh Rs 6.55 per KW upto 15.06.2024 & from 16.06.2024 at tha rate 6.70		1607.92		1607.92			303.42	
Agriculture Commercial/Industrial LT Commercial/Industrial HT	Ewh				23790000 6208168704		1633390000 6208168704	Rs. 0.15 to 1.37 per KVA		15.94		1094.53 604.84	1094.53	1762.40 592.00	12.84	
Other (specify)																
otal					8806606452	1609600000	10416206452			2228.70	1078.59	3307.29	3307.29	3658.90	-351.61	
4258.61 crore. Th	e detail is as be	low:	I-25 comes to R	s. 3307.29 d	rore whereas	State Governme	ent has rele	ased Rs.3658.90 crore. Th	ne net su	bsidy recover	able from	GOP up	to 3rd qu	arter is	Rs.	
iovt. for Q4 (Rs. in	net excess subsidy to be adjusted in 4th quarter (Rs. in crore)	subsidy to be received for FY 2024-25 (Rs. In crore)														1
4258.61	-351.61	3907.00														/w-

Consumer Category (Separate for each subsidized consumer category)		Billed E	nergy		se	bsidized Billed Energy		Applicable rate of Subsidy as notificable rate of Subsidy as notification.	fied by State	Subsidy (Due from State	govt.	Subsidy Actually Billed/ claimed from State	Subsidy Received from State Govt. (As	Balance Subsidy yet to be Received from
7	Kwh/Kvsh	Metered	Un-metered*	Total	Metered (out of col.3)	Un-metered* (out of col.3)	Total	Metered Energy**	Un- metered Energy**	Metered Energy	Un-metered Energy	Total	Govt. (As against col.12)	against col.13)	State Govt.
			(in kwh/Kvah))		- 2	(in kwh/Kvah))		(in Rs/kwh).			(in Rs. Cr.)		(in Rs. Cr.)	(in Rs. Cr.)	(in Rs. Cr.)
1		2	3	4=2+3	5	6	7=5+6	1	,	. 10+5×8	11=6x9	12=10+11	13	14	15=13-14
Residential	Kwh				16566220911			Rs.2.50 to Rs.7.15 per KWh		8284.57		8284.57	8284.57	6223.70	2060.87
Agriculture	run				125480000	14817730000		Rs 6.55 per KW upto 15.06.2024 & from 16.06.2024 at the rate 6.70 per KW		83.69	9893.62	9977.32	9977.32	8491.47	1485.85
Commercial/Industrial LT Commercial/Industrial	Evah				24643613529		24643613529	Rs. 0.15 to 1.37 per KVA		2537.27		2537.27	2537.27	2176.99	360.28
Other (specify)	kvan														\neg
otal					41335314441	14817730000	56153044441			10905.53	9893.62	20799.16	20799.16	16997 16	3907.00





1.22 Work order copy from DC

Link: Please refer Annexure

1.23 Undertaking from EmAEA [On Mandatory Energy Audit (MEA) not carried out by the firm and team members involved in M&V]

I/we do hereby undertake that our firm **Namdhari ECO ENERGIES PVT LTD** having its corporate office at C–105 Galaxy Vega, Tech zone – 4, Greater Noida (West), U.P. India – 201318 & its Energy audit team, which is involved in Monitoring & Verification (M&V) of **Punjab State Power Corporation Limited PSPCL** has not carried out the Mandatory Energy Audit for the "**Punjab State Power Corporation Limited PSPCL**" during previous (PAT Cycle).

Accredited Energy Auditor (AEA-206)
Bureau of Energy Efficiency
Ministry of Power, Govt. of India

Bali Singh AEA-206

Namdhari Eco Energies Pvt. Ltd.



1.24 Work order for M&V Audit by PSPCL to Namdhari Eco Energies

Copy of work order:



PUNIAB STATE POWER CORPORATION LIMITED

Regd. Office: PSE8 Head Office, The Mail, Patiala.147001.
Office Dy.CE/DSM, 8-3, Shakti Vihar, Patiala
email: se-dsm@pspc1.in_ Mobile no: 96461-18111

To

M/s Namdhari Eco Energies Pvt. Ltd., Greater Noida 201306, Uttar Pradesh.

Memo no ⊋61

/DSM-149

Date: 26-03-2025

Sub:

Letter of award Tender Enquiry No. 001/DSM-2024-25 for appointment of BEE Empanelled Accredited Energy Auditor Firm (EmAEA) to conduct Monitoring & Verification (M&V) of PSPCL under PAT Cycle-VII of energy performance of PSPCL for assessment year 2024-25 with a baseline year taking into the consideration relevant conditions along with all reports i.e. final verification report, verified annual Form 1, DISCOM Specific Proforma, Form-A, Form-B, Form-C, Form-D etc. with authentic supporting documents in accordance with BEE M&V Guidelines for DISCOM sector, PAT Rules, 2012 and its subsequent amendments.

With reference to your offer dated 21-02-2025 submitted against the subject cited tender enquiry, It has been decided to place an order upon your firm to conduct Monitoring & Verification (M&V) Audit of PSPCL under PAT Cycle-VII at your own quoted rate Rs. 1,49,950/- +GST @18% i.e. total amounting to Rs. 1,76,941/- (One lakh seventy six thousand nine hundred and forty one only including GST @18%) as per scope of work in the Tender Enquiry No. 001/DSM-2024-25. Detail work order will have been shortly.

Please convey your acceptance within five days from the date of issue of this letter failing which it will be considered that this offer is not accepted to you and further action shall be taken accordingly.

25/AF

CE/EA & Enforcement, PSPCL, Patiala.

2. CE/TA&I, PSPCL, Patiala.





1.25 Terrif Details of PSPCL for FY 2024-25

Kindly visit the PSPCL Tariff Order for further details and comprehensive information.

Link: https://docs.pspcl.in/docs/cecommercial2420240614200521031.pdf

Commercial Circular No. 11/2024

To

All Engineer-in-Chief/Chief Engineers (DS), Under Punjab State Power Corporation Limited.

Memo No. 156/160 /T.O 2024-25

Dated: 14.06.2024

Subject:

Tariff structure for FY 2024-25 as per Tariff order issued by Hon'ble PSERC vide its order dated 14.06.2024 applicable w.c.f. 16.06.2024.

Hon'ble PSERC vide its order dated 14.06.2024 against Petition no. 64 of 2023 filed by PSPCL for True-Up of F.Y. 2022-23, and approval of forecast of Annual Performance Review for FY 2024-25 and determination of tariff for FY 2024-25, has issued the Tariff Order for FY 2024-25. The revised tariffs will be applicable from 16.06.2024 to 31.03.2025, except where specified otherwise in Tariff Order for FY 2024-25. For the period from 01.04.2024 and up to 15.06.2024, Tariff shall remain as per Tariff Order for FY 2023-24 as already intimated vide CC No. 16/2023 dated 16.05.2023.

The rates of power supply applicable to various categories of consumers as per Table 7.2 of Tariff Order for FY 2024-25 is enclosed herewith (Annexure-A). Free power/subsidized tariff shall be applicable to various categories of consumers as per GoP letter no. ENRG013/1/2023/EV2/1/852762/2024 dated 30.05.2024 and letter no. ENRG013/1/2023/EV2/1/857606/2024 dated 06.06.2024 (Annexure-IX).

Meticulous compliance of this circular be ensured. This circular can be downloaded from PSPCL website www.pspcl.in.

This issues with the approval of competent authority.

DA/

i. Annexure-A (3 pages)

ii. Annexure-IX (4 pages)

Dy.CE/Sales-II PSPCL, Patiala.



1.26 Form B

<u>From B</u>

[(See rule 6(1)] CERTIFICATE OF VERIFICATION

M/s Namdhari Eco Energies Pvt. Ltd. the accredited energy auditor (Name of the Empaneled Accredited Energy Auditor Firm), have undertaken a thorough independent evaluation of the activities undertaken by M/s. Punjab State Power Corporation Ltd., a designated consumer for compliance with the energy consumption norms and standards specified under the Government of India Ministry of Power notification number S.O.4491, dated the 26.10.2021 during the target year 2024-25 compared to the baseline year 2018-19 and consequent entitlement or requirement of energy savings certificates and certify that-

- (a) the verification of the data collection in relation to energy consumption and specific energy consumption per unit of production in the baseline year and in the target year in Form 1 under Rules 2007 or Rules 2008, has been carried out diligently and truthfully.
- (b) the verification of the identified energy efficiency measures, and the progress of their implementation given in Form 2 and Form 3 under Rules 2008 has been carried out diligently and truthfully.
- (c) the verification of the compliance with energy consumption norms and standards during the target year has been carried out diligently and truthfully.
- (d) the verification of the total amount of energy saved, year-wise, after the baseline year and until target year or otherwise and request made by the designated consumer, the entitlement of <u>4,183</u> (Nos) energy savings certificate (s) required to be <u>issued</u> or purchased by him have been carried out diligently and truthfully.
- (e) all reasonable professional skills, care, and diligence have been taken in verifying the various verification activities, findings and conclusions, documents, reports, preparing the documents including the performance assessment document in Form 'A' and verification report and the contents thereof are a true representation of the facts.

Signature:

Name of accredited energy auditor for verification

Designation:

Name of the Empaneled Accredited Energy Auditor Firm

Accredited Energy Auditor (AEA-206)
Pureau of Energy Efficiency
Ministry of Power, Govt. of India

SEAL



1.27 Form A

Form - A

[(See rule 6 (1)]

PERFORMANCE ASSESSMENT DOCUMENT

(To be filled by designated consumer)

	Name of designated consumer	Punjab State Power Corpo	oration climitos (i. c.
\rightarrow		DIS0014PB	
2.	Registration number	Power (DISCOM)	
3.	Sector		
4.	Sub-sector	Electricity Distribution Con	
5.	Accredited energy auditor	Namdhari Eco Energies P	vt, Ltd.
а	Name of the Empanelled Accredited Energy Auditor Firm	Mr. Bali Singh-AEA-206	
b	Registration number of Firm	EmAEA – 57 Number in B	EE list
6.	List of documents submitted (Attach a copy self-attested by Energy Manager and counter signed by Accredited Energy Auditor)		
a.	Baseline data (2018-19)	Submitted	27.05.2021
b.	Form I (2021-22)	Submitted	07.02.2023
c.	Form I (2022-23)	Submitted	16.08.2023
d.	Form I (2023-24)	Submitted	23.8.2024
e	Form 2 of Rules, 2008	Not submitted	
f.	Form 3 of Rules, 2008	Submitted	30.06.2025

Er. Ravi Verma

EA- 7969

Energy Auditor PSPCL, Patiala.



7.	Specif	ic energy cons y Performanc	sumption/ e Matrix		Value		Unit
Α	Baselir	e T&D losses	(%)as notifi	ed	12.94	%age of to	ransmission &distri ses
В	Net Inp	ut Energy durir	ng (baselin	e) as 5	54,037.64	Million Un	its
С	assess	T&D losses (% ment year FY 2 gazette) for 2024-25 as	per	12.40	%age of to	ransmission &distri ses
D		nce of Baseline as notified	T&D Loss	and	0.09	%age of to	ransmission &distr ses
Ε	Normali target y	ised T&D Loss rear)	(Achieved i	in the ,	12.31	%age of to	ransmission &distr
F	Energy issued o	savings certific or deficit	ates to be		4182.51	Escert= [(C-E)*B] *0.86
8.	Energy	Efficiency Proj	ect implem	ented duri	ng current c	ycle (2021-	-22 to 2024-25)
S. No	Project	Year of Implementation	Annual Energy Savings in Lakh kWh	Annual Energy Saving toe*	Annual Energy consumption (before) in	(Rs. Crores)	Remarks

^{*} Please indicate the weighted average Gross Calorific Value (GCV) of coal considered for calculation of toe: kcal/kg.

