



COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)
MINISTRY OF COMMERCE & INDUSTRY
GOVERNMENT OF INDIA,
KAKKANAD, COCHIN – 682 037.
Phone: 2413111, 2413234, Fax: 2413074
E-Mail: mail@csezauthority.in
Website: http://www.csezauthority.in

No.H-2/1/2020:CSEZA / 2689

Dated: 17.10.2023

To

The Director,
Bureau of Energy Efficiency,
Ministry of Power, Government of India
4th Floor, Sewa Bhawan
R. K. Puram, New Delhi - 110066

Sub: Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in Electricity Distribution Companies) Regulations, 2021- Submission of Periodic Energy Accounting Report of CSEZ Authority (CSEZA) for the quarter ending on 30th September, 2023 -Reg.

Please find enclosed herewith the Periodic Energy Accounting of CSEZ Authority (CSEZA) for the quarter ending 30th September, 2023 (Soft copy in Excel format has been sent by email). The above report has been duly verified and endorsed by Authorized Signatory of CSEZ Authority (CSEZA). It would like to highlight that, CSEZ Authority is a deemed power distribution licensee, by virtue of Sec.14(b) of Electricity Act,2003, catering to the industrial units spread over a small area of 103 acres. As such, it has only One Zone, One Circle and One Division and doesn't have any Sub-division.

Yours faithfully,

(Pramodu S)

Secretary-in-Charge, CSEZ Authority



Encl: As above.

Copy to:

Energy Management Center,
Sreekrishna Nagar, Sreekaryam
P O, Thiruvananthapuram - 695 017.

General Information

| | | | | |
|-----|---|---|------------------|---------------------------|
| 1 | Name of the DISCOM | Cochin Special Economic Zone Authority (CSEZA) | | |
| 2 | i) Year of Establishment | 2009 | | |
| | ii) Government/Public/Private | Government | | |
| 3 | DISCOM's Contact details & Address | | | |
| i | City/Town/Village | Kakkanad | | |
| ii | District | Ernakulam | | |
| iii | State | Kerala | Pin | 682037 |
| iv | Telephone | 0484-2413111 | Fax | 0484-2413074 |
| 4 | Registered Office | | | |
| i | Company's Chief Executive Name | P HEMALATHA | | |
| ii | Designation | Development Comissioner & Chairman CSEZ Authority | | |
| iii | Address | Cochin Special Economic Zone Authority (CSEZA), Ministry of | | |
| iv | City/Town/Village | Kakkanad | P.O. | CSEZ |
| v | District | Ernakulam | | |
| vi | State | Kerala | Pin | 682037 |
| vii | Telephone | 0484 2413222 | Fax | 0484-2413074 |
| 5 | Nodal Officer Details* | | | |
| i | Nodal Officer Name (Designated at DISCOM's) | PRAMODU S | | |
| ii | Designation | Secretary-in-Charge | | |
| iii | Address | Cochin Special Economic Zone Authority (CSEZA), Ministry of | | |
| iv | City/Town/Village | Kakkanad | P.O. | CSEZ |
| v | District | Ernakulam | | |
| vi | State | Kerala | Pin | 682037 |
| vii | Telephone | 0484 2413222 | Fax | 0484-2413074 |
| 6 | Energy Manager Details* | | | |
| i | Name | RATHEESH KUMAR A | | |
| ii | Designation | Energy Manager | Whether EA or EM | EM |
| iii | EA/EM Registration No. | EM 5037 | | |
| iv | Telephone | Fax | | |
| v | Mobile | 9744962260 | E-mail ID | ratheeshkumar.a@gmail.com |
| 7 | Period of Information | | | |
| | Year of (FY) information including Date and Month (Start & End) | 1st July, 2023__ - 30th September, 2023__ | | |

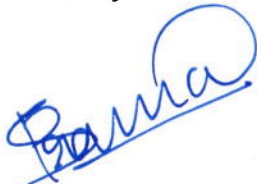


Performance Summary of Electricity Distribution Companies

| | | | |
|------------|--|---|---------|
| 1 | Period of Information Year of (FY) information including Date and Month (Start & End) | 1st July, 2023__ - 30th September, 2023__ | |
| 2 | Technical Details | | |
| (a) | Energy Input Details | | |
| (i) | Input Energy Purchase (From Generation Source) | Million kwh | 14.85 |
| (ii) | Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded) | Million kwh | 14.85 |
| (iii) | Total Energy billed (is the Net energy billed, adjusted for energy traded)) | Million kwh | 14.60 |
| (b) | Transmission and Distribution (T&D) loss Details | Million kwh | 0.25 |
| | | % | 1.65% |
| | Collection Efficiency | % | 100.00% |
| (c) | Aggregate Technical & Commercial Loss | % | 1.65% |