Note 1: Form A may be filled in accordance with the following guidelines, namely: -

GUIDELINES

- 1. Name of designated consumer: As per notification under clause (g) of section 14.
- 2. Registration No: As provided by Bureau of Energy Efficiency
- 3. Sector: As specified in Form 1 of Rules, 2007 or Rules, 2008.
- Sub-sector: As specified in Form 1 of Rules, 2007 or Rules, 2008.
- Name of accredited energy auditor: As selected by designated consumer from list of accredited energy auditor empaneled by Bureau of Energy Efficiency.
- 6. List of documents submitted:
 - (a) Baseline data: Submitted to Bureau of Energy Efficiency for Target Calculations
 - (b) Form 1 of Rules, 2007 or Rules, 2008 mention the year (): As per filing, attach acknowledgement of submission i.e. after completion of 1st year after notification.
 - (c) Form 1 of Rules, 2007 or Rules, 2008.mention the year (): As per filing, attach Er. Ravi Verma

EA- 7969 Energy Auditor PSPCL, Patiala.



acknowledgement of submission i.e. after completion of 2nd year after notification

- (d) Form 1 of Rules, 2007 or Rules, 2008.mention the year (): As per filing, attach acknowledgement of submission i.e. after completion of target year
- (e) Form 2 of Rules 2008: As per filing, attach acknowledgement of submission
- (f) Form 3 of Rules 2008: As per filing, attach acknowledgement of submission
- Specific energy consumption (SEC)
 - (a) Specific energy consumption (Baseline): As notified by Government of India as
 - (b) Production (Baseline): As notified by Government of India as aforesaid.
 - (c) Target specific energy consumption as notified: notified by Government of India
 - (d) Normalised specific energy consumption (Achieved): Normalised specific energy consumption (Achieved) inthe target year from Form 1 of Rules, 2007 and Rules,
 - (e) Energy savings certificates: Calculate as per formulae provided in the rule 11. Enter +ve value if energy savings certificates to be issued to designated consumer or enter -ve value in case recommended for purchase of energy savings certificates
- 8. Project implemented during current cycle: Energy efficiency projects implemented by designated consumers during last three years. Attach photograph of energy savings projects implemented.

<u>Undertaking</u>

I/We undertake that the information supplied in this Performance Assessment Document 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 Gevernment or State Government or any of the authority under them or any other person affected, I/we Undertake to indemnify such loss.

I /We agree to extend necessary assistance in case of any enquiry to be made in the

CEIEA & Enforcement Name: Er. Rakesh Chand Kokria
P.S.P.C.L., Patia Assignation: Chief Engineer/ EA & Enforcement,

For and behalf of Name of the Firm/Company/ Organization: Punjab State Power Corporation Ltd. SEAL of the Firm /Company/ Organization"

Er. Ravi Verma EA- 7969 Energy Auditor PSPCL, Patiala



	- [
•	F	,Ne Implemented						A .
		Project	Year of Implement ation	Annual Energy Savings in Lakt KWH	Annual Energy Saving in toe	Annual Energy Consumption (before) in Lakh KWH	Investment (in Crores)	Remarks
	-	In FY 323-1-2, 31037 meters were shifted outside consume premises enabling enhanced envolving and increasing continuer environess. This strategic relocation of meters led to a reduction in electricity theti and increasing billing.	2021-22	90.7	779.860	100.84	15.53 Cr. (White considering the investment of @ Rs. 5000- per meter for shifting outside consumer premises)	Assuming Saving of 100 Watt per household. White considering 8 hours of consumption per day, the total saving fro 31057 household is 90,70 LUs.
	2	As Part of CSM & Energy efficiency initiatives, PSPCL has successfully installed 46557 no. of Smart meters across various consumer categories.	2021-22	83,98	722.120	2799.42		Assuming Avg 6000 Kwh/year per smart meter and 3% saving from improved metering accuracy & theft detection.
L	9	Distribution of 1175545 No. of 9W LEDs among consumers of SC, BC, BPL categories under KLEY Scheme & further extended to General categories.	2021-22	1750.62	15052.623	2059.55	7.071 Cr	Energy consumption is calculated by considering 8 hrs per day for 365 days of working of lights.
4		In F7 202-22, 4608 makes were shifted outside consumer premises enablely enhanced monitoring and increasing consumer awareness. This strategic relocation of makes led to a reduction in elocaticity their and increasing billing.	2022-23	131.28	1128.805	157.53	22.47 Cr. (While considering the investment of @ Rs. 5000i-per meter for shifting outside consumer premises)	Assuming Saving of 100 Wast per household. While considering 8 hours consumption per day, the total saving from 44958 household is 131.28 LUs.
•	1	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 45232 no. of Smart meters across various consumer categories.	2022-23	81.45	700.375	2715.12		Assuming Avg 6000 Kwintyear per smart meter and 3% saving from improved metering accuracy & theft detection.
•	1	nergy Efficient (Level 2 efficiency) transformers installed.	2022-23	1.78	15.305		Rs. 2.4 Cr.	
	H	eplacement of Flood Lights into LED Lights at Natissan Power ause.	2022-23	0.87	7.481		Rs. 0.03 Cr.	7.0
	Th	FY 2023-34. Billed moters were shifted cutable consistence premises abilities enhanced monotoning and immaning consumer assurements, as strategic relocation of meters led to a reduction in electricity their increasing billing. Part of USM & Energy efficiency industries, PSFICE, has	2023-24	26.19	225,193	31.42	4.48 Cr. (White considering the investment of @ Rs. 5000i- per meter for shifting outside consumer premites)	Assuming Saving of 100 Watt per household. While considering 8 hours o consumption per day, the total saving from 8968 household is 26.19 LUs.
	\$40	essfuly installed 530530 no. of Smart meters across various numer categories.	2023-24	954.95	8211.092	31831.8	-	Assuming Avg 6000 Kwhilyear per smart meter and 3% saving from improved metering accuracy & theft detection.
						Er. Re EA- 79 Energ	ivi Verm	a

10	Replacement of all types of 819 Nos tube lights below 100W with 100W high, efficiency LED labe lights, 170 nos. conventional 122 W bloss with 210 nos 20 W LED Lights, 33 Nos 250 W fill of Might with 35 nos. Scot Sight 80 W, 40 no. 130 ns 460 W & 10 ns, printing light 100 W in nyspaced with 30 no. fill of 100 W and 10 ns, parking light 20 W; 200 ns 40 W conventional bulber registed with 20 W LED labes, 30 ns. To-Wast Stodies with 20 W LED labes, 30 ns. To-Wast Stodies with 20 W LED labes, 30 ns. To-Wast Stodies with 20 M LED labes, 30 fill ns. 40 W conventional bulber registed with 20 ns. 30W LED Street lights & 18 ns. 42 CD-wast souldwrittensup lights have been registed with 30 no. 10 W LED labes, 30 fill ns. 40 M LED labes, 30 M LED labes,	2023-24	3,241	27.666	4.19	0.121	Až lights installed under Power House at RSO Salpuntandi, ASP Philiphania (Nad Philiphania) (Nad Philiphania Power House Joginder Nagar., UBDC Hydel Project Melitpur.
55	In P 2024-25, 4059 meters were shifted outside consumer premises enableg enhanced molekring and increasing consumer asserters. This strategic exclusion of reders led to a reduction in electricity their and increasing billing.	2024-25	11.85	101.892	14.22	2.02Cr. (White considering the investment of (i) Rs. 5000- per meter for shifting outside consumer premises)	
. 12	As Part of DSM & Energy efficiency initiatives, PSPCL has successfully installed 745058 no, of Smart meters across various consumer categories.	2024-25	1341.10	11531.384	44703.48		Assuming Avg 6000 Kwh/year per smart mater and 3% saving from improved metering accuracy & theit detection.
	Total	From 2021-22 to 2024 -25	4478.017	38504.017	84425.58		
	7			EA- 796	vi Verma 9 Auditor Patiala		2
				PSPCL,	100		
				Parcin			
				PSPCL,		5	
				rsrcu,			
				PSPCIA			



1.28 Signed Performa for 2024-25

-		Electricity Dist	ribution Com	eral Informatio	
_	Name of the DISCOM	Pur	siab State Pors	ver Corporation Limited	(PSPCL)
1	i) Year of Establishment	- 10	gae suite i o	2010	
2	(ii) Registration No			-	
	(As provided by BEE)			DI90014PB	
_	Contact details & Address			07915	- 1775 Tr. (1888)
3	DISCOM's address		• т	he Mall, Patiala.	
a	City/Town/Village .			Patiala	
-	District			Patiala *	
100	State	Panj	ab	Pin	147001
iv	Telephone	0175-22	The second second second	Fax	0175-2213199
ь	DISCOM's Chief Executive		Sh. Aj	oy Kumar Sinha, IAS	
- 1	Designation			CMD PSPC1.	
1		3002.61			AUTT 2212110
ii	Telephone with STD Code	0175-22		Fax	0175-2213199
iii	Mobile		E-mail	C100 2000	(Basadin
4	Registered Office	Market Land	T. C. S. Krister		
i	Company's Chief Executive Name (Nedal 4# (#)			kesh Chand Kokria	
H	Designation	C		(Energy Audit & Enforc	
iii	Address		Shed No.	B2, Shakti Vihar, Patia	la
iv	City/Town/Village	Patia	da ,	P.O.	Patiala
v	District			Patiala	
vi	State	Punj	ıb .	Pin	147001
vii	Telephone	0175-22	15774	Fax	0175-2215774
5	Energy Manager Details	PER STANFOR	TO SHARE THE PARTY	The State of the S	and the second
i	Name			Er. Ravi Verma	
ii	Designation	ASI		Whether EA or EM	EA
iii	EA/EM Registration No.			EA-7969	
iv	Telephone			Fax	
٧	Mobile	96461 18860	E-mail ID	atiratorina@emal.com	harverma?Nd/gmail.com
know	Sertake that the information supplied dedge. d Signatory and Seal	in the Form Input	Energy ans S) is Signature- Name of Energ	;	
	urberised Signatury: he Designated Consumer:		Registration N		
Addre		_	Name	ceredited Energy Auditor	~~
	he s. 10 FITA & Enforcement -	DV.012.70.5	Date	Er. Ravi V KEA- 7969 Energy Ave	
201					ala.



						*			. *	*		
			-	(4)						-	0	
		3.1 74	F		ectricity Dis	tribution C	ompanies [PSPCL)				
.No			Para	A. Sum meters	mary of en	ergy input	& Infrastru	Base line year	Target Year	Remarks (Source of data)		
					that -		1000	(2018-19)	(2024-25)			
.1	Input Energy purc	hased (MU)	100000					55369.88	78611.54	Historical Data		
.2	Transmission loss	(%)						2.4%	5.05%	Inter State. Inc. 88M8+Intra state transmission losses 1636-612+2335,219 (inter	6 8	
	0.58									State. Inc. 88M8+Intra	ľ	
1.3	Transmission loss	(MU)						1332.24	3971.832	state)=3971.832 (Energy Schdule) sheet SR. NO.	S.	
.5	Energy sold outsit Open access sale		ry(MU)					-2569.62 0		13.2+14+15+16+17 Railway	S.	
V.6	EHT sale Net input energy	-	ISCORA paciah	an or at dista	therion no	at alter ad	urtmant)	0	0			
v.7	(MU)	and the second	100000000000000000000000000000000000000	Automotive Control	761.0836.00	sit, atter au	datment)-	54037.64		DD PORTAL	8	
.9	Is 100% metering Is 100% metering	available at 1						yes yes	yes			
.10 .11	% of metering ava % of metering ava	ilable at cons						2.87% 85.55%	4.51% 87.43%	IT		
1.12	No of feeders at 6 No of feeders at 3	i3kV voltage k	ivel					144 5	4	OD PORTAL		
.14 .15	No of feeders at 1 No of LT feeders I	evel				1		11566 0	0	*	8	
.16 .17	Line length (ckt. k Line length (ckt. k	m) at 66kV vo		-				10099 87	11765.54 73.7	PLLANING PLLANING		
18	Line length (ckt. k Line length (km) :	m) at 11kV vo						242012 147083	263913	PLIANING		
20	HT/LT ratio	ar icycl	·	-	V-1-			1.65 ection points	1.69			
S.No	Voltge	feeder	Minister I	Previous year	(2018-19)	1000	energy M)		Current year 2024		Hemarka (Source of	
B.1	11KV	Name 11Kv NEW	Meter S.No	CT/PT ratio 900-450/.52	(MU) 6.1803	Export (MU)	Meter S.No	CT/PT ratio 900-450/.577/1-	[MU] 5.803	(MU)	data) Dir/D Porta	
B.2	11KV	11Kv New	2046495	1200/.577/:	9.5779	0	2046495	1200/.577/1-1-1	11.823		De por dice	
B.3 B.4	11KV . 11KV	11Kv Navd	2993713	1200/.577/ 1200/.577/	5.2264 5.8977	0	2993713	1200/.577/1-1-1 1200/.577/1-1-1	7.534 6.817		1	
B.5 B.6	11KV 11KV	11Kv Ghee 11Kv Kesri		1200/.577/1	5.0738 6.0151	0		1200/.577/1-1-1	5.322 6.688			
8.7 8.8	11KV	HUSSAINPO Head Wate		900-450/.57	7.1644 5.8342	0		900-450/.577/1-				
B.9 B.10	11KV 11KV	11KV NEW 11 KV MOT	198076	1200/.577/.	1.5795 5.0912	0	198076	1200/.577/1-1-1				
B.11	11KV	11Kv saras	Not available	Not available	0.001	0	3067573	1200/.577/1-1-1	5.258			
B.12 B.13	11KV 11KV	11KV Huss 11KV Ram	7042833	1200/.577/1 1200/.577/	3.9984 9.4854	0	3067982	1200/.577/1-1-1 1200/.577/1-1-1	7.203			
B.14 B.15	11KV	11KV Civil I Cheel Man		1200/.577/	4.697 0.5548	0		1200/.577/1-1-1 1200/.577/1-1-1	1,458 10.022			
B.16 B.17	11KV 11KV	BHARAWA MASHI MA		1200/.577/: 1200/.577/	7.9062 1.6956	0		1200/.577/1-1-1	1.977			
B.18 B.19	11KV	KARION M. TOWN HAI	197948	1200/.577/	5.266 0.2962	0	197838	1200/.577/1-1-1	+ 2,545			
B.20 B.21	11KV 11KV	Focipoint o Bhai Laloji	197839	1200/.577/	3.0633 0.1554	0	10282977	1200/.577/1-1-1 1200/.577/1-1-1	22.863			
B.22	11KV	GT road	197891	1200/.577/	1.3163	0	11052041	1200/.577/1-1-1	12.570			
B.23 B.24	11KV 11KV	Byepass New Focal	197838 197886	1200/.577/	0.8771 4.6989	0	11081970	1200/.577/1-1-1 1200/.577/1-1-1				
B.25 B.26	11KV	Gobind Na	Not available 10282977	1200/.577/	0.4787 22.5022	0	5343286	1200/.577/1-1-1 900-450/.577/1-	11.844			
B.27 B.28	11KV 66KV	Kapoor Na Apha G	11052009 11052041		12.0417 9.3212	0	Not availab	1200/.577/1-1-1 Not available	14.882			
8.29 8.30	11KV 11KV	GTB FOCAL BABA DEEF	10288333 11081970		3.7625 14.7042	0		1200/.577/1-1-1 1200/.577/1-1-1				
8.31 8.32	11KV 11KV	ATTARI SA Bhai Ghan	11057979	1200/.577/ 900-450/.51	13.5027 8.0175	0	33845	1200/.577/1-1-1 1200/.577/1-1-1	10.632			
8.33 8.34	11KV 11KV	BABA BUD		1200/.577/	5.5063	0	33830	1200/.577/1-1-1 1200/.577/1-1-1	12.654			
8.35	11KV -	11 KV SULT	10282977	1200/.577/	15.602	0	33833	1200/.577/1-1-1	12.529			
8.36 8.37	11KV 11KV	11 KV VALI 11 KV Bhai	33849	1200/.577/	2.8341 4.324	0	5475	900-450/.577/1- 1200/.577/1-1-1	5.725			
8.38 8.39	11KV 11KV	11kV Diam 11 kv Alph	73142114	1200/.577/ 1200/.577/	11.3216 9.4432	0	6773	1200/.577/1-1-1 900-450/.577/1-	2.503			
8.40 8.41	11KV 11KV	11kV Gard 11kV Gaus	33830	1200/.577/	8.3538 8.316	0	10288333	1200/.577/1-1-1 1200/.577/1-1-1	10.998		-	
8.42 8.43	11KV 11KV	BASANT AN	33833	1200/.577/	8.7694 8.5785	0	2068148	1200/.577/1-1-1 1200/.577/1-1-1	5.891			
8.44	11KV	GREEN AV	2058148	1200/.577/	12.1292	0	6676498	1200/.577/1-1-1	9.514			
8.45 8.46	11KV 11KV	RANI KA B	6676498	1200/.577/ 1200/.577/	8.4466 10.1831	0	6676502	1200/.577/1-1-1 1200/.577/1-1-1	- 5.793			
8.47 8.48	11KV 11KV	MOHAN H	6676502	1200/.577/1 1200/.577/1	3.8347 5.2445	-0	2066552	1200/.577/1-1-1 1200/.577/1-1-1	5.636			
8.49 8.50	11KV 11KV	DISTRICT C	6675727	1200/.577/1	6.571 4.8545	0	195605	1200/.577/1-1-1	2.098			
8.51	11KV	MODEL TO	195606	1200/.577/	1.3409	0	6675729	1200/.577/1-1-1 1200/.577/1-1-1	7.988			
B.52 B.53	11KV 11KV	MAHINDE	6575729	1200/.577/1	7.5816	0	583763	1200/.577/1-1-1	4.647			1
B.54 B.55	11KV 11KV	BEAUTY AV	583763	1200/.577/	3.0028 4.1588	0	536425	1200/.577/1-1-1 1200/.577/1-1-1	6.938			
B.56 B.57	11KV 11KV	66 KV Kach CANAL OF	Not available		6.5494 0.9304	0	15195204 7463625	1200/.577/1-1-1 1200-600/5	0.023	1	SM	
8.58 8.59	11KV 11KV	RLY WORK swadeshi r	7463625	1200-600/5 1200-600/5	14.4478	0	7042956	1200-600/5 1200-600/5	1.205			
8.60	11KV	RAILWAYS	2047185	1200-600/5	9.0136			1200/.577/1-1-1			Patial	20 C