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

Authorised Signatory and Seal


PRAMODU S
 Secretary In-Charge
 CSEZ Authority

Name of Authorised Signatory

Name of the DISCOM:

Full Address:-




Seal

Signature:-

Name of AEA*:

Registration Number:


Rathesh Kumar A
 Em- 5037

Form-Details of Input Infrastructure

| 1 | Parameters | Total | Covered during In audit | Verified by Auditor in Sample Check | Remarks (Source of data) |
|-------|--|--|-------------------------|---|---|
| i | Number of circles | 1 | 1 | 1 | |
| ii | Number of divisions | 1 | 1 | 1 | |
| iii | Number of sub-divisions | 0 | 0 | 0 | |
| iv | Number of feeders | 11 | 11 | | Out of the existing 12 no |
| v | Number of DTs | 16 | 16 | | 3 Nos DTs were added c |
| vi | Number of consumers | 166 | 166 | | From field inspection |
| 2 | Parameters | 66kV and above | 33kV | 11/22kV | LT |
| a. i. | Number of conventional metered consumers | | 0 | 0 | 7 |
| ii | Number of consumers with 'smart' meters | | 0 | 0 | 0 |
| iii | Number of consumers with 'smart prepaid' meters | | 0 | 0 | 0 |
| iv | Number of consumers with 'AMR' meters | | 0 | 0 | 0 |
| v | Number of consumers with 'non-smart prepaid' meters | | 0 | 26 | 133 |
| vi | Number of unmetered consumers | | 0 | 0 | 0 |
| vii | Number of total consumers | | 0 | 26 | 140 |
| b. i. | Number of conventionally metered Distribution Transformers | | 0 | 1 | |
| ii | Number of DTs with communicable meters | | 0 | 0 | 0 |
| iii | Number of unmetered DTs | | 0 | 15 | Out of total 16 DTs, only 1 No DT (station auxiliary transformer) is metered, thus there are 15 Nos unmetered DTs. |
| iv | Number of total Transformers | | 0 | 16 | |
| c. i. | Number of metered feeders | | 0 | 11 | 0 |
| ii | Number of feeders with communicable meters | | 0 | 0 | 0 |
| iii | Number of unmetered feeders | | 0 | 0 | 0 |
| iv | Number of total feeders | | 0 | 11 | 0 |
| d. | Line length (ct km) | 23.592(12.884 ckt km at 11 kV voltage level & 10.708 ckt km at LT voltage level) | | | |
| e. | Length of Aerial Bunched Cables | 0 | | | |
| f. | Length of Underground Cables | 23.592 ckt km | | | |
| 3 | Voltage level | Particulars | MU | Reference | Remarks (Source of data) |
| | | Long-Term Conventional | 15 | Includes input energy for franchisees | Power input from KSEBL |
| | | Medium Conventional | 0 | | |
| | | Short Term Conventional | 0 | | |
| | | Banking | 0 | | |
| | | Long-Term Renewable energy | 0 | | |
| | | Medium and Short-Term RE | 0 | Includes power from bilateral/ PX/ DEEP | |



| | | | | | |
|------|----------------|--|---------|--|--------------------------|
| i | 66kV and above | Captive, open access input | 0 | Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee. | |
| | | Sale of surplus power | 0.00% | | |
| | | Quantum of inter-state transmission loss | 0 | As confirmed by SLDC, RLDC etc | |
| | | Power procured from inter-state sources | 15 | Based on data from Form 5 | |
| | | Power at state transmission boundary | 15 | | |
| ii | 33kV | Long-Term Conventional | 0 | | |
| | | Medium Conventional | 0 | | |
| | | Short Term Conventional | 0 | | |
| | | Banking | 0 | | |
| | | Long-Term Renewable energy | 0 | | |
| | | Medium and Short-Term RE | 0 | | |
| | | Captive, open access input | 0 | | |
| | | Sale of surplus power | 0.00% | | |
| | | Quantum of intra-state transmission loss | 0 | | |
| | | Power procured from intra-state sources | 0 | | |
| iii | | Input in DISCOM wires network | 15 | | |
| iv | 33 kV | Renewable Energy Procurement | 0 | | |
| | | Small capacity conventional/ biomass/ hydro plants Procurement | 0 | | |
| | | Captive, open access input | 0 | | |
| v | 11 kV | Renewable Energy Procurement | 0 | | |
| | | Small capacity conventional/ biomass/ hydro plants Procurement | 0 | | |
| | | Sales Migration Input | 0 | | |
| vi | LT | Renewable Energy Procurement | 0.33429 | | |
| | | Sales Migration Input | | | |
| vii | | Energy Embedded within DISCOM wires network | 0.33429 | | |
| viii | | Total Energy Available/ Input | 15 | | |
| 4 | Voltage level | Energy Sales Particulars | MU | Reference | |
| i | LT Level | DISCOM' consumers | 3 | Include sales to consumers in franchisee areas, unmetered consumers | |
| | | Demand from open access, captive | 0 | Non DISCOM's sales | |
| | | Embedded generation used at LT level | | Demand from embedded generation at LT level | |
| | | Sale at LT level | 3 | | |
| | | Quantum of LT level losses | -2 | | Quantum of losses is sh |
| | | Energy Input at LT level | 0 | | LT input is 0.33429 MU |
| ii | 11 kV Level | DISCOM' consumers | 12.09 | Include sales to consumers in franchisee areas, unmetered consumers | |
| | | Demand from open access, captive | 0 | Non DISCOM's sales | |
| | | Embedded generation at 11 kV level used | | Demand from embedded generation at 11kV level | |
| | | Sales at 11 kV level | 12 | | |
| | | Quantum of Losses at 11 kV | -12 | | Quantum of losses is sh |
| | | Energy input at 11 kV level | 0 | | There is no separate inp |
| | | DISCOM' consumers | 0 | Include sales to consumers in franchisee areas, unmetered consumers | |
| | | Demand from open access, captive | 0 | Non DISCOM's sales | |