B.13646 111 B.13647 111 B.13648 121 B.13654 111 B.13651 111 B.13651 121									
8.13649 110 8.13649 110 8.13650 110 8.13651 110									
8.13648 110 8.13649 110 8.13650 110 8.13651 110	KV RORAANWAL	LI (UPS)	0.00	2068216	1200-600/5	10.258			
8.13649 110 8.13650 110 8.13651 110	KV Kharanj KV Gandhar		0.00		1200-600/5 900-450/5	1.600			
8.13651 119	KV GANDHAR UI		0.00	2067742	900-450/5 900-450/.577/1-	2.734 3.107			
B.13652 [139	OV JHEENOWAL	A AP	0.00	2066402	900-450/.577/1-	1.312			
8.13653 118	KV * BHAGSAR AP KV BHAGSAR CA		0.00		900-450/.577/1-	1.000 8.195			
8.13654 116 8.13655 116	KV TELUPURA		0.00	23626	900-450/577/1- 1200-600/5	1.345 1.836			
8.13656 110	KV ROHIWALA		0.00	15193842	1200-600/5	1,558			
8.13657 110 8.13658 110		ew	0.00	15194788 4814	900-450/.577/1- 1200-600/5	7.004 0.940			
Ro	of Top Solar on Access		0.00			131.37	10.283		
Difference in it	nput Energy due to injection a	f renewable energy at	100000				10.143		
11/66 kv level	in the system Tota	d (MU)	546.89 540	37,64 0.00	Total (MU)	74650.00	10.28		
					Net input		- 77	-54	
	Net input energy at D	NSCOM periphery (MU)		54037.64	energy at DISCOM	The state of	74639.71		
					periphery (MU)				
Color	Parameter								
code	ase enter voltage level or leav	e blank							1
Ple	sese enter feeder id and name								- 1
Ent	ter meter no or leave blank ter CT/PT ratio or leave blank								
O . Ple	ase enter numeric value or 0								
For	rase select yes or no from list rmula protected					100			
I/we underta	ake that the information se	applied in the Form Ir	nput Energy is	accurate to the	est of my knowle	dge			
Authorised Sig	gnatory and Seal	Signature o	d Accredited En	engy					
Signature:		Name							
Name of Energ Registration N		Date				lignature of Chic	f Executive)		1
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	Ravi Verr	na		11.	~			h	
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		Control of the State of the Sta	OWNERS OF TAXABLE	TOTAL CONTRACTOR	77/1/2	Inches on the last	6.0	Orche wise losse	San Street Street	Name and Address of the Owner, where the Owner, which is the Own	STATE OF LA	2707-250	OCCUPATION AND A	In the Party	SERVE ASSESSMENT AND PARTY.	10 SW 15 M	CATE OF STREET
ī	10000000	PER	torus (STATE)		11 - C. C. 150 -		Control of the Control	Targe	year(2018-19)	CENTED DO	200	distribute.	in the Plan	the seeding of the	A STATE OF THE STA	All residences	185-1865
	The state of the s	Marie I was a series	UNITED A	111 - 1015	Contum	rprofile:	THE PARTY OF THE P	THE RESERVE		be of the first	55 100 10		Energy parame		Carrie (SE)	Le	CERT
No	Name of circle	Commer category	No of connection (Mos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load (MW)	Connected Load Un-metered (MW)	Total Connected Load (MW)	% of connected load	input energy (MU)	Meterad	Unmetered/a ssessment energy	Total energy	% of energy consumption	T&O loss (MU)	T&0 to (%)
-		Residential	271327		271327	68%	424.81	0.00	424.81	23.12%		510.98		510.98	22.79%	1000000	100
	VIII N	Agricultural	164	81264	81358	20%	0.62	842.04	842.56	45.85%		1.17	951.51	952.68	42.50%		
1	Barnala	Commercial/Industrial-LT	43534		43534	11%	201.32	0.00	201.32	10.95%	2575.73	191.67		191.67	E55%	333.91	12.96
		Commercial/Industrial-HT	778		778	0%	365.53	0.00	365.53	19.89%		573.93		573.92	25.60%	THE PARTY	227 (3)
_		Others	100		- 100	0%	3.48		3.48	0.39%	1000	12.57		12.57	0.56%	The residence	
-	Sub-total	A COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF T	315841	E1264	397107 472007	100%	995.76	842.04	1837.90	28,74%	2575.732	1290.311264	951.51	2241.82 975.94	300.00% 28.84%	333.91	17.96
		Residential Agricultural	472007	- 116091	116794	72%	696.22 6.14		941.98	38.89%	1	975.94 21.06	1203.85	1224.91	- 36.19%	1000	
	Bathinda	Commercial/Industrial-ET	703 68672	116091	68672	10%	322.82	0.00	322.82	13.33%	3937.65	347.03	4703.85	347.03	10.25%	553,12	14.00
		Commercial/Industrial-HT	910		910	0%	410.05	0.00	410.05	26.93%		742.82		742.82	21.95%	100	-
	The second	Others	378		378	0%	51.16		51.16	2.11%	1	93.63		93.83	2.77%	THE REAL PROPERTY.	
7	Sub-total		542670	116091	658761	100%	2486.39	935.84	2422.23	100.00%	3937.649	2180.685425	1203.85	3384.53	300.00%	553,12	14.05
_		Residential	150795		150795	70%	405.41	0.00	405.41	50.60%	1000	410.91		410.91	49.85%		
		Agricultural	155		355	DN	1.86	0.00	1.86	0.23%	100	3.41	0.00	3.41	0.41%		GR.A
1	City Amritasar	Commercial/Industrial-LT	62967		62967	29%	355.14	0.00	355.14	64.32%	921.21	375.02		375.02	45.50%	96.96	10.53
		Commercial/Industrial-HT	116		116	DN	32.36	0,00	32.36	4.04%	CALLED .	18.20		18.20	2.21%	STATE OF THE PARTY	-
_	Sub-total	Others	271		271 214504	0% 100%	6.48 801.25	0.00	6.48 801.25	100.00%	921.208	16.70	0.00	16.70 824.25	2.03%	26.26	10.53
-	Sub-total	Residential	214504	0	214504 356388	68%	558.26		358.28	29.96%	321.208	721.39	0.09	721.39	330.00%	70.70	10.53
	P.C.	Agricultural	336368 420	313431	113851	22%	2.41	891.07	893.48	47.95%	1	7.51	1023.26	1031.16	45.54%		
	Faridket	Commercial/Indestrial-LT	53403	113431	53403	10%	· 231.34		231.34	12.41%	2707.76	258.52		259.52	11.46%	443.21	16.37
		Commercial/Industrial-HT	644		644	0%	167.51	0.00	157.51	8.99%	1 5 5 5 5	226.82		226.82	10.02%	ER PORT	PETER
		Others	126		126	0%	12.91	0.00	12.91	0.69%		25.65		25.65	1.13%	AND STORY	A STATE OF
	Sub-total		412981	113431	526-112	100%	972.44	891.07	1863.51	100.00%	2707.757	1241.286900	1023.26	2264.54	100.00%	443.21	16.37
	11.0	Residential	541823		541823	74%	682.64		682.64	45.31%		870.65		870.65	+ 46.08%	AND SERVED	PHILIPS I
		Agricultural	1245	102749	103994	14%	6.73	383.59	390.32	25.91%	2134 11	257.16	483.21	501.02 257.16	26.52%	244,73	21.47
×	Gurdaspur	Commercial/Industrial-LT Commercial/Industrial-ST	86325		36325 352	12%	276.08	0.00	276.08 103.50	6.87%	2134.11	132.05		132.06	13.61%	244.73	21.47
		Others	352		220	0%	53.91		53.91	3.58%		128 50		128.50	6.80%	11000111	
-	Sub-total .	DURIT	629965	107749	732714	100%	1122.86	383.59	1506.44	100.00%	2134 105	3406.169013	481.21	1589.38	300.00%	244.73	21.47
-	Japan.	Residential	436817	202749	436817	76%	653.72	0.00	653,72	44.71%	1174.107	657.82		657.82	13.96%	276.72	Carrie Carrie
	1.35	Agricultural	652	59599	60251	10%	3.28	360.47	363.75	74.60%	1	1.97	462.07	463.84	23.95%	原作金融	1884
i.	Hoshiarpur	Commercial/Industrial-LT	76634	-	76614	13%	226.43	0.00	226.43	15.31%	2074.32	234.67		234.67	12.12%	137.37	6.625
		Commercial/Industrial-HT	264		264	0%	222.10		222.10	15.0254		549.69		549.69	28.38%	ATT SHEET	
	1000	Others	172		172	0%	12.66		12.66	0.86%		30.92		30.92	1.60%		
	Sub-total	The state of the s	514519	59599	574118	100%	1118.19	360.47	1478.65	100.00%	2074.318	1474.872	462.07	1936.95	100.00%	137.37	6.621
	15 19 19	Residential	248276	-	248276	65%	315.36	0.00	315.36	27.72%		455.01	£30.77	455.01	30.95%	THE !	3 68
	Firozpur	Agricultural Commercial/Industrial-ET	83	97051	97134 33705	26%	0.40 127.86	582.71	583.12 127.86	51.26% 11.24%	1903.16	129.19	638.01	639.87 129.39	43.53% 8.79%	433.15	22.76
	Hiotpur	Commercial/Industrial-HT	33705		300	97% D%	127.86	0.00	88.37	7.77%	1943.16	158.16		188.35	12.80%	433,113	ZZ.FS
	ALC: N	Others	130		230	0%	22.97	0.00	22.37	2.02%		57.78		57.78	3,93%	2003	
	Sub-total	A STATE OF THE PARTY OF THE PAR	212454	97051	379545	100%	534.95	582.71	1137.66	100.00%	1903.157	831,997469	638.01	1470.00	300.00%	433.15	22.76
Ť		Residential	429455		429455	75%	1061.70	0.00	1061.70	42.22%		951.74		951.74	34.43%	No. 14 10 10 10 10 10 10 10 10 10 10 10 10 10	
	1000	Agricultural	527	25441	25968	5%	2.46	180.49	182.96	7,27%		4.19	217.06	221.55	E01%	The same of	Total .
ı	Islandhar	Commercial/Industrial-LT	113541		113541	20%	730.91	0.00	730.91	29.06%	2931.31	716.61		716.61	25.92%	166.88	5.691
		Commercial/Industrial-HT	156		956	016	462.56	0.00	462.56	18.39%	1	713.05		713.05	25.79%	A ROPE TO SE	
	Sub-cotal	Others	814		814	0%	76.77 2334.40		76.77	3.05N	2931.306	161.46 2547.36048	217.06	161.46 2764.42	5.84%	166.58	5,691
1	360 COTA1	Paral de maior	541293	25441	570734 321393	100%		180.49	2514.89 547.03	100.00% 37.55%	2931.306		217.06	2764.42 590.08	100.00% 36.09%	155.58	3.69
	The line	Residential Agricultural	321193	91032	321393 93423	20%	547.01 2.31	0.00 585.08	587.38	40.32%		590.08 9.76	661.06	670.83	41.02%		PROPERTY.
	Kapurthala	Commercial/Industrial-LT	50837	91032	50857	11%	165.31	0.00	165.31	11.35%	1864.25	150.22	501.00	150.22	9.19%	229.07	12.29
1		Commercial/Industrial-HT	380		380 '	0%	149.91		143.31	9.84%		200.02		200.02	12.23%		EFRE
		Others	79		79	0%	13.74		13.71	0.94%	1	24.03		24.03	1.47%	Control of the last	

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P.S.P.C.	Patiala

	Sub-total	PROGRAMME AND PUBLISHED AND	373200	91032	46413Z	100%	871.67	585.08	1456.75	200,00%	1864.247	974.114043	641.06	1615.18	100.00%	229.07	100
		Residential	251429		251409	71%	435.47		435.47	21.09%		540.22		540.22	12.84%	100000000000000000000000000000000000000	
	A CONTRACTOR OF THE PARTY OF TH	Agricultural	17	57567	57584	16%	0.10		443.40	21.47%	1	0.02	463.72	463.74	11.02N		н
10	Khanna	Commercial/Industrial-LT	42593	-	42593	12%	235.10	0.00	235,10	11.38%	4270.90	1420.90		1420.90	33.78%	64.36	Н
1	The second second	Commercial/Industrial-HT	926		926	O'N	948.02		948.02	45,90%		1768.69		1768.69	42.05%		н
	THE RESERVE	Others	116		116	0%	3.24		3.24	0.16%		13.00		13.00	0.31%		н
	Sub-total		295061	57567	352628	100%	1621.92	443.29	2065.21	200,00%	4270.903		463.72	4206.54	100.00%	64.36	1
		Residential	272010	ar ser	172010	34% I	942.54		942.54	43.35%	10,000	682.96		682.96	26.07%	Out markets	Ħ
	8 (1)	Agricultural	18	13149	13167	4%	0.17		124.07	5.71%	1	0.16	175.76	175.92	6.72%		Н
11	Mohali	Commercial/industrial-LT	36637	12143	36637	11%	496.16		496.16	22.82%	2741.80	676.38	212.70	675.36	25.82%	122.11	ı
1"	Personal	Commercial/Industrial-HT	633		633	6%	565.14		\$65.14	25.99%	2742.00	1012.08		1012.08	38.64%		П
			414		414	0%	365.14 46.30		46.30	2.17%	-	72.17		72.17	2,74%		П
\vdash		Others									-		*****			122.11	+
-	Sub-total	Reservation (Control of the	309712	13149	322861	100%	2050.31	173.90	2174.21	200.00%	2741.799	2443.727753	175,76	2619.48	100.00%	122.11	4
	1000000	Residential	290795		290795	76%	461.71		461.71	46.69%		425.12		425.12	38.90%		п
	47 37 38/10	Agricultural	385	46378	46763	12%	1.32		291.56	29.49%	10000000	3.04	386.14	389.18	35.61%		П
12	Nawanshahar	Commercial/Industrial-LT	42641		42641	11%	155.11		155.11	15.69%	1254.31	140.52	4	140.52	12.86%	161.39	П
	College Cooper	Commercial/Industrial-HT	162		162	ON.	77.49		77,49	7.84%		132.56		132.56	12.13%		н
	A. Landerson	Others	25		25	0%	2.51	0.00	2.91	0.29%		5.54		5.54	0.51%		1
1100	Sub-total	Marine 20	334008	46378	180386	100%	614.05	289.74	268.78	200.00%	1254.309	706.778454	386.14	1092.92	100.00%	. 161,39	1
		Residential	430246		430246	74%	842.50		842.50	34.26%		925.76		925.26	30.47%	30 s.49 989 c.L.C	1
	1000	Agricultural	413	75226	75669	13%	2.99		794.11	32.29%	1	8.43	777.26	785.69	25.88%		ı
13	Pattela	Commercial/Industrial-LT	75814	12279	75814	11%	391.01		391.01	15.90%	3387.60	385.(0)	773.20	385.60	12.70%	351.13	1
1"	Patient	Commercial/Industrial-HT	73814		786	0%	386.54		391.01	15.72%	1	835.51		835.51	27.52%	10000	1
1	1997 617		786		344	0%	386.54 44.95		44,95	1.83%	4	104.41		104.41	3.44%		1
-		Others									-						4
	Sub-total		507633	75226	582859	100%	1668.00	791.11	2459.11	200.00%	3387.6	2259,209203	717.26	3036.47	100.00%	351.13	4
	A STATE OF THE STA	Residential	346429		346428	77%	636.52		636.52	34.83%		581.82		581.82	18.57%		н
100	The second second	Agricultural	2947	50224	57171	32%	14.01		296.14	16.21%		1.49	429.93	431.41	13.77%		п
14	Ropar	Commercial/indicatrial-LT	50761		50761	31%	236.99		236,99	12.97%	3254.79	252.13	100	252,13	8.05%	161.15	Н
	100000	Commercial/Industrial-HT	560		560	0%	636.27	0.00	636.27	34.82%		1823.90		1823.90	58.20%		П
	100	Others	236		236	0%	21.51	D.00	21.51	1.18%		44.36		44.36	1.42%		Ш
	Sub-total	Committee of the commit	399932	50224	450156	100%	1545.31	282.14	1827.44	200.00%	3294,785	1203.705622	429.93	3131.63	100.00%	161.15	т
		Residential	262907		262507	GPN I	365.78	+ 0.00	365.78	21.46%	100	480.15		480.15	74.10%	Military States	т
1		Agricultural	194	85932	86125	22%	1.54		1016.96	59.66%	The same	9.16	1021.73	1031.09	31.75%		н
15	Sangrur	Commercial/Industrial-LT	38663	42775	38663	30%	158.27		158.27	9.28%	2445.11	167.14		167,34	8.40%	452.70	п
		Commercial/Industrial-HT	754		754	0%	160.18		160.18	9.40%	THE REAL PROPERTY.	304.93		304.93	15.30%		П
		Others	17		37	0%	3.44		3.44	0.20%		8.19		8.99	0.45%		Н
-	Sub-total	Ckners	302555	85932	388487	100%	689.22	1015.41	1204.63	200,00%	2445,114	970.683713	1021.73	1992.42	100.00%	452.78	+
	SOD-COLAR			H2235	384964					19 12%	2443.134		PRETTY.	761.13	42.64%	432.70	+
1		Residential	384954			71%	498.24		498,24		-	761.13					п
1	CONTRACTOR CONTRACTOR CO	Agricultural	3.2	106007	106089	20%	0.50		441.04	34.63%		8.99	408.43	409.39	25.62%		П
16	Sri Muktsar Sahili	Commercial/Industrial-LT	51522		51522	2%	206.42		206.42	16.21%	1985.64	200.76		200.86	12.57%	387.85	П
		Commercial/Industrial-HT	370		370	0%	121.09		171.09	9.51%	1	205.41		205.41	12.85%		П
		Others	54	and the second	54	0%	6,77	0.00	6.77	0.51%		21.00		21.00	1.33%		1
1111	Sub-total	Minimum Land	437022	108007	545029	100%	833.01	440.54	1273.55	200.00%	1985.638	1189,390638	408.40	1597.79	100.00%	387.85	1
		Residential	368269		368269	74%	610.55	0.00	610.55	41.02%		745.47		745.97	37.14%	SECTION !	Т
ı	0.00	Agricultural	1309	75966	77275	16%	6.12		413.35	27.77%		49.92	452.34	502.26	25.01%		ı
17	Suburban, Amritsar	Commercial/Industrial-LT	48684	10000	48684	10%	276.36		276.36	18.57%	2512.26	314.48		314,48	15.66%	503.87	ı
1 "	E 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Commercial/Industrial-HT	417		417	ON I	153.38		153.38	10.30%		371.34		371.34	18.49%		П
1	The second second	Others	285		285	0%	34,94		34.94	2.35%		74.15		74.15	3.70%		۱
	Sub-tetal	GEOGRAPHICA CONTRACTOR OF THE	418964	75966	494930	100%	1081.16	407.23	1488.50	100.00%	2512.25	1556.055706	452.34	2008.19	100.00%	503.87	+
		and desired		/3766					372.75		DIEAD	471.17	492.54	471.37	33.38%	303.47	٠
	DATE OF THE PARTY	Residential	283431	-	280431	69%	372.75			11.77%	Track 18		760.77	713.36			ı
L.,		Agricultural	107	93896	94003	23%	0.77		602.87	51.38N	-	9.49	703.87		50.51%	-	1
18	Tarantaran	Commercial/industrial-LT	32905		32905	IN IN	111.74		111.74	9.52N	2044.75	120.32		120.32	8.52N	632.44	ı
1		Commercial/industrial-HT	144		144	0%	65.47		65.47	5.58%	The state of	69.11		69.31	4.91%		
		Others	80		80	0%	20.47		20.47	1.74%		37.96		37.96	2.69%	THE REAL PROPERTY.	4
	Sub-total	MENCHANT CHIEF.	313667	93896	407563	100%	571.19	602.10	1173.29	100,00%	2044.751	708.443744	703.87	1412.31	100.00%	632.44	1
	The same of the sa	Residential	200318		300318	69%	463.67		463.67	30.96%		481.64		481.84	15.05%		I
1	11	Agricultural	393	3265	3658	1%	1.43	20.16	21.59	0.98%		1.42	16.09	17.52	0.55%		۱
19	Euchiana East	Commercial/Industrial-LT	13664		E3664	29%	831.51		831.51	37.59%	3319.79	852.90		852.90	26.63%	117.58	1
1		Commercial/Industrial-HT	1156		1156	67%	. 880.34		880.14	39.80%		1806.45		1806.4B	56.48%		1
1		Others	541		541	0%	14.82		14.82	0.67%		41.47		41.47	1.30%		ı
	Sub-total		286072	3265	289337	100%	2191.77		2211.93	100.00%	3319,788	3186.31361	16.09	3202.23	100.00%	117.58	Ħ
	1	Residential	258613	34.0	298613	76%	1057.01		1057.01	38.85%		902.90		902.90	27.13%		Ħ
1		Agricultural	238613	4572	5036	1%	2.31		27.04	0.99%	+	1 11	23.73	24.96	0.75%		1
20	Ludhiana West	Commercial/Industrial-LT	88019	4572	88019	22%	Q60,42		960.42	35.30%	3504.03	888.13	25.73	E88.13	26.60%	176.79	1
1 40	Lumana west	Commercial/maurime-CT	88019		BRULY	22%	1. 01032		350,14	33.30%	230-33			500.17	40.07%	7-97-00-00	-
						D	V.C.E.										



1	THE STREET STREET	Commercial/Industrial-HT	770		770	0%	638.53	0.00	638.52	23.47%	1	1405.01		1405.01	42.22%	STATE OF THE PARTY	SHIP STREET, NO.
\vdash	2000	Others	517		517	0%	37.45	0.00	37.45	1.38%		306,73		106.73	3.71%		
-	Sub-total	Residential	388373 246841	4572	391945 246841	100%	2695.72	24.73	2720.45 432.53	100.00% 33.03%	3504.025	3303.99981 479.60		3327.71 479.60	100.00%	176.29	5.03%
		Agricultural	96	68117	68213	19%	0.51		517.59	39.52%	1	0.67		570.7B	31.86% 37.92%		
21	Ludhiana Suburban	Commercial/Industrial-LT	37380		37380	11%	177.84	0.00	177.84	13.58%	1680.29	148,99		148,99	9.90%	174.93	10.41%
	A STATE OF THE STA	Commercial/Industrial-HT	547		547	0%	175.52		175.52 6.27	0.48%		289.34		289,34 16.65	19,22%		
	Sub-total	uvers	284923	68117	353040	100%	792.75	\$17.01	1309.76	100.00%	1680.294	935.253724	570.11	1505.36	100.00%	174.93	10.41%
		Residential	0	0	0	#DIV/OI	0.00	0.00	0.00	#OW/OF	1	Topiese, ex		0.00	0.00%	11-01	10117
22	Thaft Units, Short Assesment Unbilled	Renicultural Commercial/Industrial-LT	0	9	0	#DIV/OI	0.00	0.00	0.00	#DIV/OF	546.89			0.00	0.00%		
1-	revenue(eq units)	Commercial/Industrial-HT	0	0	0	#DIV/OI	0.00	0.00	0.00	#DIV/OR	349.89			0.00	0.00%	1049.00	191.96N
┕		Others	0	0	0	#DIV/01	0.00	0.00	6.00	#DIV/OI		-265.57	-232.94	-502.91	100,00%		
-	Sub-total Misc. Adustment to	Residential	0	0	0	300%	0.00	0.00	0.00	100,00%	546.89	-269.97	-212.94	-502.91	100.00%	1049.50	191.96%
	match with sale as		0	0	0	#DIV/01	0.00	0.00	0.00	#DIV/OI	1	0	0.00	0.00	#DIV/01 #DIV/01		
23	taken by Planning	Commercial/Industrial-LT	0	0	0	#DIV/01	0.00	0.00	0.00	#DIV/OI	1	0	0.00	0.00	#DIV/01	0.00	#DIV/DI
	Organisation due to Temporary Supply,	Commercial/Industrial-HT Others	0	0	0	#DIV/Q!	0.00	0.00	0.00	#DIV/01		0	0.00	0.00	#DIV/01		
100	Sub-total	Utrers	0	0	0	100%	0.00	0.00	0.00	#DIV/DI 100.00%		0	0.00	0.00	#DIV/01 100.00%	9.00	#DIV/01
	The state of	Residential	6863542		6863542	72%	12464.45	0.00	12464.45	34.23%	0.39679	13622.85949	0.00	13622.86	28.96%	4440	4011701
THE .	Total	Agricultural Commercial/Industrial-LT	9925 1218901	1368957	1375882"	15%	58.56 6874.14	9718.64 0.00	9777.19 6874.14	26.85%	54037,635	135,46 #229,616337	11069.10	11224.56	23.56%		
							6874.14						0.00				
76	100			0		0%	6303.23	0.00			54087,635			8229.62	17.49%	6994.21	12,94%
		Cummercial/industrial-HT Others	11925 4998	0 0	31925 4998	0% 0%	6803.23 497.13	0.00	6803.23 497.13	18.68%	建 加	13371.31137 828.015291	-232.94	13371.31 595.08	28.42% 1.26%		
Color r	At company level Parameter Plaste enter name of Plaste enter circle	Cummercial/Industrial-HT Cithers	11925 4998 8109291	1168957	11925 4991 9475248				6803.21	18.68%	建 加	13371.31137	-232.94	13371.31	28.42%	694213	12.54%
Color P Code O Type infer the I to the North Color Co	At company level Parameter Please enter name of Please enter rolle Please enter conte Formal protected to romation supplied in Forms () is accurate to be to firmy microlese to firmy microlese m	Cameracial/Industrial-HT Others	11925 4998 8109291	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	建 加	13371-31137 E2E.015391 36207-28	-232.94	13371.31 595.08	28.42% 1.26%		
Color P Code O Type infer the I to the North Color Co	At company level Parameter C Place enter name of Place enter curetic Formula procedule control supplied in Formula procedule control of promission of promission of promission promission of	Commercial/Industrial-HT Others If	1995 4998 8109291 Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	54037.64	13371.31137 EZE.015331 36207.25	-232.94	13371.31 595.08	28.42% 1.26%		
Color r code	At company level Parameter Place enter name of Place enter content promula procedule remation supplied in Form \$1 is accurate the best of my whelede.	Commerce (All Industrials HT Others Dies E Signature of Energy Manager Hans	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	54037.64	13371.31137 EZE.015331 36207.25	-232.94	13371.31 595.08	28.42% 1.26%		
Cole F Code O T/we infer the I to the Name of	At campany level Please enter name of Please enter name of Please enter rate Flease enter rate c under chart that the constant that the control of the provided in Form Si is accurate to be best of my wiledee. ordised Signatory and 5 Control of Control of Control of	Commercial Analogous and Colors E E Signature of Courty Manager Here Court Court of Aurorities Courty Manager Court of Aurorities Courty Manager Commercial Cour	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	54037.64	13371.31137 EZE.015331 36207.25	-232.94	13371.31 595.08	28.42% 1.26%		
Cole F Code O T/we infer the I to the Name of	At campany level Parameter Place enter name of Place enter code	Commercial Industrial HT Others If If If If If If If If If I	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	54037.64	13371.31137 EZE.015331 36207.25	-232.94	13371.31 595.08	28.42% 1.26%		
Cole F Code O T/we infer the I to the Name of	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analogous and Colors E E Signature of Courty Manager Here Court Court of Aurorities Courty Manager Court of Aurorities Courty Manager Commercial Cour	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	6803.23 497.13 36416.13	18.68% 137% 100.00%	54037.64	13371.31137 EZE.015331 36207.25	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680.13 497.13 18416.13	18.6% 137% 100.0%	S4037.64 S4037.64 Ure of Chief East	3372,3137, 828,015,81 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	18.6% 137% 100.0%	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full.	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		
Color Code O Tyme infectibe I to the I to the Name of Full I	At campany level Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter crists Please enter runner P	Commercial Analysis and Colors E Signature of Corry Manager Here Colors Signature of Averaged Congr. Hanne Signature of Averaged Congr.	Er. Rav CA- 796 Energy A	i Vern	11925 4594 3473248	0%	497.13	9.00 9718.64	680123 497.13 18416.13	13.60N 137% 100.00N	S4037.64 S4037.64 Ure of Chief Eastern Conganisation to	3372,3137, 878,015,931 36,07,38	-232.94	13371.31 595.08	28.42% 1.26%		