| | | | | |
|-----|-------------|---|-----------|---|
| iii | 33 kV Level | Embedded generation at 33 kV or below level | | This is DISCOM and OA demand met via energy generated at same voltage level |
| | | Sales at 33 kV level | 0 | |
| | | Quantum of Losses at 33 kV | 0 | |
| | | Energy input at 33kV Level | | |
| iv | > 33 kV | DISCOM' consumers | | Include sales to consumers in franchisee areas, unmetered consumers |
| | | Demand from open access, captive | | Non DISCOM's sales |
| | | Cross border sale of energy | | |
| | | Sale to other DISCOMs | | |
| | | Banking | | |
| | | Energy input at > 33kV Level | 15 | Input at 110 KV is from I |
| | | Sales at 66kV and above (EHV) | 0 | |
| | | Total Energy Requirement | 15 | |
| | | Total Energy Sales | 15 | |

Energy Accounting Summary

| 5 | DISCOM | Input (in MU) | Sale (in MU) | Loss (in MU) | Loss % |
|-----|----------------------|------------------|-----------------|-----------------|--------|
| i | LT | | 2.52 | | |
| ii | 11 Kv | | 12.09 | | |
| iii | 33 kv | | | | |
| iv | > 33 kv | 14.85 | | 0.245681 | 1.65 |
| 6 | Open Access, Captive | Input (in MU) | Sale (in MU) | Loss (in MU) | |
| i | LT | | | | |
| ii | 11 Kv | | | | |
| iii | 33 kv | | | | |
| iv | > 33 kv | | | | |



Loss Estimation for DISCOM

| | |
|--------------|-------------|
| T&D loss | 0 |
| D loss | 0 |
| T&D loss (%) | 0.016543963 |
| D loss (%) | 0.016543963 |

Details of Division Wise Losses (See note below)**

| Division Wise Losses | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|-------------|------------------|-------------------|--------------------------------|-----------------------------|-----------------------------|----------------------------|------------------------------|---------------------------------|----------------------------|----------------------|--------------------|----------------|-----------------------------|--------------|---------------|----------------------|----------------------------|-------------------------------|-----------------|-----------------------|-------------------------|
| Period From 1/7/2023 to 30/9/2023 | | | | | | | | | | | | | | | | | | | | | | | |
| S.No | Name of circle | Circle code | Name of Division | Consumer profile | | | | | | | | Energy parameters | | | | Losses | | Commercial Parameter | | | AT & C loss (%) | | |
| | | | | Consumer category | No of connection metered (Nos) | No of connection Un-metered | Total Number of connections | % of number of connections | Connecte d Load metered (MW) | Connecte d Load Un-metered (MW) | Total Connecte d Load (MW) | % of connecte d load | Billed energy (MU) | | | | T&D loss (MU) | T&D loss (%) | Billed Amount in Rs. Crore | Collected Amount in Rs. Crore | | Collection Efficiency | |
| | | | | | | | | | | | | | Input energy (MU) | Metered energy | Unmetered/assessment energy | Total energy | | | | | | | % of energy consumption |
| 1 | | | | Residential | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0% | 14.85019 | 0 | 0 | 0 | 0% | 0.245681 | 2% | 0 | 0 | 0.00% | |
| | | | | Agricultural | 1 | 0 | 1 | 1% | 0.33 | 0 | 0.33 | 2% | | 0.344117 | 0 | 0.344117 | 2% | | | 0.1651 | 0.1651 | 100.00% | |
| | | | | Commercial | 114 | 0 | 114 | 69% | 6.059 | 0 | 6.059 | 31% | | 2.375694 | 0 | 2.375694 | 16% | | | 2.0751 | 2.0751 | 100.00% | |
| | | | | Commercial | 25 | 0 | 25 | 15% | 12.801 | 0 | 12.801 | 66% | | 11.74385 | 0 | 11.74385 | 80% | | | 9.0354 | 9.0354 | 100.00% | |
| | | | | Others | 26 | 0 | 26 | 16% | 0.303 | 0 | 0.303 | 2% | | 0.140851 | 0 | 0.140851 | 1% | | | 0.147044 | 0.147044 | 100.00% | |
| Sub-total | | | | | 166 | 0 | 166 | 100% | 19.493 | 0 | 19.493 | 100% | 14.85019 | 14.60451 | 0 | 14.60451 | 100% | 0.245681 | 2% | 11.42259 | 11.42259 | 100.00% | 2% |
| 76 | Total | | | Residential | 0 | 0 | 0 | 0% | 0 | 0 | 0 | 0% | 14.85019 | 0 | 0 | 0 | 0% | 0.245681 | 2% | 0 | 0 | 0.00% | |
| | | | | Agricultural | 1 | 0 | 1 | 1% | 0.33 | 0 | 0.33 | 2% | | 0.344117 | 0 | 0.344117 | 2% | | | 0.1651 | 0.1651 | 100.00% | |
| | | | | Commercial | 114 | 0 | 114 | 69% | 6.059 | 0 | 6.059 | 31% | | 2.375694 | 0 | 2.375694 | 16% | | | 2.0751 | 2.0751 | 100.00% | |
| | | | | Commercial | 25 | 0 | 25 | 15% | 12.801 | 0 | 12.801 | 66% | | 11.74385 | 0 | 11.74385 | 80% | | | 9.0354 | 9.0354 | 100.00% | |
| | | | | Others | 26 | 0 | 26 | 16% | 0.303 | 0 | 0.303 | 2% | | 0.140851 | 0 | 0.140851 | 1% | | | 0.147044 | 0.147044 | 100.00% | |
| 77 | At company level | | | | 166 | 0 | 166 | 100% | 19.493 | 0 | 19.493 | 100% | 14.85019 | 14.60451 | 0 | 14.60451 | 100% | 0.245681 | 2% | 11.42259 | 11.42259 | 100.00% | 2% |

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

| Color code | Parameter |
|------------|---------------------------------|
| | Please enter name of circle |
| | Please enter circle code |
| 0 | Please enter numeric value or 0 |
| | Formula protected |

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

Authorised Signatory and Seal

Name of Authorised Signatory:

Name of the DISCOM:

Full Address:-

Seal

PRAMODU S
Secretary In-Charge
CSEZ Authority



Signature:-
Name of Energy Manager:
Registration Number:

(Handwritten Signature)
Rathesh Kumar A
EM: 5037

Form-Input energy(Details of Input energy & Infrastructure)

A. Summary of energy input & Infrastructure

| S.No | Parameters | Period From 1.7.2023 To 30.9.2023 | Remarks (Source of data) |
|------|---|--|--|
| A.1 | Input Energy purchased (MU) | 14.85019 | KSEBL=14.5159 +solar= 0.33429 |
| A.2 | Transmission loss (%) | 0% | |
| A.3 | Transmission loss (MU) | 0 | |
| A.4 | Energy sold outside the periphery(MU) | 14.60451 | |
| A.5 | Open access sale (MU) | 0 | |
| A.6 | EHT sale | 0 | |
| A.7 | Net input energy (received at DISCOM periphery or at distribution point)-(MU) | 0.00 | |
| A.8 | Is 100% metering available at 66/33 kV (Select yes or no from list) | No | |
| A.9 | Is 100% metering available at 11 kV (Select yes or no from list) | | |
| A.10 | % of metering available at DT | 6% | Out of total 16 Nos, DTs only one no DT is |
| A.11 | % of metering available at consumer end | 100% | |
| A.12 | No of feeders at 66kV voltage level | Nil | |
| A.13 | No of feeders at 33kV voltage level | Nil | |
| A.14 | No of feeders at 11kV voltage level | 11 | Out of existing 12 Nos 11 Kv feeders, the |
| A.15 | No of LT feeders level | NA | |
| A.16 | Line length (ckt. km) at 66kV voltage level | 0 | |
| A.17 | Line length (ckt. km) at 33kV voltage level | 0 | |
| A.18 | Line length (ckt. km) at 11kV voltage level | 12.884 | |
| A.19 | Line length (km) at LT level | 10.708 | |
| A.20 | Length of Aerial Bunched Cables | 0 | |
| A.21 | Length of Underground Cables | 23.592 | |
| A.22 | HT/LT ratio | 1.2 | |