10	IDansa Schleigt	Paradential Agricultural Commercial/Industrial-CF Commercial/Industrial-RT Others	295741 10 52821 561 190 349723	\$7643 \$7549	295741 57659 52821 961 190	77% 34% 17% 0% 0%	587.25 0.07 323.65 2684.75 22.32 2618.3505	503.66	567.253 501.786 328.9525 1684.748 22.324	10% 10% 10% 10% 54% 1%	7036.58442	734 60 2.74 66 263 34 5160 66 34 60 8206 14284 581.0	734.60 1.01 583.76 283.34 5160.86 34.60	8.60% 0.17% 76.04% 0.36%	249.4289	251%		
11	Mohali	Residential Agricultural Cammanial/Industrial-CT Cammanial/Industrial-MT	400641 10 54481 819	11345	600641 13355 54481 819	85% 3% 13% 0%	1507.98 0.11 792.49 760.65	138.04	1507.982	#6% #% 24% 23%	4170.73911	1283 08	9.51 229.63 9.51 325.85 925.85	31.67% 5.67% 22.84%	219.8178			
	Sob-tetal	Onen	456425	11341	674 469970	0% 100%	46.68 1397.9058		2245.9447E	1%		76.62	76.62	1.89%	1	2.87%		
12	200	Residential Agricultural Commercial/Industrial LT Commercial/Industrial HT	330409 369 50557	46453	830403 46820 50537 179	77% 11% 12%	628.91 2.01 192.54 105.61	344.00	628.91	17% 27% 15%	1739.432	010.04	418.84 471 418.99 181.98 137.92	39.62% 39.62%	176 9664	10.17%		
	Sub-total	Criters Firstfentul	861554 511543	86451 ,	40 428005 511543	0% 100% 73%	992.287 1109.92	343.597	3.002 1274.384 1309.917	2% 300%	1779.41204	4.74 547.7565 614.7 1307.75	4.74	0.30% 100.00%	176.9644	10.17%		
13	Patala	Agricultural Commercial/Industrial-InT Commercial/Industrial-InT Others	90231 90231 566 387	75894	76345 90731 366 387	11% 13% 0%	3.37 526.74 505.71 33.23	895.42	958.842 526.741 505.724 38.251	29% 17% 16% 3%	4690.05385	5.25 105 493.62 1203.29 97.65	6 09 1068.85 493.62 1203.29 97.65	25.53% 11.85% 28.89% 2.34%	525.4033	11.20%		
mil	Sub-total	Residential	603178 . 445761	75894	679072 445761	100% 79%	2178,992	895.473	1074.465 1038.248	300% 40%	4651.05385	3107.55646 1058.6 1018.43		100.00%	525.4033	11.20%		
14	Acpor	Agricultural Commercial/Industrial-ET Commercial/Industrial-ET	592 64520 682	51784	\$2376 64520 682	9% 11% 0%	3.82 374,70 871.27	326.49	330.314 374.7 871.274 12.257	13% 14% 13%	4551.10106	1.36 59 374.18 2375.55		13.47% 8.53% 54.15% 0.62%	163.8551	1.60%		
6811	Sob-total	Others	297 511852	51784	297 543436	100%	12.26 2100.302	326.491	2526.793	100%	4551.10104	27.41 3796.92843 \$10.3	007.15	100.00%	169.8551	1.60%		
15	Sangrur	Residential Agricultural Commercial/Industrial LT Commercial/Industrial HE	301474 297 49230 501	84279	301474 86475 49330 501	20% 20% 21% 0%	538.55 1.50 262.83 347.84	1160 90	538.55 1162.607 262.854 197.893	25% 54% 12% 9%	2530.78654	5 62 + 144 252 09 404 54	253.09 406.84	50.66% 8.82% 14.16%	672.647	29.03%		
	Sub-held.	Others	353445	84274	437723	100%	367 2004.45		2165.354	100%	3530,71654	7.37 3417.2085 1441.5	7.37		672.047	13.03%		
26	Sri Mulmar Sehih	Residential Agricultural Communical/Industrial-CT Communical/Industrial-ICT	454947 189 63154 436	111028 0	464967 113217 63164 416	77% 18% 30% ON	0.96 0.96 285.97 138.81	487.56	699.546 468.513 265.973 138.607	87% 30% 18%	2795.22957	211 54 278 87	0 00 1113.30 0 34 546.44 0 00 178.87 0 00 166.67	52.43% 25.72% 13.13%	660.8779	23.72%		
	Sub-total	Others	55		55 619799	100%	6.52 2131,302	0.00	6.52	10%	1	20 17 1578.01489 546.3	20.17	0.95% 100.00%	1	23,79%		
1	SUS-IMM	Residential	506771 441688	111020	443688	76%	824,91		124.91339	300N	2745.22957	1025.37	3025.37	41.77%	140.8775	13.75%		
17	Suburban, American	Agricultural Commercial/Andustrial-ET Commercial/Andustrial-ET Others	1279 57231 279	716(1)	77888 57231 279 409	33% 30% 6% 6%	6.17 381,34 168,86 35,86		446.906.545 381.33998 168.656 33.863	24% 23% 9% 2%	8419.19	36.71 51 454.29 350.20	8 90 355.31 454 29 350 20 69.35		964,6672	28.21%		
0	Sub-total	Basification	500886	76601	577405 329747	100% 71%	1417.0964	445,788545		300N 37% -	3419.18661	1935.935 518.6	0 2454.52 697.16		964.6472	28.21%		
15	Taractaran	Agricultural Commercial/Industrial LT Commercial/Industrial HT	329747 347 38827 114 88	94305	14152 18827 114	20% 8% 0%	557.85 1.16 148.73 85.34 15.09	711.92		67% 10% 6%	2830.45278	697,16 6,49 60 143,12 86,41 20,35	1.08 857.57 348.12 86.41 20.35	47.52% 7.92% 4.79%	1025.849	36.24%		
	Sub-tetal	Others	368928	94205	463128	100%	806,171	713.915	1122.004	300%	2630.45278	953.5194 851.0	1804.60	100.00%	1025.849	36.24%		
19	Luchiera East	Residential Agricultural Comment all'Industrial CT Comment all'Industrial ET Others	245008 383 93209 1334 701	3264	345008 3457 33209 1334 701	77% 1% 27% 6%	152.45 1.43 945.06 879.05	21.30	152.45 12.733 945.064 879.098 11.582	23% 23% 36% 36%	3681.85576	657.01 9.21 2 1015.29 2117.53	857.01 0.40 30.41 3015.25 2117.53	15.21%	51.17471	1178		
	Sub-total ,		340645	3264	343909	100%	2389.571	21.301	2410.922	100%	3881.85576	3810.278 20.40		100.00%	51.17471	132%		
20	Ludhiena West	Residential Agricultural Commercia/Industrial-ST Commercia/Industrial-HT Others	374554 456 303348 1844 926	4555	374654 5011 303348 3044 824	27% 21% 21% 5%	2379 63 233 2351 33 848 68 24 34	25.87		1% 1% 15% 25%	4396.02864	1261.68 2.00 2 1102.07 1646.52 51.54	120168 027 81,27 1102.07 1646.52 51,54	0.76% 28.91% 40.23%	292.9559	-		
	Sub-total	Besidential	480428	4555	454953	100%	3305,349	25.865	8332,314	100%	4386.02864			100.00%	292.9559	6.68%		
21	Luchiana Suburban	Pendential Agricultural Commento/Industrial-LT Commento/Industrial-LT Others	294340 93 46275 558	68164	68437 46275 598	17% 11% 9%	0.62 255.28 226.90	625.87	626.49 -255.284 236.899	36% 15% 13%	2350.95754	1.58 79 225.27 363.19	749.52 0.87 792.46 225.27 353.19	37.09% 10.54% 16.53%	214,387	9.12%		
-	Sub-total	OTHIN COLUMN	341354	58344	48 409698	100%	7.82		7.A18 1745.872	100%	2350.95758	16 34 1345.7236 790.8		0.76% 100.00%	214.387	9.12%		

22 Assess	Inits, Short vent Unbilled e(eq units)	Residential Agricultural Commercia/Industrial Commercia/Industrial Others	17 8 HT 0	0 0 0	0 0	#01V/08 #01V/03 #01V/03 #01V/03	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#0/V/01 #0/V/01 #0/V/01 #0/V/01	0	0 0 0	0.00 0.00 0.00 0.00 255.56	0.00 0.00 0.00 0.00 255.56	0.00% 0.00% 0.00% 0.00%	-215.56	MONV/GI
23 taken Organi	Advisionent to 1 with sale as 1 by Planning Kation due to overy Supply,	Roudestal Agricultural Commercia/Industrial Commercial/Industrial Others	0 6	0 0	0 0	#DIV/OI #DIV/OI #DIV/OI #DIV/OI	8	0 9 0 0 0 0 0 0 0 0 0 0 0 0	100% #DM/01 #DM/01 #DM/01 #DM/01	0	0 0 0	255.58 D.CE 8.00 0.00	0.00 0.00 0.00 0.00	100,00% 0,00% 0,00% 0,00%	92,99915	#DIV/DI
36	Sub-total Total	Rosidential Agricultural Commercia/Industrial Commercia/Industrial	8151277 8354 7 1446905	1383820	1446905	13%	9003.1729	0 0 0 0 0 0 0 0 0 17259.50 0 17259.50 0 9003.1726	57 24% 89 19%	0	-92.9991572 -92.9991572 20124.97986 125.467 8930.70539	0.00	-93.00 -93.00 20124.98 14967.02 8990.71	100.00% 190.00% 30.75% 22.67% 13.65%	92,99916	#51V/01
77	At company level	Others	7 11992 4574 9625136	0 0 1383828	11992 6578 1100896	0% 0% 100%	9073.17 465.23414 35848.255 314	0 9073.169 0 465.234 161.44337 47309.690	6 19% 4 1%		20294.55257 876.5686628 50352.29	255.56	20294.55 1112.15 65449.41	31.01% 1.73%	9190.303	
	ike that the informat	on supplied in the Form	S) is accurate to the h	nt of my knowled	lge.			Ener	gy Auc	litor						
Name of Author Name of Author Name of the	ika that the informat gnatory and Seal orford Signatory: Pesignosed Communer		S) is accurate to the hi	1	C.E. JE	D.S.M. Patials	Signature- Sume of Energy is Registration Num	PSPC	gy Auc L, Pat						,	
Name of Author Name of Author Name of the	enatory and Seal orised Signatory: Pesignated Communer		cement	1	1/2	D.S.M. Patials	Name of Energy b	PSPC								
Name of Author Name of Author Name of the	enatory and Seal orised Signatory: Pesignated Communer	Ne A & Enforce	cement	1	1/2	D.S.M. Patials	Name of Energy b	PSPC								
Authorised Sig Name of Autho	enatory and Seal orised Signatory: Pesignated Communer	Ne A & Enforce	cement	1	1/2	D.S.M. Patials	Name of Energy b	PSPC								