B. Meter reading of Input energy at injection points

| S.No | Zone | Circle | Voltage Level (KVA) | Division (KVA) | Sub-Division (KVA) | Feeder ID | Feeder Name | Feeder Metering Status (Metered/unmetered/AMI/AMR) | Status of Meter (Functional/Non-functional) | Metering Date (Date of last actual meter reading/communication) | Feeder Type (Agri/Industrial/Mixed) | Status of Communication | | | Period from...to... | | | | Sales | Remarks (Source of data) | |
|------|-------|--------|---------------------|----------------|--------------------|-----------|-------------------------|--|---|---|-------------------------------------|---|--|-------------------------------------|---------------------|------------------------------------|-------------------------------|-------------|-------|--------------------------|--|
| | | | | | | | | | | | | % data received through automatically if feeder AMR/AMI | Number of hours when meter was unable to communicate in period | Total Number of hours in the period | Meter S.No | CT/PT ratio | Import (MU) | Export (MU) | | | |
| B.1 | CSEZA | CSEZA | 110 kV | 110 kV | | | eder ID. Feeders are id | 110kV Incomer | Metered | Functional | 30.09.2023 | Mixed | NA | NA | NA | KS894627 | CT - 90A/1A , PT - 110kV/110V | 14.516 | Nil | | |
| B.2 | CSEZA | CSEZA | 415 V | 415 V | | | eder ID. Feeders are id | Solar LT - 1B | Metered | Functional | 30.09.2023 | Mixed | NA | NA | NA | 19009091 | CT-300/5. | 0.102 | Nil | | |
| B.3 | CSEZA | CSEZA | 415 V | 415 V | | | eder ID. Feeders are id | Solar LT - 2A | Metered | Functional | 30.09.2023 | Mixed | NA | NA | NA | HA-040700033-03 HA-040700202-03 | CT-250/5 CT- 200/5 | 0.137 | Nil | | |
| B.4 | CSEZA | CSEZA | 415 V | 415 V | | | eder ID. Feeders are id | Solar LT - 2B | Metered | Functional | 30.09.2023 | Mixed | NA | NA | NA | MX101200657-03 | CT-350/5 | 0.050 | Nil | | |



| | | | | | | | | | | | | | | | | | | | |
|---------|---|-------|-------|-------|---------------------------|---------------|---------|------------|------------|-------|----|----|----|-----------------|-----------|-------|------|--------|-------------|
| B.5 | CSEZA | CSEZA | 415 V | 415 V | Feeder ID. Feeders are id | Solar LT - 38 | Metered | Functional | 30.09.2023 | Mixed | NA | NA | NA | HA-051001234-03 | CT-300/5. | 0.046 | Nil | | |
| B.6 | | | | | | | | | | | | | | | | | | 14.605 | Total Sales |
| B.7 | | | | | | | | | | | | | | | | | | | |
| B.13401 | Total (MU) | | | | | | | | | | | | | | | 14.85 | 0.00 | | |
| B.13402 | Net input energy at DISCOM periphery (MU) | | | | | | | | | | | | | | | 14.85 | | | |

| Color code | Parameter |
|------------|--|
| | Please enter voltage level or leave blank |
| | Please enter feeder id and name or leave blank |
| | Enter meter no or leave blank |
| | Enter CT/PT ratio or leave blank |
| 0 | Please enter numeric value or 0 |
| | Please select yes or no from list |
| | Formula protected |

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Authorised Signatory and Seal

Pramodu S
PRAMODU S
 Secretary In-Charge
 CSEZ Authority



Name of Authorised Signatory
 Name of the DISCOM:
 Full Address:-

Seal

Signature:-

Name of Energy Manager*:

Registration Number:

Rathesh Kumar A
Rathesh Kumar A
 Em 5037

Details of Input Energy Sources

Period From 1/7/2023 To 30/9/2023

A. Generation at Transmission Periphery (Details)

| S.No. | Name of Generation Station | Generation Capacity (In MW) | Type of Station Generation (Based- Solid (Coal, Lignite/Liquid/Gas/Renewable (biomass-bagasse)/Others) | Type of Contract (in years/months/days) | Type of Grid (Intra state/Inter-state) | Point of Connection (POC) Loss MU | Voltage Level (At input) | Remarks (Source of data) |
|-------|----------------------------|-----------------------------|--|---|--|-----------------------------------|--------------------------|--|
| | | | | | | | | 14.5159 MU power input from KSEBL at 110 KV. CSEZA is receiving 110 KV power supply From State Electricity Utility(KSEBL) for distribution within DISCOM area and do not have any Power Generation at the Transmission periphery. |



B. Embedded Generation in DISCOM Area

| S.No | Name of Generation Station | Generation Capacity (In MW) | Type of Station (Generation Based- Solid/Liquid/Gas/Renewable/Others) | Type of Contract | Type of Grid | Voltage Level (KVA) | Circle Load (MW) | Received at Circle (KVA) | Received at Circle (In MU) | Division Level Load (MW) | Received at Division Level (KVA) | Received at Division Level (In MU) | Sub-Division Level Load (MW) | Received at Sub-Division Level (KVA) | Received at Sub-Division Level (In MU) | Remarks (Source of data) | |
|------|--|-----------------------------|---|------------------|--------------|---------------------|------------------|--------------------------|----------------------------|--------------------------|----------------------------------|------------------------------------|------------------------------|--------------------------------------|--|---|--|
| 1 | ON Grid Tied Roof Top Solar Plant at SDF-43 | 0.168 | Renewable Solar Grid | Self generate sc | | 415 V | | | 0.046 | | | 0.046 | | | | CSEZA's Solar generation plants were installed by CSEZA on Capex Model and hence no Contract is | |
| 2 | ON Grid Tied Roof Top Solar Plant at SDF-16 | 0.204 | Renewable Solar Grid | Self generate sc | | 415 V | | | 0.050 | | | 0.050 | | | | 0.050094 | |
| 3 | ON Grid Tied Roof Top Solar Plant at SDF-17 -1 | 0.144 | Renewable Solar Grid | Self generate sc | | 415 V | | | 0.029 | | | 0.029 | | | | 0.029126 | |
| 4 | ON Grid Tied Roof Top Solar Plant at SDF-17 -2 | 0.120 | Renewable Solar Grid | Self generate sc | | 415 V | | | 0.029 | | | 0.029 | | | | 0.029447 | |
| 5 | ON Grid Tied Solar Plant at Ground mounted | 0.363 | Renewable Solar Grid | Self generate sc | | 415 V | | | 0.102 | | | 0.102 | | | | 0.101856 | |

| | | | | | | | | | | | | | | | | |
|---|--|-------|----------------------|------------------|-------|--|--|--|-------|--|--|-------|--|--|---------|--|
| 6 | ON Grid Tied Roof Top Solar Plant at Ware House SDF-17 | 0.290 | Renewable Solar Grid | Self generate sc | 415 V | | | | 0.078 | | | 0.078 | | | 0.078 | |
| | Total | | | | | | | | 0.334 | | | 0.334 | | | 0.33429 | |



(Details of Feeder-wise losses)

Period From 1/7/2023 To 30/9/2023

| Sl No. | Zone | Received at Circle (In MU) | Received at Division (In MU) | Received at Sub-division (In MU) | Name of the Station | Feeder Code/ID | Feeder Name | Type of Feeder (Urban/Mixed/Industrial/Agricultural/Rural) | Type of feeder meter (AMR/AMR/Other) | Received at Feeder (Final in MU) | Feeder Consumption (In MU) | Final Net Export at Feeder Level (In MU) | T&D losses | AT&C losses | % Data Received through Automatically (If feeder AMR/AMI) | Remarks |
|--------|-------|----------------------------|------------------------------|----------------------------------|---------------------|----------------|----------------------------|--|--------------------------------------|----------------------------------|----------------------------|--|------------|-------------|---|-------------------------------|
| 1 | CSEZA | 13.3219 | 13.3219 | 13.3219 | CSEZA 110KV 55 | | 110 kV Incomer | Urban-Mixed | AMR | 14.516 | 14.507 | 0.000 | 0.001 | 0.009 | | There are no Feeder IDs /Code |
| | | | | | | | 11 KV Out going | | | | | | | | | |
| | | | | | | | Ring 1A | Urban-Mixed | Others | 0.422 | 0.412 | 0.000 | 0.024 | 0.006 | | |
| 2 | CSEZA | 0.383 | 0.383 | 0.382572219 | Within CSEZA Zone | | Ring 1B + Solar Gen 0.0977 | Urban-Mixed | Others | 0.832 | 0.813243 | 0.000 | 0.023 | 0.009 | | |
| 3 | CSEZA | 0.827 | 0.827 | 0.826655918 | Within CSEZA Zone | | Ring 2A + Solar Gen 0.1399 | Urban-Mixed | Others | 1.636 | 1.60001 | 0.000 | 0.022 | 0.009 | | |
| 4 | CSEZA | 1.444 | 1.444 | 1.444031598 | Within CSEZA Zone | | Ring 2B + Solar Gen 0.0377 | Urban-Mixed | Others | 1.752 | 1.716396 | 0.000 | 0.021 | 0.008 | | |
| 5 | CSEZA | 1.742 | 1.742 | 1.741776434 | Within CSEZA Zone | | Ring 3A | Urban-Mixed | Others | 1.525 | 1.499329 | 0.000 | 0.023 | 0.007 | | |
| 6 | CSEZA | 1.395 | 1.395 | 1.394704287 | Within CSEZA Zone | | Ring 3B + Solar Gen 0.039 | Urban-Mixed | Others | 2.080 | 2.028553 | 0.000 | 0.025 | 0.008 | | |
| 7 | CSEZA | 2.019 | 2.019 | 2.01917064 | Within CSEZA Zone | | WFB Baird & Company | Urban Industrial | Others | 0.703 | 0.685 | 0.000 | 0.027 | 0.010 | | |
| 8 | CSEZA | 0.868 | 0.868 | 0.867915 | Within CSEZA Zone | | Muthoot Technologies | Urban Industrial | Others | 2.139 | 2.127 | 0.000 | 0.006 | 0.005 | | |
| 9 | CSEZA | 1.474 | 1.474 | 1.473744434 | Within CSEZA Zone | | SFO technologies | Urban Industrial | Others | 2.156 | 2.143 | 0.000 | 0.006 | 0.008 | | |
| 10 | CSEZA | 2.238 | 2.238 | 2.238269016 | Within CSEZA Zone | | Carborandum Universal L | Urban Industrial | Others | 1.588 | 1.576 | 0.000 | 0.007 | 0.004 | | |
| 11 | CSEZA | 1.380 | 1.380 | 1.380369201 | Within CSEZA Zone | | Auxiliary Transformer | Urban Industrial | Others | 0.005037 | 0.003537 | 0.000 | 0.298 | 0.000 | | |
| 12 | CSEZA | 0.005547 | 0.005547 | 0.005547 | Within CSEZA Zone | | | | | | | | | | | |