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1.29 Signed Form 1:

	Form 1 [See rule 3]					
tails	of information regarding Total Energy Consumed and o	Consumption	Per unit of Produ	uction		
	-A (General Information Details) General Details	y Consump				
	Name of the Unit	Description Punjab State Power Corporation Limited (PSPCL)				
	(i) Year of Establishment	Punjab State P	2010	annica (i oi oc)		
	(ii) Registration No (As provided by BEE)		DIS0014PB			
	Sector and Sub-Sector in which the Designated Consumer falls	Se	ector	Sub-Sector		
	Control talls	Electricity Distri	bution Companies	CDC1 0476		
(1)	Complete address of DCs Unit location (Including Chief Executive's name & designation) with mobile, telephone, fax nos & e-mail.	2212005,0175-2				
11)	Registered Office address with telephone, fax nos. & e-mail	Audit & Enforce Patiala,Patiala,1 2215774,0175-2		, Shakti Vihar, ab,147001,0175-		
(m)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Cr. Pavi Verma	ASE EA EA-7969	96461 18860		
	Telephone, Fax nos & e-mail n - B (Production and Energy Consumption Details)	Er. Ravi Veillia	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,50401 10000,		
5.1	Aluminium, Cement, Chlor Alkali, Iron & Stool F					
(a)	Aluminium, Comont, Chlor Alkali, Iron & Stool, Fortilizor, Pulp & Production details	Paper, Toxtil	e, and Petro-Che	mical sectors		
	Name of Products	Unit	Base Year (2018-	Current Year (2024-25)		
(i)	Product 1	(1)	(2)	(3)		
(ii)	Product 2	Tonne	N/A	N/A		
(111)	Product 3	Tonne	N/A N/A	N/A		
(v)	Product (Please add extra rows in case of additional products) Total Equivalent Product	Tonne	N/A N/A	N/A N/A		
(b)	Energy Consumption Details	Tonne	N/A	· N/A		
(1)	Total Electricity Purchased from Grid/Other Source	Million kwh	1 1/4			
(H)	Total Electricity Generaled	Million kwh	N/A N/A	N/A N/A		
(iv)	Total Electrical Energy Consumption	Million kwh	N/A	N/A		
(v)	Total Solid Fuel Consumption	Million kwh	N/A	N/A		
(vi)	Total Liquid Fuel Consumption	Million kCal Million kCal	N/A N/A	N/A		
(AII)	Total Gaseous Fuel Consumption Total Thermal Energy Consumption	Million kCal	N/A	N/A N/A		
(IX)	Total Energy Consumption (Thermal + Electrical)	Million kCal	N/A	N/A		
(x)	Total Normalized Energy Consumption (Thermal + Electrical)	TOE	N/A	N/A		
(c)	Specific Energy Consumption Details		N/A	N/A		
(11)	Specific Energy Consumption(Without Normalization) Specific Energy Consumption (Normalized)	TOE/Tonne	N/A	N/A		
5.2	Thermal Power Stations (Coal/Oil/Gas/others) notified as Designate	TOE/Tonne	N/A	N/A		
(1)	Total Capacity	MW	N/A	N/A		
(ii)	Unit Configuration	No. of units with their capacity	N/A	N/A		
(III) (IV)	Annual Gross Generation	Million kWh	N/A	N/A		
(v)	Annual Plant Load Factor (PLF) Station Gross Design Heat Rate	% kcal/kWh	N/A	N/A		
(vi)	Station Gross Operative Heat Rate	kcal/kWh	N/A N/A	N/A N/A		
(viii)	Auxiliary Power Consumption	%	N/A	N/A		
(ix)	Operative Net Heat Rate (Normalized)	kcal/kWh kcal/kWh	N/A	N/A		
5.3	Petroleum Refinery notified as Designated Consumer	NO SHIRWYN	N/A	N/A		
(a)	Crude Oil Processed Details	The				
(i)	Throughput (Total Crude Oil Processed)	Thousand Barrels (Mbbls)	· N/A,	N/A		
(ii)	NRGF (Without Normalization)		N/A	N/A		
(b)	NRGF(Normalized) Energy Consumption Details		N/A	N/A		
(i)	Total Electricity Purchased from Grid/Other Source	Million kwh	N/A	N/A		
(11)	Total Electricity Generated	Million kwh Million kwh	N/A N/A	N/A N/A		
(iii)	Total Electricity Exported Total Electricity Consumed in the Plant	Million kwh	N/A N/A	N/A		
(v)	Total Electrical Energy Consumption	SRFT	. N/A	N/A		
(vi)	Total Solid Fuel Consumption	SRFT	N/A N/A	N/A N/A		
(vii		SRFT	N/A	N/A		
(ix)	Total Gaseous Fuel Consumption Total Thermal Energy Consumption	SRFT	N/A	N/A		
(x)	Total Steam Exported/Consumed + Electrical)	SRFT	N/A N/A	N/A N/A		
(x)	Trotal Energy Consumption (Therman	BARACTELL	N/A	N/A		
(x)	Specific For Consumption Details Cavi VCTN1	1				
(10)	EA. 7969 Eacrgy Auditor	4	Dy.	d. A. XD.S.M.		



	D. A. Mormalization)	MMBTU/Mbbls		· · · · · · · · · · · · · · · · · · ·
(1)	Specific Energy Consumption(Without Normalization)	/NRGF (MBN) MMBTU/Mbbls	N/A	N/A
(ii)	Specific Energy Consumption (Normalized)	MRGF	N/A	N/A
5.4	Electricity Distribution Companies notified as Designated Consu	nor		
(a) (i)	Energy Input Details	Million	£5000.00	70044.54
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmissio	Million kwh	55369.88	78611.54
(")	llosses and energy traded)		54037.64	74639.71
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)) Million kwh	47043.42	65449.41
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	8326.46	13162.13
	Inter state Transmission losses (Inclid BBMB) =1638.61 MU Intra state transmission losses (PSTCL+DISCOM Sub transmission losses)			
	=2335 22 MU PSPCL Distribution Losses (2018-19) = (54037.64-47043.42)/54037.64 =6994 22 MU (12 94%)	%	15.04	16.74
	PSPCL Distribution Losses (2024-25) = (74639.71-65449.41)/74639.71 = 9190.30 (12.31%)			
5.5	Railways units notified as Designated Consumer			•——
5.5.1	Zonal Units Notified as Designated Consumers	1		
(a)	Gross Tonne Kilometrage Gross Tonne Kilometrage (For Diesel-Passenger)	GTKm T	N/A	N/A
(11)	Gross Tonne Kilometrage (For Diesel-Goods)	GTKm ·	N/A	N/A
(111)	Gross Tonne Kilometrage (For Electrical-Passenger) Gross Tonne Kilometrage (For Electrical-Goods)	GTKm GTKm	N/A	N/A N/A
(iv)	Energy Consumption Details	JOTAII .	N/A	N/A
(1)	Diesel Consumption for Gross Tonne Kilometrage (for Passenger)	KL KL	N/A	N/A
(ii) (iii)	Diesel Consumption for Gross Tonne Kilometrage (for Goods) Electricity Consumption for Gross Tonne Kilometrage (for Passenger)	Million kWh	N/A N/A	N/A N/A
(iv)	Electricity Consumption for Gross Tonne Kilometrage (for Goods)	Million kWh	N/A	N/A
(c)	Specific Energy Consumption Details Specific Energy Consumption of Diesel for Passenger (Without	I. wassami.		
(i)	Normalization)	L/1000GTKm	· N/A	, N/A
(ii)	Specific Energy Consumption of Diesel for Goods (Without Normalization)	L/1000GTKm	N/A	N/A
(iii)	Specific Energy Consumption of Electrical for Passenger(Without Normalization)	kWh/1000GTK m	N/A	N/A
(iv)	Specific Energy Consumption of Electrical for Goods (Without Normalization)	kWh/1000GTK m	N/A·	N/A
(v)	Specific Energy Consumption of Diesel for Passenger (With Normalization)	L/1000GTKm	N/A	N/A
vi)	Specific Energy Consumption of Diesel for Goods (With Normalization)	L/1000GTKm	N/A	N/A
VII)	Specific Energy Consumption of Electrical for Passenger(With Normalization)	kWh/1000GTK m	N/A	N/A
	Specific Energy Consumption of Electrical for Goods (With Normalization)	kWh/1000GTK m	N/A	N/A
.5.2	Railway Production Units Notified as Designated Consumer	<u> </u>		
	Production Details		11/4	N/A
	Total Major Production Total Minor Production	No of units	N/A N/A	N/A
11)	Total Other Product-1	No of units	N/A	N/A
	Total Other Product-2 Total Other Product-3	No of units	N/A N/A	N/A N/A
v)	Product (Please add extra rows in case of additional products)	No of units	N/A	N/A
	Total Equivalent Product	No of Equated Units	N/A	N/A
) [Energy Consumption Details			NIA
17		Million kwh	N/A N/A	N/A N/A
\ T	etal Electricity Exported	Million kwh Million kwh	N/A	N/A
) T	otal Electrical Energy Consumption	Million kwh	N/A	N/A N/A
1	otal Solid Fuel Consumption	Million kCal	N/A N/A	N/A
0 1	otal Gaseous Fuel Consumption	Million kCal Million kCal	N/A	N/A
ii) T		Million kCal	N/A	N/A
	re/ Er. R	lavi Vern	na	D.S.M.
	CE/EA & Enforcement EA- 7	969 Sy Auditor		S.P.C.L. Patial:



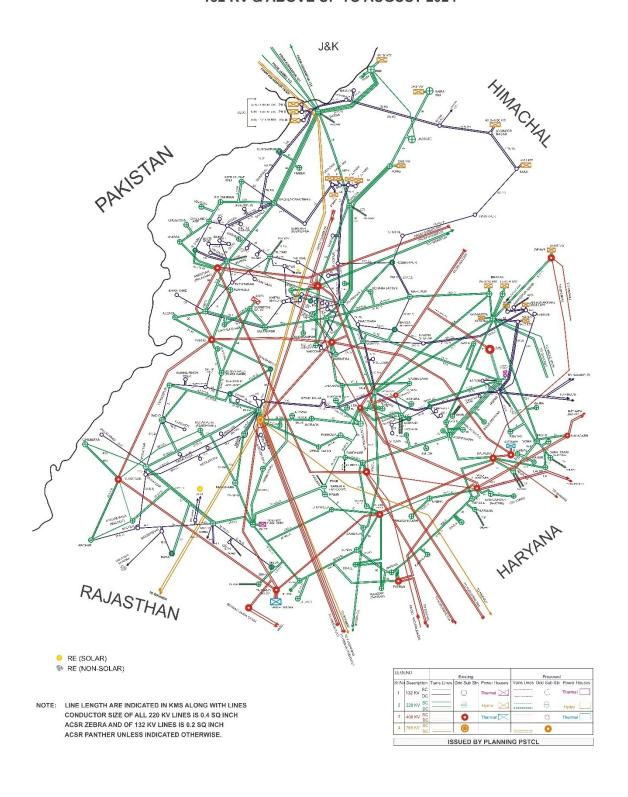
Total Energy Consumption (Thermal + Electrical) Tot N/A N/A Total Normaterial Energy Consumption (Thermal + Electrical) Tot N/A N/A Total Normaterial Energy Consumption (Normalized) Report Eq. (Unit N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Specific Energy Consumption (Normalized) Report Eq. (Unit N/A					N/A
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Security Consumption Details Specific Energy Consumption (Normalization) Regine Eq. Unit N/A N/A N/A	(x)	Total Energy Consumption (Thermal + Electrical)		N/A	100
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District part N/A	11)	Specific Energy	enimated Consumer		
Comment Comm	5.6	Commercial Bulloning	osignato.	1110	N/A
10 10 10 10 10 10 10 10	(a)	Building Aire	m2		
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100 100	-	No. Arconditioned area	m2		N/A
Severe area N/A N/	-	Cores Floor area	m2		N/A
Service area N/A N		Public area			N/A
Consense Parking Auen Details Energy Consumption N/A		Copuse area			N/A
Benegy Consumption Gentle Source Kwh N/A		- Darking Area	m2		
Testal Exerciscy Purchased Nation Notes Section Notes No				N/A	. N/A
Steel Exercisty Consumption North Ni/A		Trans Electricity Purchased Will Charother Source			
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Total Sold Fuel Consumption Million KGal NI/A	-	Trans Clastocal Energy Consumption	Million kCal		
Visited Logid Fuel Consumption Million KGal M	(IV)	Tarrical devel Consumption		, N/A	
Initial Tensil Energy Consumption Million KCal NI/A		Tatal Liquid Fuel Consumption	Million kCal		
Colar Technic Normalized Energy Consumption (Thermal + Electrical) TOE N/A N/A N/A		Tatal Casacus Fuel Consumption	Million kCal		
(c) Specific Energy Consumption (Without Normalization) (d) Specific Energy Consumption (Without Normalization) (e) Specific Energy Consumption (Normalization) (f) Specific Energy Consumption (Normalization) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector - Wise as as well	(vii)	Total Thermal Energy Consumption (Thermal + Electrical)		N/A	N/A
(i) Specific Energy Consumption (Without Normalization) (ii) Specific Energy Consumption (Normalization) N/A N/A N/A N/A N/A N/A N/A N/A		Total Normalized Energy Consumption Details	1102		
(ii) Specific Energy Consumption (Normalized) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Section - C (Sector-wise as well as sub-sector wise pro-forma details) Name of the Sector Refinery/Smelt solution Cold Rolling Sheet or Cement Sb Sc Section (iv) Aluminium Cold Rolling Sheet Section (iv) Cament Color-Alkali Fertilizer Sc Sc Section		Specific Energy Consumption (Without Normalization)		N/A	N/A
Section - C (Sector-wise as well as sub-sector wise pro-forma details) Sub-Sector Refinery/Smelt Sa1	_		TOE/1000	N/A	N/A
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Subsect Footname Subsect Footname Subsect Su		Section - C (Sector-wise as well as sub-sector wise pro-forma	a details)	Des forme la chi	ich the details to
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Pulp and Paper Composite Sg, Fiber Sg, Spanning Sg, Processing Sg, Thermal Power Plant (Coal/Oil/Gas) Thermal Power Plant (Coal/Oil/Gas) Sh (Coal/Oil/Gas) Fiber Sg, Sg, Spanning Sg, Thermal Power Plant (Coal/Oil/Gas) Sh (Coal/Oil/Gas) Sh (Coal/Oil/Gas) Fetroleum Refinery Discoms Si Zonal Railways And Railways Production Sk, Hotels Si Processing Si Well Commercial Building Si Polycohemical Sm We undertake that the information supplied in the Form I and pro-forma is accurate to the best of my knowledge and the data surnished in Form I has been adhered to the data given in the concerned pro forma. Signature: Fr. Ravi Ver Name of Energy Manager: Registration Railways Registration Railways Registration Railways Registration Railways Signature: Fr. Ravi Ver Name of Energy Manager: Registration Railways Registration Registration	•)	indivanta dice.			
Textile Fiber Sg.	vi)	Pulp and Paper			
Textile Spinning Sg3 Processing Sg4	-				
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Refinery Refinery Discoms Signature: Fr. Ravi Ver Name of Energy And its Ray P.S.P.C.L. Paking.					
Discoms Signature: Fr. Ravi Ver Signat				Si	
Zonal Railways Zonal Railways Zonal Railways Zonal Railways Railways Zonal Railways Production Sk2 Production Sk2 Plotels Si Petrochemical Si Petrochemicals Amount of Energy Manager Registration Railways Registration Railways Sk4 Production Sk2 Production S	ix)	Petroleum Refinery		Si	
Registration Rankers Auditor	x)	Electricity Distribution Companies	•		
Commercial Building Petrochemical Sm	xi)	Railways	Production	Sk ₂	
Petrochemicals Petrochemicals			Hotels Pelrochemical		
Authorised Signatory and Seal Dy. D.E. D.S.At. Signature: Fr. Ravi Ver. Name of Eggry Manager: Registration Annual Co. 9 P.S.P.C.L. Patient Francey Auditor					
Authorised Signatory and Seal Dy. D.E. D.S.At. Signature: Fr. Ravi Ver. Name of Eggry Manager: Registration Annual Co. 9 P.S.P.C.L. Patient Francey Auditor	xiii)	Petrochemicals			
Energy Audito	xiii) /we ur urnish	Petrochemicals Indertake that the information supplied in the Form 1 and pro-fit and pro-fit and pro-fit defined that the information supplied in the Form 1 and pro-fit and		best of my knowle	
Energy Audito		Dy	E.YD.S.M.	Name of Energy M.	Ravi Verma
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PSPCL, Patials of the Designed Constitution o	Name of	(the P.P.C.L., Patiala	Sar andillo		



1.30 PSPCL Transmission map 132KV & Above



PUNJAB STATE TRANSMISSION CORPORATION LIMITED TRANSMISSION MAP OF PUNJAB 132 KV & ABOVE UP TO AUGUST 2024





1.31 North Zone PSPCL Power Network

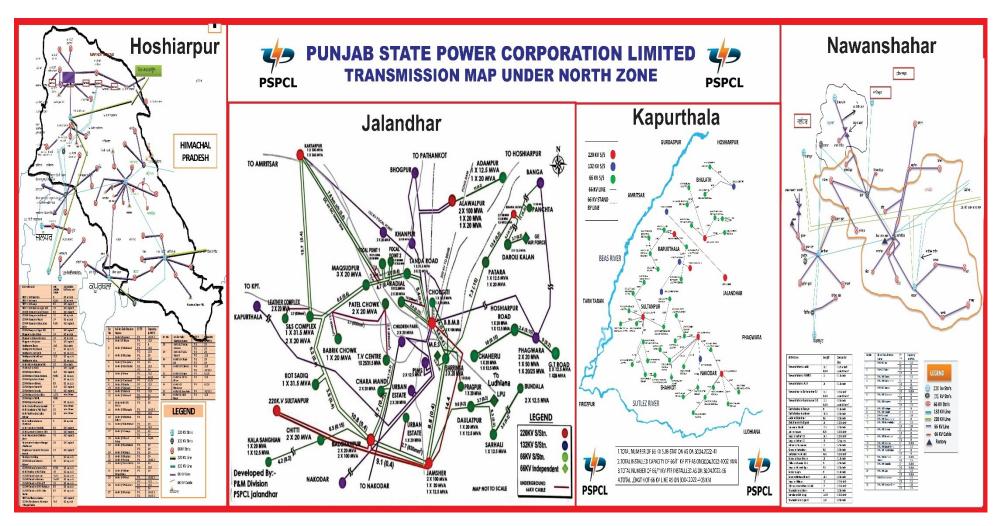


Figure 4:North Zone PSPCL Power Network



1.32 South Zone PSPCL Power Network

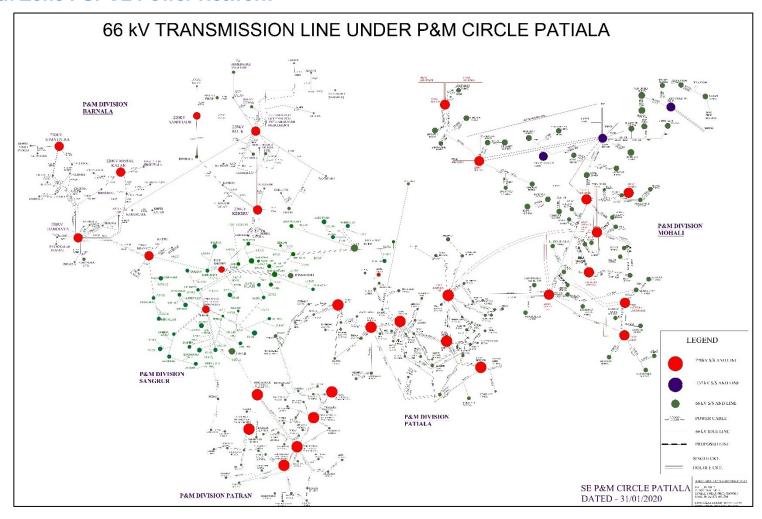


Figure 5:South Zone PSPCL Power Network



1.33 Border Zone PSPCL Power Network

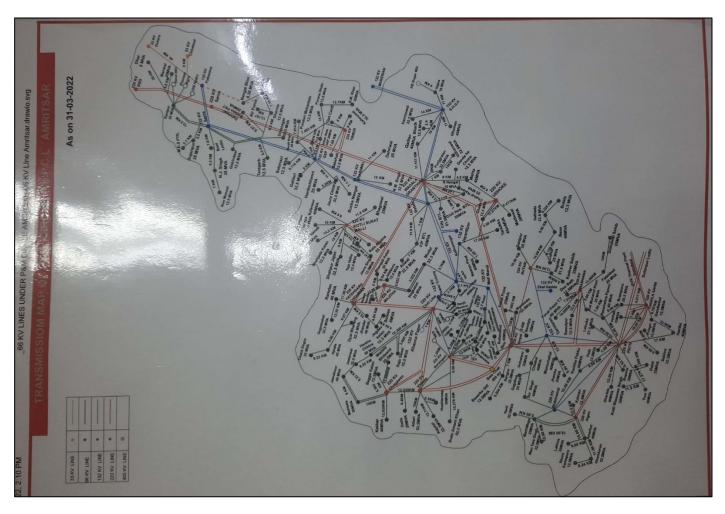


Figure 6:Border Zone PSPCL Power Network



PSPCL Punjab State Power Corporation Ltd.

Audik under PAT Cycle VII A



(PSPCL-DIS0014PB) PSPCL, THE MALL, PATIALA-147001 PUNJAB **Prepared By**

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