Details of DT-wise losses (please add more rows as per requirement)

| Zone Name | Circle name | Division name | Name of the Sub-division | Name of the Sub-station | Substation Code | Name of the 11 kV Feeder | Feeder Code | Name of the Location where DT situated | DT code | DT Capacity (kVA) | Predominant consumer type of DT (Domestic/Industrial/Agriculture/Mixed) | Type of metering AMR/AMI/Conventional metered/Unmetered | Status of Meter whether Functional (Yes/No) | % of data received automatically (If AMR/AMI) | No. of Connected Consumers | Input Energy (MU) (A) | Billed Energy (MU) (B) | Loss (MU) (A-B) | % DT Loss (A-B)/A | Remarks |
|-----------|-------------|---------------|--------------------------|-------------------------|---------------------|--|-------------|--|---------|-------------------|---|---|---|---|----------------------------|-----------------------|------------------------|-----------------|-------------------|--|
| CSEZA | | | | | | Ring 1 A | | DT in Ring 1 A(Solar) | | 800 | Mixed | unmetered | NA | NA | 2 | | 0.006707 | | | |
| CSEZA | | | | | | Ring-1 B | | DT in Ring 1 B | | 500 | Mixed | Unmetered | NA | NA | 10 | | 0.089288 | | | 1. There are no Feeder ID/Codes. Feeders are identified by Feeder name only. Similarly there are no IDs /Codes for DTs and DTs are identified by Names only. 2. Out of the total 16 Nos DTs, since there no meters available for 15 nos DTs, % Loss of DTs can not be provided for these DTs. CSEZA is planning to provide metering for DTs as per BEE regulations and once installed the details can be provided. 3. Since there are no meters for DTs (except for Station auxilry DT) No data arer received automatically. Also for Station Auxiliary Transformer , available meter is not AMI/AMR type and hence no data are received automatically. 4. Though 17 Nos DTs are listed in this sheet, actually only 16 Nos Dts are owned by CSEZA, One no DT in Muthoot Technopolis building is owned and maintained by developer M/s Muthoot Technopolis and hence not counted in Total number of DTs. 5. Total number of connected consumers shown in this sheet is 140 nos LT consumers which are fed from the 11 kV/415 Volt DTs., the grand total of consumers is 166 Nos out of which there are 26 Nos HT consumers. |
| CSEZA | | | | | | Ring-2 A | | DT No1 in SDF 17 | | 1250 | Mixed | Unmetered | NA | NA | 17 | | 0.234438 | | | |
| CSEZA | | | | | | Ring-2 A | | DT No2 in SDF 17 | | 1250 | Mixed | Unmetered | NA | NA | 16 | | 0.538431 | | | |
| CSEZA | | | | | | Ring-2 A | | DT in Ware house SDF 17 | | 500 | Mixed | Unmetered | NA | NA | 9 | | 0.128670 | | | |
| CSEZA | | | | | | Ring-2 B | | DT No1 in SDF 16 | | 400 | Mixed | Unmetered | NA | NA | 11 | | 0.146470 | | | |
| CSEZA | | | | | | Ring-2 B | | DT No2 in SDF 16 | | 400 | Mixed | Unmetered | NA | NA | 14 | | 0.187130 | | | |
| CSEZA | | | | | | Ring-2 B | | DT in Ring 2 B | | 500 | Mixed | Unmetered | NA | NA | 17 | | 0.265045 | | | |
| CSEZA | | | | | | Ring-3 A | | DT in Plot No 30 | | 630 | Mixed | Unmetered | NA | NA | 4 | | 0.026612 | | | |
| CSEZA | | | | | | Ring-3 A | | DT in Ring 3 A | | 500 | Mixed | Unmetered | NA | NA | 9 | | 0.197448 | | | |
| CSEZA | | | | | | Ring-3 B | | DT in SDF 43 | | 1250 | Mixed | Unmetered | NA | NA | 21 | | 0.367756 | | | |
| CSEZA | | | | | | Ring-3 B | | DT in WTP | | 500 | Mixed | Unmetered | NA | NA | 4 | | 0.109009 | | | |
| CSEZA | | | | | | Substation Auxilury Transformer feeder | | DT for Substation Auxiliary | | 400 | Industrial | Other | Functional | NA | 1 | 0.005066 | 0.003577 | 0.001529 | 30.1816 | |
| CSEZA | | | | | | Ring-1 B | | DT in SDF-3 Trans-1 | | 1250 | Mixed | Unmetered | NA | NA | 3 | | 0.0032610 | | | |
| CSEZA | | | | | | Ring-1 B | | DT in SDF-3 Trans-2 | | 1250 | Mixed | Unmetered | NA | NA | 0 | | 0.00 | | | |
| CSEZA | | | | | | Ring-1 B | | DT in SDF-3 Trans-2 | | 250 | Mixed | Unmetered | NA | NA | 0 | | 0.00 | | | |
| | | | | | Muthoot Technopolis | | | DT in Muthoot Technopolis building | | 1500 | Mixed | Unmetered | NA | NA | 2 | | 0.212703 | | | |



| S.N. | Division Name | Consumer Category (Separate for each subsidized consumer category) | Billed Energy | | | Subsidized Billed Energy | | | Applicable rate of Subsidy as notified by State Govt. | | Subsidy Due from State Govt. | | | Subsidy Actually Billed/claimed from State Govt. (As against col.12) | Subsidy Received from State Govt. (As against col.13) | Balance Subsidy yet to be Received from State Govt. | | | |
|-------------------------|---------------|--|-----------------|-------------|-----------------|--------------------------|----------------------------|-------------|---|---------------------|------------------------------|-------------------|-------------|--|---|---|--------------|--------------|--------------|
| | | | Metered | Un-metered* | Total | Metered (out of col.2) | Un-metered* (Out of col.3) | Total | Metered Energy** | Un-metered Energy** | Metered Energy | Un-metered Energy | Total | | | | | | |
| | | | (In kwh) | | | (In kwh) | | | (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 | 8 | 9 | 10=5x8 | 11=6x9 | | | | 12=10+11 | 13 | 14 |
| 1 | | Residential | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | Agriculture | 344117 | 0 | 344117 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | Commercial/Industrial-LT | 2375694 | 0 | 2375694 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | Commercial/Industrial-HT | 11743847 | 0 | 11743847 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | Other (Specify) WW | 140851 | 0 | 140851 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |
| | | Total | 14604509 | 0.00 | 14604509 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| 2 | | Residential | | | | | | | | | | | | | | | | | |
| | | Agriculture | | | | | | | | | | | | | | | | | |
| | | Commercial/Industrial-LT | | | | | | | | | | | | | | | | | |
| | | Commercial/Industrial-HT | | | | | | | | | | | | | | | | | |
| | | Other (Specify) WW | | | | | | | | | | | | | | | | | |
| 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 | 0.00 | 0.00 | | | | |
| 3 | | Residential | | | | | | | | | | | | | | | | | |
| | | Agriculture | | | | | | | | | | | | | | | | | |
| | | Commercial/Industrial-LT | | | | | | | | | | | | | | | | | |
| | | Commercial/Industrial-HT | | | | | | | | | | | | | | | | | |
| | | Other (Specify) WW | | | | | | | | | | | | | | | | | |
| 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 | 0.00 | 0.00 | | | | |
| Total for DISCOM | | | 14604509 | 0.00 | 14604509 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | |

