WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
(A Govt. of W.B. Enterprise)
Office of the Chief Engineer
Central Commercial Department
E Mail ID : commercial.chief@WBSEDCL.IN

Fax : 033-2359 8398
Telephone: 033-2359 1927
033- 23197-310 / 8900793195 (Mob.)
Kolkata-700091

Vidyut Bhavan (4th. Floor)
DJ - Block, Sector-II
Salt Lake,

Tender Notice No. :
Memo No. : CE(COM.) /BEE/PAT/ CYCLE / E-tender/ 443 Date: 31.05.2023

Sub: Notice inviting quotation for conducting Annual Energy Audit and submission of Energy Audit Report in BEE's prescribed format for the FY: 2022-2023 (Period from : April'22-March'23) of WBSEDCL-DISCOM , Designated Consumer (DC) under PAT –II Cycle

The Chief Engineer (Commercial) of WBSEDCL being a Designated Consumer (DC) under Pat Cycle – II, invites quotation in sealed cover/s from empanelled with BEE for conducting Annual Energy Audit for the FY: 2022-2023 (list enclosed as Appendix I of RfP document) of WBSEDCL under PAT –II Cycle and submission of the said annual energy audited report to the Bureau of Energy Efficiency (BEE) as per Request for Proposal Document (RfP) to carry out Energy Audit in WBSEDCL by the selected agency/ Accredited Energy Auditor (AEA) Firm (as per relevant provisions of Energy Conservation Act, 2001 and Energy Conservation Rules,2008) and in accordance with second schedule of the guidelines mandated in MoP GOI's Gazette notification dt. 07.10.2021 .

In this regard, proposals are sought from leading firms/organizations having relevant sectoral experience & requisite infrastructure to undertake such assessment with conformity of BEE approved AEA's list for the year 2022-23(enclosed as Appendix-I in the RfP document).

- **Scope of the work**: Mentioned in the RfP document
- **Terms of payment** : Mentioned in the RfP document
- No Earnest money is required to be deposited for bidding on the afore-mentioned energy audit job.
- The Request for Proposal (RfP) Document is attached herewith . **The RfP shall have to be strictly adhered for bidding on the said energy audit job .**

Last date for submission of the bid :- Till 16.06.2023 up to 4.30 P.M.

- **Date & Time for opening of bid** :- On 19.06.2023 at 12.30 P.M.
- Participants/Bidder are requested to submit self attested copies of GST registration and PAN card along with sealed quotation and that should reach in the following address on or before schedule date and time .
- WBSEDCL reserves the right to reject the EOI proposals without assigning any reason thereof .
- The Bid should be submitted in the following address:

The Chief Engineer (Commercial) , Central Commercial Deptt.,
WBSEDCL
Vidyut Bhavan , 4th floor , Block- A
Salt lake City, Bidhannagar, Kolkata-700091. (W.B.).

For any sort of assistance related to above job, bidder/AEA Firm may contact :
Sri. Bibhas Ch. Tripathi, Addl. CE, Central Commercial Deptt., WBSEDCL
Contact no. 8900793197 / 9903644312 .
Official E Mail ID: commercial.chief@wbsedcl.in

Yours faithfully ,

31/5/23

(A.C.Bir)
Chief Engineer (Commercial)
WBSEDCL

Enclo: RfP document

Request for Proposal Document

To carry out the Energy Audit in West Bengal State Electricity Distribution Company Limited (WBSEDCL)

Last date of Submission: 16.06.2023

West Bengal State Electricity Distribution Company Limited

Contents

1. Letter of Invitation

1.1 Advertisement

WBSEDCL intends to carry out the Energy Audit in WBSEDCL. In this regard, Proposals are sought from leading firms/organizations having relevant sectoral experience & requisite infrastructure to undertake such assessment with conformity of BEE approved AEA's list for the year 2022-23(enclosed as Appendix-I). The details of the assignment, broad objectives, and Letter proforma have been described in this document. Bids must be delivered in the office of the undersigned in a written form to the address given below within 10 days from the date of publication on DISCOM's website. Further information can be obtained at the address given below during 10.00 AM to 5.30 PM.

The proposals may be addressed to WBSEDCL. The complete proposal should reach on or before 4:30 PM on 15.06.2023. For further details please contact the undersigned.

Sd/-
Name : Anil Ch. Bir ,
CE (Commercial), WBSEDCL
Tel :(+91)-8900793195,
Email: commercial.chief@wbsedcl.in

1.2 Critical Information

Availability of RFP	
Last date for receipt of Queries	15.06.2023
Pre-bid meeting	NA
Last date for receipt of Proposal	16.06.2023
Date and Time of opening of Bids	19.06.2023
Venue for opening of Bids	4th floor, 'C' Block Vidyut Bhawan, DJ Block Salt lake,Kolkata 700091
Contact Person for written queries	Addl Chief Engineer (Commercial), WBSEDCL Mob No: 8900793197/9903644312 Email:commercial.chief@wbsedcl.in
Submission of Proposal to be addressed to	Chief Engineer (Commercial), WBSEDCL4th floor, 'A' Block Vidyut Bhawan, DJ Block Salt lake,Kolkata 700091

2. Background Information

2.1 About WBSEDCL

West Bengal state Electricity Distribution Company Limited (WBSEDCL) is a Company engaged in Electricity Distribution in the state of West Bengal and is fully owned by Govt. Of West Bengal

2.2 About Energy Accounting in DISCOMs

Energy Accounting means accounting of all energy inflows at various voltage levels in the distribution periphery of the network, including renewable energy generation and open access consumers, and energy consumption by the end consumers. Energy accounting and a consequent annual energy audit would help to identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action.

Owing to the impact of energy auditing on the entire distribution and retail supply business and absence of an existing framework with dedicated focus on the same, it was imperative to develop a set of comprehensive guidelines that all Distribution utilities across India can follow and adhere to.

Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations for Conduct of Mandatory Annual Energy Audit and Periodic Energy Accounting in DISCOMs. As per the regulation, all Electricity Distribution Companies are mandated to conduct annual energy audit and periodic energy accounting on quarterly basis.

These Regulations for Energy audit in Electricity Distribution Companies provides broad framework for conduct of Annual Energy Audit though and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.

2.3 Objective of Assignment

WBSEDCL intends to engage an agency to carry out the Energy Audit in WBSEDCL. The objective of this assignment is to carry out the Annual Energy Audit as per the prescribed formats of regulation to conduct Energy Audit in DISCOMs issued by Bureau of Energy Efficiency, Ministry of Power Government of India.

3. Scope of Work

1. Energy Audit should be carrying out in line with the Regulation to Conduct Energy Audit in DISCOMs, 2021.
2. Preparation of checklist/action plan for Energy Audit.
3. Proforma of Energy Audit will be shared with selected agency after the issuance of LoA. DISCOM visit should be carried out by all team members of the agency as per the team declaration in technical proposal. Energy Audit regulation, 2021, profomar's (formats) will be used for this audit. The regulations along with proforma's (formats) are enclosed as **Annexure-1.**

1. Collection and Review of the energy related data of last Financial Year (2022-23) in the Proforma by visiting the DISCOM physically.
2. Verification of existing pattern of energy distribution across periphery of electricity distribution company
3. Collection and verification of energy flow data of WBSEDCL at all applicable voltage level of distribution network (as per regulation to conduct Energy Audit in DISCOMs issued by Bureau of Energy Efficiency, Ministry of Power Government of India.)
4. Collection of data on energy received and distributed by WBSEDCL and verify the accuracy of data
5. Collection & analysis the data and prepare the same with report;

I. Input energy details:
   a. Collection of input energy from recorded system meter reading
   b. All the inputs points of transmission system
   c. Details provided by transmission unit

d. Recorded meter reading at all export points (where energy sent outside the State (interstate as well as intrastate)is from the distribution system);
e. System loading and Captures infrastructure details (i.e. no of circle, division, sub-division, feeders, DTs, & Consumers)

II. Parameters for computation of distribution losses:
   a) Details of open access, EHT sale, HT sale, LT sale and transmission losses
   b) Number of consumers category wise in each circle
   c) Consumers connected load category wise in each circle
   d) Details of billed and un-billed energy category wise of each circle
   e) Metered and un-metered details.
   f) Circle wise losses of all circles under DISCOM periphery
   g) Boundary meter details
   h) Energy Cost and Tariff data
   i) Source of energy Supply (e.g. electricity from grid or self-generation), including generation from renewables;
   j) Energy supplied to Open Access Consumers which is directly purchased by Open Access Consumers from any supplier other than electricity distribution company

III. Monitoring and verifications of input energy and consumption pattern at various voltage levels

IV. Identify the areas of energy leakage, wastage or inefficient use;

V. Identify high loss-making areas/networks, for initiating target based corrective action;

VI. Identify overloaded segments of the network for necessary capacity additions.

VII. Computation of agriculture consumption (approved by SERC)

VIII. Methodology for loss computation various losses.

IX. Computation of Average Billing Rate (ABR)
   a) Total revenue billed category wise.
   b) Category wise ABR with tariff subsidy.
   c) Category wise ABR without tariff subsidy.

X. Collection Efficiency (Category wise) and computation of AT&C loss.

6. Observe and compile various Energy Conservation (ENCON) options implemented by the WBSEDCL and prepared report containing details of expenditure made by DC along with saving and payback period.
7. Recommendations to facilitate energy audit, energy accounting and improve energy efficiency
8. Study the details of loss/gain of WBSEDCL, analysis of Average Cost of Supply (ACS) and Average Revenue realized (ARR) gap, details of energy charges/Power purchase cost along with the financial analysis.
9. Current System Metering Status at various voltage level of WBSEDCL
   - Status of Functional meters for all consumers, transformers and feeders.

- Status of default meters (non-functional meters) for all consumers, transformers and feeders

10. Current status of pre-requisites mentioned in regulations (As per West Bengal Electricity Regulatory Commission(WBERC)'s 'Terms and Conditions of Tariff' Regulations 2011 as amended).
11. Copies of relevant authentic and certified documents should support the report. Each document shall be sealed and signed by representative AEA.
12. Prepare final report of WBSEDCL as per the scope of work and as per the regulation of Energy Audit, 2021, in a standard format duly indexed, covering profile of the unit and its details of energy related data w.r.t DISCOMs Sector, analytical & Statistical details and any other relevant information.

4. Timelines and Key deliverables

The time for delivery and acceptance of final deliverable for this assignment shall be 2 months from the date of award of work. However, the timelines may be extended depending on the requirement of WBSEDCL with mutual consent.

Deliverables under the assignment will include following:

- The Annual energy audit report for FY: 2022-'23 (for the period from April'22-March'23) should be completed within 45 (forty five) days of issuance of the order to be placed for the said job .
- The energy audit report shall have to be furnished in 4 copies hard copy by hand and soft copy through e-my mail covering all the scope of work .

5. Selection Process

5.1 Pre-Qualification Criteria

The Firm/Agency interested is being considered for this task preferably shall fulfil the following criteria:

- Should be a firm/company registered/incorporated in India. The organization registered under Companies Act or Societies Registration Act shall be eligible to apply. Subcontracting after award of RFP is not allowed.
- Consortium is permitted. The consultancy firm / agency may involve one more agency only as partner for meeting work, experience, and MoU for such must be submitted. The consortium partner should not have been blacklisted by any Central / State Government or Public-Sector Undertakings.
- The organization (in case of consortium, the lead-member of the consortium) must be registered/incorporated in India, with at least 10 years of experience in the field of consultancy services/research area.
- Should not be involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract.

- Should not be blacklisted by any Central / State Government / Public Sector Undertaking in India.
- The Consultant shall have following as minimum team strength of 5 personnel:

S. No.	Designation	Qualification	No.	Minimum years of experience
1	Team Leader	Accredited Energy Auditor with Graduate in Engineering	1	10 years working experience in power distribution sector
2	Team Member	Certified Energy Auditor	1	Must have 4 year experience working on projects/assignments with DISCOMs
3	Team Member	Electrical Engineer/Diploma Engineer	2	Must have 2 year experience working on projects/assignments with DISCOMs
4	Sector Expert	Retired DISCOM official not less than rank of Supt. Engineer having more than 15 years' experience.		

Table number 1

- The team should be led by BEE Accredited energy Auditor (AEA).
- Team Leader/authorized member should be reporting to WBSEDCL as communicated by (Agency Name).
- **Minimum qualification criteria (Indicative):**

Parameter	Criteria	Minimum Qualification Criteria

(A)	**Experience of Agency:** May be formulated by DISCOM as per the requirement of this assignment	
(B)	**Experience of proposed team:** 1. Qualification, experience & competence of team leader (AEA) 2. Qualification, experience & competence of the Sector Expert 3. Qualification, experience & competence of the proposed team	As indicated into the above table number 1
(C)	Annual turnover of the Firm and Approach & detailed work methodology as per scope of work given under section 3 of this RfP	--

Note:

- If consultancy firm /agencies do not meet any of the above listed criteria, their proposals will not be considered for further evaluation.
- Consultancy firm /Agencies meeting above listed criteria are required to submit evidence (i.e., details / documents of audited financial statements of last 3 years) in support – otherwise proposal may be disqualified.

5.2 Preliminary Scrutiny

Preliminary scrutiny of the proposal will be made to determine whether they are complete, whether required process fee has been furnished, whether the documents have been properly signed, and whether the bids are in order, and whether the bidder meets all the pre-qualification criteria. Proposals not conforming to these requirements will be rejected.

5.3 Evaluation of Proposals

The number of points to be given under each of the evaluation criteria is:

- The Bidder should take enough care to submit all the information sought by the Authority in the desired formats. The Proposals are liable to be rejected if information is not provided in the desired formats. The Technical Proposals will be evaluated out of 100 marks.

- The Technical Proposals, which are found acceptable in accordance with point (i) above, shall be deemed as responsive proposals. The Bidders with such responsive proposals and securing score of minimum 70 marks (Can be reduced upto 60 marks) would be considered as Technically Qualified Bidders and would be eligible for next stage of the Bidding Process i.e. Financial Evaluation.

- In the case of key personnel their CVs should be submitted duly signed by the respective personnel and countersigned by the Authorized Signatory of the firm. Their experience need not necessarily be with the firm where they are currently employed.
- In the case of firms, their experience will be considered only in those cases where they have been awarded contracts, either on individual basis or as a JV. The experience of firms where they have only been associated as Sub-Firm/agencies for any assignment will not be considered for evaluation.
- The firms should substantiate their claims of experience by providing copies of the relevant contracts along with the names, designations, email addresses and contact numbers of their Clients.

WBSEDCL will evaluate proposals and will give marks to all the successful bidders from preliminary scrutiny on the following basis:

S. No	Criteria	Marks Allotted
A	**Experience of proposed team**	**Max 35**
B	**Experience of Agency of Similar Assignments** Copy of work order and project completion certificate must be enclosed with the technical proposal	**Max 45**
C	**Methodology/plan of action**	**Max 20**
C1	Understanding of the assignment and action plan	10
C2	Turnover	10
	Total Marks (A+B+C)	**100**

5.4 Mode of Selection

Least Cost Selection (LCS) method will be followed for this tender.

6. Instructions to Bidders

6.1 Procedure for Submission of Proposal

The Bidder must comply with the following instructions during preparation of Proposals:

1. The Bidder is expected to carefully examine all the instructions, guidelines, terms and condition and formats of the Request for Proposal. Failure to furnish all the necessary information as required by the Request for Proposal or submission of a proposal not substantially responsive to all the requirements of the Request for Proposal shall be at Bidder's own risk and will be liable for rejection.
2. The Proposal and all associated correspondence shall be written in English and shall conform to prescribed formats. Any interlineations, erasures or overwriting shall be valid only if they are initiated by the authorized person signing the Proposal.
3. The proposal shall be in indelible ink and shall be signed by the Bidder or duly authorized person(s). The letter of authorization shall be indicated by written power of attorney and shall accompany the proposal.
4. In addition to the identification, the envelopes containing the Proposals shall mention the name and address of the Bidder to enable the proposal to be returned in case it is declared late pursuant and for mailing purposes.
5. Proposals received by facsimile shall be treated as defective, invalid and rejected.
6. Only detailed proposals complete in all respect and in the forms indicated shall be treated as valid.
7. No Bidder can modify, substitute, or withdraw the Proposal after its submission.
8. The Organization should submit their Proposal with Cover Letter in two separate envelopes marked as ENVELOPE-A and ENVELOPE-B.
9. COVER LETTER: - The cover letter must clearly mention the name, address, telephone and fax no., and email id of the authorized person who will serve as the primary point of contact for all communication. The person who is signing the cover letter and the proposal should have authorization.
10. ENVELOPE- A: - One Hard Copy of Technical Proposal, in original with signature of authorized personnel and stamp/seal of the organization. The sealed envelope should be super scribed with the wordings Technical Proposal for "Carrying out the Annual Energy Audit in WBSEDCL."
11. ENVELOPE- B: - One Hard Copy of Financial Proposal, in original with signature of authorized personnel and stamp/seal of the organization. The sealed envelope should be super scribed with the wordings Financial Proposal for Proposal for "Carrying out the Annual Energy Audit in WBSEDCL."

    Each document in the two envelopes of Proposal should be a complete document and should be bound as a volume separately. Each of the document should be page numbered and appropriately flagged and contain the list of contents with page numbers.

Different copies must be bound separately. The deficiency in documentation may result in the rejection of the Proposal. This envelope shall be sent to:

The Chief Engineer (COM) ,
Central Commercial Deptt.,
WBSEDCL
Vidyut Bhavan ,
4th floor , Block-A
Salt lake City, Bidhannagar, Kolkata-700091. (W.B.).

12. The Technical and Financial Proposals must be delivered at the submission address on or before the time and date stated above. Any Proposal received after the closing time for submission of proposals shall be returned unopened. WBSEDCL does not take any responsibility for the delay and any explanation for the same.
13. The sealed cover should also clearly indicate the name, address, and telephone number of agencies to enable the proposal to be returned unopened in case it is declared "Late".
14. The soft copy of the Technical Proposal should be emailed to **commercial.chief@wbsedcl.in**
15. The proposal should contain all the documentary evidences to substantiate the claim for pre-qualification criteria set in para 5.1 above i.e. Names, CVs and duration of association of personnel who will be engaged in the said work/activities (duly signed CVs must have name and nationality of staff, profession/designation of staff, proposed position in the team, whether employee of the firm or Firm/Agency, the number of years with the firm, key qualifications, academic background, experience and languages known).
16. Each team member who is not a full-time employee of the firm is required to give an undertaking that he/she is available to undertake the tasks allocated to him/her in the technical proposal. Each CV should be a maximum of 3 pages and signed (by the key personnel) confirming that the information given in the CV is correct.
17. Moreover, Firm/Agency/agency is supposed to present a 5 page write up on the methodology it intends to follow to undertake Proposal for “carrying out the Energy Audit in WBSEDCL” along with timelines for project completion which must not exceed 45 days from date of awarding of contract.
18. ENVELOPE-B i.e., Financial Proposal will be opened only for bidders who have been found qualified in meeting the evaluation criterion set in para 5.3 above with all required information furnished in ENVELOPE-A.
19. Both the Technical Bid cover (Envelope-A) and Price Bid cover (Envelope-B) shall then be put in a single outer cover and sealed appropriately. The outer cover shall be super scribed as Proposal for "Carrying out the Energy Audit in West Bengal Electricity Distribution Company limited(WBSEDCL)" .The “FROM” address and “TO” address shall be written legibly failing which, the Technical Bid is liable for rejection.

6.2 Cost of RfP.

The Firm/Agency shall bear all costs associated with the preparation and submission of its RfP, including cost of presentation for the purposes of clarification of the bid, if so desired by the purchaser. WBSEDCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

6.3 Validity of Bids

The Bids submitted shall remain valid till placement of formal order to the selected bidder/ AEA. The Successful Bidders should extend the price validity till the completion of the order or as requested by WBSEDCL.

6.4 Modification and Withdrawal of Bids

The Bids once submitted may not be allowed to be modified or amended or withdrawn at any cost.

6.5 Acceptance and Withdrawal of Bids

The right of final acceptance of the bids is entirely vested with the WBSEDCL who reserves the right to accept or reject, any or all the tenders in full or in parts without assigning any reason whatsoever. There is no obligation on the part of Tender Inviting Authority to communicate with rejected Bidders. After acceptance of the Bid by WBSEDCL, the bidder should have no right to withdraw his tender or claim higher price. WBSEDCL may also reject any bid for reasons such as change in scope of work, new technologies, and lack of anticipated financial resources, court orders, accidents or calamities and other unforeseen circumstances.

6.6 Contents of the RfP

The Firm/Agency is expected to examine all instructions, forms, terms &conditions, and Statement of Work in the RfP documents. Failure to furnish all information required or submission of an RfP Document not substantially responsive to the RfP in every respect will be at the Firm/Agency's risk and may result in the rejection of the RfP.

The proposals would be scrutinized based on the criterion set in para 5.1 above.

The specific experience of the Agency/Firm would be checked based on the following information provided in ENVELOPE-A along with the prescribed documents:

1. Evidence of satisfying all the minimum eligibility criterion listed out in Para 5.2.
2. Evidence of having successfully carried out similar assignments.
3. Evidence of having successfully carried out assignments with Government.
4. Sufficient size, organization, and management to carry out the entire project.
5. Specialized skills and creativity related to the assignment.

However, WBSEDCL in its sole/absolute discretion can apply whatever criteria deemed appropriate in determining the responsiveness of the Proposal submitted by the respondents.

6.7 Language of Bids

The Bids prepared by the Firm/Agency and all correspondence and documents relating to the bids exchanged by the Firm/Agency and WBSEDCL, shall be written in the English language, provided that any printed literature furnished by the Firm/Agency may be written in another language so long the same is accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

6.8 Pre-Bid Meeting

1. Pre-Bid Meeting will not be convened
2. All enquiries from the Bidders relating to this RFP notice document must be submitted to WBSEDCL before the deadline mentioned in this document.

   These queries should also be emailed at **commercial.chief@wbsedcl.in**.

6.9 Opening of Bid

The Bidder or his authorized representative may be present at the time of opening of bid on the specified date. In case of unscheduled holiday on the closing/opening day of bid, the next working day will be treated as scheduled prescribed day of closing/opening of bid; the time notified remaining the same.

6.10 Conflict of Interest

The Firm/Agency who is selected for the work will have to maintain the confidentiality of the information compiled. In no case the Firm/Agency would be allowed to use the data or share the information with anyone else, except for the WBSEDCL. WBSEDCL shall hold the copyrights over any of the data collected or compiled during the awards.

6.11 Confidentiality

WBSEDCL require that recipients of this document to maintain its contents in the same confidence as their own confidential information.

6.12 Authorized Signatory (Consultant)

The "Consultant" as used in the RfP shall mean the one who has signed the RfP document forms. The Consultant should be the duly Authorized Representative of the Firm/Agency, for which a certificate of authority will be submitted. All certificates and documents (including any clarifications sought and any subsequent correspondences) received hereby, shall, as far as possible, be furnished and signed by the Authorized Representative.

In case of consortium, letter of association signed by the authorized signatory of the member firms authorizing the lead firm should be attached in original. The power or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the consultant shall be annexed to the bid. WBSEDCL may reject outright any proposal not supported by adequate proof of the signatory's authority.

6.13 Contact Details of Consultant

Consultant who wants to receive WBSEDCL's response to queries should give their contact details to WBSEDCL. The Consultant should send their contact details in writing at the WBSEDCL contact address indicated above.

6.14 Queries on RfP

Agency requiring any clarification on this document may send a query in the e_mail :commercial.chief@wbsedcl.in.WBSEDCL response to all the queries, received not later than the dates prescribed by the WBSEDCL in Para 1 of this document, will be made available on the website e-mail to all Consultants who have given their e-mail details. WBSEDCL may also hold a pre-bid meeting if needed to give clarifications and invitation of the same will be sent to the Consultants who have given their contact details.

6.15 Non-disclosure of Contract Document

Except with the written consent of the WBSEDCL, the firm/agency shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

6.16 Amendment of RfP

At any time prior to the last date for receipt of bids, WBSEDCL, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Firm/Agency, modify the RfP Document by an amendment. In order to provide prospective Firm/Agency reasonable time in which to take the amendment into account in preparing their bids, WBSEDCL may, in its sole discretion, extend the last date for the receipt of Bids and/or make other changes in the requirements set out in the Invitation for RfP. Any amendment/clarification issued on RfP will be in writing and will be published on the WBSEDCL website to make it accessible to all Bidders and shall be deemed to be a part of this document.

6.17 Power of Attorney

Registered Power of Attorney executed by the Firm/Agency in favour of the Principal Officer or the duly Authorized Representative, certifying him/her as an authorized signatory for the purpose of this RfP.

6.18 Letter of Intent and Issuance of Work Order

The Letter of Intent (LoI) of RFP will be issued to the Successful Bidder by WBSEDCL. This would be treated as commencement of the work for the successful bidder.

6.19 Document Comprising the RfP

The proposal prepared by the Firm/Agency shall comprise the following components:

1. Form 1: Letter Pro-forma
2. Form 2: Minimum Eligibility

3. Form 3: Team Composition
4. Form 4: CV of team members.
5. Form 5: List of Projects implemented by the bidder organization.
6. Form 6: Prior Experience
7. Form 8: Approach and Methodology
8. Form 9: Declaration Letter
9. Financial Proposal
10. Any other documents/evidence as deemed appropriate.

6.20 Terms of Payment

- Payment authority will be WBSEDCL.
- Payment will be made after the end of timeline mentioned for submission of Annual Energy Audit Report for FY2022-23
- GST will be paid extra as per the rules of Government of India and should be cleanly spelt in the financial bid.
- No extra amount shall be paid on any ground whatsoever.
- No advance payment will be made for conducting such audit . 100% payment will be released within 45 days from the date of submission of the bills in triplicate along with the copy of final annual energy audit report for the FY: 2022-23 to the CE (Commercial) WBSEDCL.
- The bill /Invoices will be duly certified by the CE(Commercial) , WBSEDCL and forwarded to D.D.O for payment .
- The D.D.O. & the Paying authority / Officer for the subject mentioned work will be the Manager F&A , Establishment -Corporate (E-C), Finance Deptt. , WBSEDCL ,Vidyut Bhavan (6th Floor) , Salt Lake City, Kolkata-700091 (W.B.).
- The bills should be GST compliant, if applicable.

6.21 DISCLAIMER

WBSEDCL and/or its officers, employees disclaim all liability from any loss or damage, whether foreseeable or not, suffered by any person acting on or refraining from acting because of any information including statements, information, forecasts, estimates or projections contained in this document or conduct ancillary to it whether or not the loss or damage arises in connection with any omission, negligence, default, lack of care or misrepresentation on the part of WBSEDCL and/or any of its officers, employees.

7. Forms for the Technical Proposal (Envelop A)

Proposal is to be submitted in the following format along with the necessary documents as listed. The Proposal shall be liable for rejection in the absence of requisite supporting documents. Proposal should provide information against each of the applicable requirements. In absence of the same, the Proposal shall be liable for rejection.

7.1 Form 1: Letter Pro-forma

To,

WBSEDCL

Sub: Proposal for Carrying out the Energy Audit in WBSEDCL

Sir,

The undersigned Agency, having read and examined in detail all the RfP documents in respect of appointment of an Agency for WBSEDCL for the said assignment, do hereby express their interest to provide their Services as specified in the scope of work.

2. Correspondence Details

1	Name of the Agency	
2	Address of the Agency	
3	Name of the contact person to whom all references shall be made regarding this tender	
4	Designation of the person to whom all references shall be made regarding this tender	
5	Address of the person to whom all references shall be made regarding this tender	
6	Telephone (with STD code)	
7	E-Mail of the contact person	
8	Fax No. (with STD code)	

3. Document forming part of Proposal

We have enclosed the following:

- Form 1: Letter Pro-forma
- Form 2: Minimum Eligibility
- Form 3: Team Composition
- Form 4: CV of team members.
- Form 5: List of Projects implemented by the bidder organization.
- Form 6: Prior Experience
- Form 7: Comments and Suggestions
- Form 8: Approach and Methodology

- Form 9: Declaration Letter
- Registered Power of Attorney executed by the Agency in favour of the Principal Officer or the duly Authorized Representative, certifying him/her as an authorized signatory for the purpose of this RFP.

4. We hereby declare that our Proposal is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Thanking you,

Yours faithfully,

(Signature of the Officer)

Name	:
Designation	:
Seal	:
Date	:
Place	:
Business Address	:

Witness:	Agency:
Signature	Signature
Name	Name
Address	Designation
	Company
Date	Date

7.2 Form 2: Minimum Eligibility

[Agency should not include the figures of the subcontractors for Form-2]

1.1	Name of Agency				
1.2	Year of Registration/Incorporation				
1.3	Year of Registration/Incorporation in India*				
1.4	Number of Employees in India as on December 31, 2020				
		FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
1.5	Net Worth (INR Crore) **				
1.6	Annual Turnover (INR Crore) **				
1.7	Annual Profits (INR Crore) **				
1.8	Name of Consortium Partner if any				
1.9	Lead Member of Consortium if any				
1.10	Organisation' experience in the field of consultancy services/policy review/research (in case of consortium, the lead-member of the consortium)				
1.11	Agency's experience in in field of energy efficiency/ energy/ power sector (Last five years)	projects with Central/State Governments and Multilateral Agencies			
1.12	Availability/Expertise of team as per in para 5.1	Yes/No			
1.13	Blacklisting by Central/State Government/PSUs	Yes/No			
1.14	Litigation that may impact on deliverables	Yes/No (If yes, please provide detail thereof)			

* Enclose a copy of Registration document (including registration certificate)

**Enclose a copy of Audited Financial Statement as annexures to form 2 with respect to information furnished in 1.5 to 1.7

***Enclose copy of the self-attested supporting documents as annexures to form 2 with respect to information to information furnished in 1.10 to 1.11.

Witness:	Employee:
Signature	Signature
Name	Name
Address	Designation
	Organization
Date	Date

7.3Form 3: Team Composition

S. No	Nameof Person	Role (Team Leader/ Team Member/ Other)[1]	Year of relevant experience in DISCOM[2]	List of projects (Energy Audit/data Collection, MEA in DISCOMs)[3]	List ofother relevant projects[4]	Signature[5]
				1. 2. 3.	1. 2. 3.	
				1. 2. 3.	1. 2. 3.	

[1]Role of the person in this project, please define only separate roles to individuals, as mentioned in this document.

[2] Year of relevant experience and same should also be depicted in the attached resume of the person.

[3] List of projects related to energy audit/data collection, MEA in DISCOMs, and same should be depicted in the attached CV of the person

[4] Signatureshouldbeoriginalandsignedininkbyallteammembersandalsoattach self-attested copy of PAN card/Passport etc. for verification of signature. Bid will be rejected, if signatures are not valid/not signed in original.

7.4 Form 4: CVs of Proposed Team

[Provide CVs of the proposed team for undertaking the current assignment, especially of the Proposed Head of the Agency. The CVs to be included in the following format:]

NAME:

1. Proposed Position:
2. Name of Firm:
3. Name of Staff:
4. Date of Birth:
5. Nationality:
6. Education:

Name of Degree	Year	Name of Institution

7. Membership of Professional Associations:
8. Other Training:
9. Countries of Work Experience:
10. Languages:

Language	Speak	Read	Write

13. Employment Record:

Firm	From – To Date	Designation / Role

14. Projects under taken

Name	Role & Description	Duration (From-To)	Organization Name	Nature of the project (Energy Audit/Data Collection/ MEA/M&V/Technical evaluation of project)

15. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any willful misstatement described here in may lead to my disqualification or dismissal, if engaged.

Signature

Date

[Signature of staff member or authorized representative of the staff]
Day/Month/Year Full name, Signature and designation of authorized representative.

7.5 Form 5: List of Projects implemented by the bidder Organization

Type of Project	List of Project
Consultancy Projects (including policy and financial related project) in DISCOMs	1 -
	2 -
	3 -
Detailed Energy Audit related project in DISCOM	1 -
	2 -
	3 -
MEA, Data Collection and M&V related projects in DISCOM sector	1 -
	2 -
	3 -
Other similar projects	1 -
	2 -
	3 -

7.6 Form 6: Prior Experience

[Using the format below, provide information on each assignment for which your Organization, and each associate for this assignment, was legally contracted either individually as a corporate entity or as one of the major companies within an association, for carrying out services similar to the ones requested under this assignment. Agency should give information on the similar areas of design as indicated.

A. Prior Experience in projects (preferably similar experience)

Name of project:	
Objectives of the Project:	
Nature of project:	
Description of project:	
Financial Component	
Technical Component	
Country:	
Location within country:	
Duration of the project:	
Name of Employer along with contact details	
Start date (month/year):	
Completion date (month/year):	
Name of associated Consultants, if any:	
No of professional staff-months provided by associated Consultants:	
Name of senior professional staff of your firm involved and functions performed.	
Approx. value of the Assignment/job provided by your firm under the contract (in Rupees):	
Description of actual Assignment/job provided by your staff within the Assignment/job:	

Note:

Enclose copy of the self-attested supporting documents as annexures to form 3 with respect to information furnished above.

Use separate tables for separate experience.

Witness:
Signature
Name
Address

Date

Employee:
Signature
Name
Designation
Organization
Date

7.7 Form 8: Approach and Methodology (Work Plan with Timelines)

[Explain your understanding of the objectives of the assignment/job, approach to the assignment/job, detailed execution plan for the assignment, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output.

7.8 Form 9: Declaration Letter

Declaration Letter on official letter head stating the following:

We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract.

We are not black listed by any Central / State Government / Public Sector Undertaking in India.

Witness:	Agency:
Signature	Signature
Name	Name
Address	Designation
	Organization
Date	Date

8.0 Forms for the Financial Proposal (Envelop B)

8.1 Form 1: Financial Bid Pro-Forma

Date _____

WBSEDCL

Sub: Carrying out the Energy Audit in WBSEDCL.

Sir,

I/We, the undersigned, offer to provide our services for Carrying out the Energy Audit in WBSEDCL, in accordance with your Request for Proposal dated _____. Our attached Financial Proposal is for the sum of <<*Amount in words and figures*>>. This amount is inclusive of the cost of all parameters linked with the project and all the taxes are cleanly spelt.

S.No	Name DISCOM	Total Cost excluding GST as per scope of work (in Rs)	Total Cost excluding GST as per scope of work (in words)
A	1	2	3

Further, I/We understand that the payment would be made based on actual invoice and GST rates prevalent during the time of payment.

Thanking you,

Yours faithfully

(Signature of the Officer)

Name :
Designation :
Seal :
Date :
Place :
Business Address:

Annexure - 1

रजिस्ट्री सं. डी.एल.- 33004/99 REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

सी.जी.-डी.एल.-अ.-08102021-230245
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असाधारण
EXTRAORDINARY

भाग III—खण्ड 4
PART III—Section 4

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ऊर्जा दक्षता ब्यूरो

अधिसूचना

नई दिल्ली, 6 अक्तूबर, 2021

फा. सं. 18/1/बीईई/डिस्कॉम/2021.—प्रारूप विनियम अर्थात् ऊर्जा दक्षता ब्यूरो [विद्युत वितरण कंपनियों में ऊर्जा लेखा परीक्षा (लेखांकन) संचालन हेतु रीति और अंतराल] विनियम, 2021, ऊर्जा संरक्षण अधिनियम, 2001 (2001 का 52) की धारा 58 की उपधारा (1) की अपेक्षानुसार, भारत के राजपत्र, असाधारण, भाग III, खंड 4 में अधिसूचना संख्यांक 18/1/बीईई/डिस्कॉम/2021, तारीख 15 अप्रैल, 2021 द्वारा प्रकाशित किए गए थे जिसमें राजपत्र में अधिसूचना के प्रकाशन की तारीख से 45 दिन की अवधि के भीतर उन सभी व्यक्तियों से आक्षेप और सुझाव आमंत्रित किए गए थे जिनके इससे प्रकाशित होने की संभावना थी;

उक्त प्रारूप विनियमों के संबंध में उपरोक्त विनिर्दिष्ट अवधि के भीतर प्राप्त आक्षेप और सुझावों पर सम्यक् रूप से विचार किया गया है;

अत:, अब, ऊर्जा दक्षता ब्यूरो, केन्द्रीय सरकार के पूर्व अनुमोदन से, ऊर्जा संरक्षण अधिनियम, 2001 (2001 का 52) की धारा 58 की उपधारा (2) के खंड (छ) के साथ पठित धारा 13 की उपधारा (2) के खंड (थ) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, निम्नलिखित विनियम बनाता है।

1. **संक्षिप्त नाम, लागू होना और प्रारंभ-.** (1) इन विनियमों का संक्षिप्त नाम ऊर्जा दक्षता ब्यूरो (विद्युत वितरण कंपनियों में ऊर्जा लेखा परीक्षा संचालन हेतु रीति और अंतराल) विनियम 2021 है ।

(2) ये विनियम अभिहित उपभोक्ता के रूप में अधिसूचित सभी विद्युत वितरण कंपनियों पर लागू होंगे।

(3) ये राजपत्र में उनके प्रकाशन की तारीख को प्रवृत्त होंगे।

2. परिभाषाएँ-. (1) इन विनियमों में, जब तक संदर्भ से अन्यथा अपेक्षित न हो, -

(क) "अधिनियम" से ऊर्जा संरक्षण अधिनियम, 2001 (2001 का 52) अभिप्रेत है;

(ख) "वार्षिक ऊर्जा लेखापरीक्षा" से इन विनियमों के अनुसार ऊर्जा लेखा परीक्षक द्वारा किसी प्रत्यायन प्राप्त वार्षिक आधार संचालित ऊर्जा लेखापरीक्षा अभिप्रेत है;

(ग) "वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट" से वार्षिक ऊर्जा लेखापरीक्षा पर रिपोर्ट अभिप्रेत है;

(घ) "सर्किल" से विद्युत वितरण कंपनी का ऐसा सीमांकित क्षेत्र अभिप्रेत है जिसमें विद्युत वितरण कंपनी को विभाजित किया जाता है।

(ड.) "उपभोक्ता" का वह अर्थ होगा जो विद्युत अधिनियम, 2003 (2003 का 36) की धारा 2 के खंड (15) के अधीन है;

(च) " प्रभाग" से ऐसी प्रशासनिक इकाई अभिप्रेत है जिसमें किसी विद्युत वितरण कंपनी को सुगम संक्रिया के प्रयोजन के लिए विभाजित किया जाता है;

(छ) "विद्युत वितरण कंपनी" से विद्युत अधिनियम, 2003 (2003 का 36) की धारा 2 के खंड (17) में यथा परिभाषित कोई वितरण लाइसेंसधारी अभिप्रेत है;

(ज) "ऊर्जा लेखांकन" से अक्षय ऊर्जा उत्पादन और ओपन एक्सेस उपभोक्ताओं और अंतिम उपभोक्ताओं द्वारा ऊर्जा खपत सहित नेटवर्क के वितरण की परिधि में विभिन्न वोल्टेज स्तरों पर सभी ऊर्जा प्रवाह का लेखांकन करना;

(झ) "आवधिक ऊर्जा लेखांकन" से विनियम 4 में उल्लिखित तिमाही आधार पर संचालित ऊर्जा लेखांकन अभिप्रेत है;

(ञ) "आवधिक ऊर्जा लेखा रिपोर्ट" से आवधिक ऊर्जा लेखांकन पर ऊर्जा प्रबंधक द्वारा प्रस्तुत और हस्ताक्षरित रिपोर्ट अभिप्रेत है;

(2) उन शब्दों और पदों के, जो इसमें प्रयुक्त हैं और परिभाषित नहीं हैं, किन्तु अधिनियम में परिभाषित हैं, वही अर्थ होंगे, जो उस अधिनियम में हैं।

3. वार्षिक ऊर्जा लेखापरीक्षा संचालन हेतु समय अंतराल – (1) प्रत्येक विद्युत वितरण कंपनी प्रत्येक वित्तीय वर्ष के लिए वार्षिक ऊर्जा लेखा परीक्षा संचालित करेगी तथा ब्यूरो और संबंधित राज्य पदाभिहित एजेंसी को वार्षिक ऊर्जा लेखा परीक्षा रिपोर्ट भी प्रस्तुत करेगी और सुसंगत वित्तीय वर्ष की समाप्ति से चार मास की अवधि के भीतर उसे विद्युत वितरण कंपनी की वेबसाइट पर भी उपलभ्य कराई जाएगी :

बशर्ते कि इन विनियमों के प्रारंभ होने पर, प्रत्येक विद्युत वितरण कंपनी की प्रथम वार्षिक ऊर्जा लेखा परीक्षा ऐसे प्रारंभण की तारीख से छह माह के भीतर की जाएगी, जिसमें इन विनियमों के प्रारंभ होने की तारीख से तत्काल पूर्व वित्तीय वर्ष के लिए विद्युत वितरण कंपनी के ऊर्जा लेखांकन को ध्यान में रखा जाएगा।

(2) जहां इन विनियमों के प्रारंभ होने के पश्चात् कोई नई विद्युत वितरण कंपनी की स्थापना की जाती है, वहां ऐसी विद्युत वितरण कंपनी पदाभिहित उपभोक्ता के रूप में अधिसूचित होने की तारीख से पहले वित्तीय वर्ष के पूर्ण होने पर अपनी पहली वार्षिक ऊर्जा लेखा परीक्षा संचालित करेगी।

स्पष्टीकरण - यदि किसी विद्यमान विद्युत वितरण कंपनी के विलय, निर्विलियन, मंदी में विक्रय, अधिग्रहण, नियंत्रण में परिवर्तन या कोई अन्य कॉर्पोरेट पुनर्गठन, या उसमें अन्तवर्लित परिणामस्वरूप किसी इकाई का सृजन किया जाता है तो ऐसी इकाई को इस उप-विनियम के प्रयोजन के लिए नई विद्युत वितरण कंपनी के रूप में नहीं माना जाएगा ।

4. आवधिक ऊर्जा लेखांकन संचालन हेतु समय अंतराल - (1) प्रत्येक विद्युत वितरण कंपनी निम्नलिखित करेगी:-

(क) यह सुनिश्चित करेगी कि वित्तीय वर्ष की प्रत्येक तिमाही के लिए विद्युत वितरण कंपनी के ऊर्जा प्रबंधक द्वारा सभी फीडर वार, सर्किल वार और प्रभाग वार आवधिक ऊर्जा लेखा संचालन किया जाएगा; तथा

(ख) ब्यूरो और सम्बद्ध राज्य अभिहित एजेंसी को आवधिक ऊर्जा लेखा रिपोर्ट प्रस्तुत करेगी तथा आवधिक ऊर्जा लेखांकन की तारीख से पैंतालीस दिनों के भीतर विद्युत वितरण कंपनी की वेबसाइट पर भी उपलभ्य करेगी।

(2) इन विनियमों के प्रारंभ होने के पश्चात्, उप-विनियम (1) में किसी बात के होते हुए भी प्रत्येक विद्युत वितरण कंपनी -

(क) ऐसे प्रारंभ की तारीख से ठीक पूर्व वित्तीय वर्ष की अंतिम तिमाही के लिए अपना पहला आवधिक ऊर्जा लेखांकन संचालित करेगी; तथा

(ख) ऐसे प्रारंभ की तारीख से दो वित्तीय वर्षों की अवधि के लिए वित्तीय वर्ष की प्रत्येक तिमाही के लिए पश्चात्वर्ती आवधिक ऊर्जा लेखांकन संचालित करेगी, और आवधिक ऊर्जा लेखांकन की तारीख से साठ दिनों की अवधि के भीतर आवधिक ऊर्जा लेखा रिपोर्ट प्रस्तुत करेगी।

5. **वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन की पूर्वापेक्षाएँ -** अन्यथा उपबंधित के सिवाय, प्रत्येक विद्युत वितरण कंपनी, सुसंगत वित्तीय वर्ष के प्रारंभ से पूर्व वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन के लिए अपेक्षित सभी कार्रवाई करेगी, जिसमें निम्नलिखित कार्रवाई भी है, अर्थात्:-

(क) सभी विद्युत नेटवर्क आस्तियों की पहचान और मानचित्रण करना;

(ख) उच्च टेंशन और निम्न-टेंशन वाले उपभोक्ताओं की पहचान और मानचित्रण करना;

(ग) सूचना प्रौद्योगिकी समर्थित ऊर्जा लेखांकन और संबद्ध सॉफ्टवेयर सहित लेखा परीक्षण प्रणाली का विकास और कार्यान्वयन करना;

(घ) विद्युत वितरण कंपनी सभी उपभोक्ताओं, वितरण ट्रांसफार्मर और फीडरों के लिए कार्यात्मक मीटरों का संस्थापन सुनिश्चित करेगी;

परंतु पहली अनुसूची में उल्लिखित मार्गदर्शक सिद्धान्तों के अनुसार इन विनियमों के प्रारंभ की तारीख से तीन वित्तीय वर्षों की अवधि के भीतर चरणबद्ध रीति में मीटर की संस्थापन किया जा सकेगा।;

(ङ) सभी वितरण ट्रांसफार्मर (25 के.वी.ए. तक उच्च वोल्टेज वितरण पद्धति से भिन्न और 25 के.वी.ए. से निम्न, अन्य वितरण पद्धति तक) संचारी मीटरों से मीटर किए जाएंगे। और सभी विद्यमान गैर-संचारी वितरण ट्रांसफार्मरों को संचारी मीटर के साथ प्रतिस्थापित किया जाएगा और अद्यतन मीटर अवसंरचना के साथ एकीकृत किया जाएगा।

(च) विद्युत वितरण कंपनी किसी मानवीय हस्तक्षेप के बिना ऊर्जा लेखा रिपोर्ट तैयार करने के लिए एक सूचना प्रौद्योगिकी सक्षम प्रणाली स्थापित करेगी:

परंतु ऐसी प्रणाली,

(i) शहरी और पूर्विकतो वाले क्षेत्र के उपभोक्ताओं की दशा में इन विनियमों के प्रारंभ की तारीख से तीन वर्ष की अवधि के भीतर; और

(ii) ग्रामीण उपभोक्ताओं की दशा में इन विनियमों के प्रारंभ होने की तारीख से पांच वर्ष के भीतर; स्थापित की जा सकेगी;

(छ) विद्युत वितरण कंपनी, एक केंद्रीकृत ऊर्जा लेखा और लेखापरीक्षा प्रकोष्ठ का सृजन जिसमें निम्नलिखित होंगे-

(i) एक नोडल अधिकारी, एक ऊर्जा प्रबंधक और एक सूचना प्रौद्योगिकी प्रबंधक, जिसके पास कम से कम पांच वर्ष का वृत्तिक अनुभव हो; और

(ii) एक वित्तीय प्रबंधक जिसके पास कम से कम पांच वर्ष का वृत्तिक अनुभव हो;

(ज) कोई अन्य अपेक्षा जिसे ब्यूरो, ऊर्जा लेखापरीक्षा और लेखा प्रयोजन हेतु निर्देशित कर सकेगा।

6. **वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन हेतु रिपोर्टिंग संबंधी अपेक्षाएं -** (1) प्रत्येक विद्युत वितरण कंपनी वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन की रिपोर्टिंग के प्रयोजन हेतु एक नोडल अधिकारी पदाभिहित करेगी, जो मुख्य अभियंता या उससे ऊपर के पद पर विद्युत वितरण कंपनी का पूर्णकालिक कर्मचारी होगा और इसकी संसूचना ब्यूरो को दी जाएगी।

(2) प्रत्येक विद्युत वितरण कंपनी यह सुनिश्चित करेगी कि ऊर्जा लेखांकन आंकड़ा एक मीटरिंग प्रणाली से सृजित हो या जब तक ऐसी मीटरिंग प्रणाली का सृजन नहीं हो जाता, तब तक राज्य आयोग द्वारा यथा विहित किसी सहमति से प्राप्त उपधारणा पद्धति द्वारा आंकड़ा लिया जाएगा ।

(3) प्रत्येक विद्युत वितरण कंपनी द्वारा संस्थापित क्लस्टर मीटर पर 25 केवीए तक की उच्च वोल्टेज वितरण प्रणाली पर वितरण ट्रांसफार्मर की मीटरिंग की जा सकती है।

(4) ऊर्जा लेखाकंन और लेखापरीक्षा प्रणाली और सॉफ्टवेयर मासिक, त्रैमासिक और वार्षिक ऊर्जा लेखा रिपोर्टें बनाने के लिए विकसित किया जाएगा।

(5) प्रत्येक विद्युत वितरण कंपनी विनियम 5 के खंड (च) में यथाविनिर्दिष्ट सूचना प्रौद्योगिकी प्रणाली का विवरण उपलभ्य करेगी जो ऊर्जा लेखांकन रिपोर्टें बनाने और किसी भी प्रकार के मैनुअल हस्तक्षेप के संबंध में न्यूनतम मैनुअल हस्तक्षेप सुनिश्चित करती है, जिसमें निर्दिष्ट अवधि, आवधिक ऊर्जा लेखा रिपोर्ट में स्पष्ट रूप से उपदर्शित की जाएगी।

7. वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन की रीति - (1) इन विनियमों के अधीन प्रत्येक वार्षिक ऊर्जा लेखापरीक्षा और आवधिक ऊर्जा लेखांकन निम्नलिखित रीति से संचालित किया जाएगा, अर्थात् -

(क) विद्युत वितरण कंपनी के आस-पास ऊर्जा वितरण के विद्यमान पैटर्न का सत्यापन; और

(ख) वितरण नेटवर्क के सभी लागू वोल्टेज स्तरों पर विद्युत वितरण कंपनी द्वारा प्रस्तुत किए गए लेखा ऊर्जा प्रवाह का सत्यापन, -

(i) वितरण फीडरों के बीच आने वाले ट्रांसमिशन और 66केवी/33 केवी/11केवी ऊर्जा प्रवाह;

(ii) फीडरों के बीच 66केवी/33 केवी जाने वाले और 11केवी/6.6केवी आने वाले ऊर्जा प्रवाह;

(iii) 11केवी / 6.6 केवी फीडरों और वितरण ट्रांसफार्मर या उच्च वोल्टेज वितरण प्रणाली के बीच ऊर्जा प्रवाह;

(iv) वितरण ट्रांसफॉर्मर, या उच्च वोल्टेज वितरण प्रणाली से अंतिम उपभोक्ता जिसके अंतर्गत मुख्य चक्र प्रणाली भी है, के बीच ऊर्जा प्रवाह;

(v) फीडर से अंतिम उपभोक्ता के बीच ऊर्जा प्रवाह, और

(vi) उपभोक्ता को प्रत्यक्ष रूप से 66/33/11केवी के बीच ऊर्जा प्रवाह।

(2) विद्युत वितरण कंपनी के नोडल अधिकारी के परामर्श से प्रत्यायित ऊर्जा लेखा संपरीक्षक निम्नलिखित करेगा, -

(क) इन विनियमों के अधीन अपेक्षित ऊर्जा लेखापरीक्षा संचालित करने के लिए कार्य की परिधि विकसित करेगा;

(ख) नेटवर्क में वितरित ऊर्जा के लेखांकन पर सर्वोत्तम आचार प्रक्रियाओं पर सहमत होगा; तथा

(ग) लेखापरीक्षा की परिधि में प्राप्त हुई ऊर्जा और वितरित ऊर्जा में आने वाली ऊर्जा के आंकड़ों का संग्रह करेगा।

(3) प्रत्यायित ऊर्जा लेखा संपरीक्षक निम्ललिखित करेगा -

(क) संग्रह किए गए आंकड़े की विधिमान्यता के मूल्यांकन के लिए मानक प्रथा के अनुसार विद्युत वितरण कंपनियों के नोडल अधिकारी के परामर्श से, एकत्र किए गए आंकड़े की सत्यता का सत्यापन करेगा;

(ख) निम्नलिखित के संबंध में आंकड़ों का विश्लेषण और प्रसंस्करण करेगा -

(i) एकत्र किए गए आंकड़े की तुलना में आंकड़े की निगरानी की संगतता;

(ii) ऊर्जा लेखांकन सुकर और ऊर्जा दक्षता में सुधार हेतु सिफारिशें करना; और

(iii) विद्युत वितरण कंपनी के लिए हानियों को कम करने में ऊर्जा लेखांकन के प्रयोजन के संबंध में।

8. पूर्विकता और कार्य योजना तैयार करना - (1) नोडल अधिकारी के परामर्श से प्रत्यायित ऊर्जा लेखा संपरीक्षक द्वारा प्रस्तुत वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट तथा विद्युत वितरण कंपनी के ऊर्जा प्रबंधक द्वारा प्रस्तुत आवधिक ऊर्जा लेखांकन रिपोर्ट में निम्नलिखित क्रियाकलाप भी होंगे,

(I) आंकड़ा संग्रहण और ऊर्जा वितरण सत्यापन -

(क) उपभोक्ताओं का मासिक ऊर्जा खपत आंकड़ा और विद्युत वितरण कंपनी से मीटरिंग प्रणाली निम्नलिखित वोल्टेज स्तरों पर :-

(i) 33/66/132 केवी स्तर, जिसके अंतर्गत 33/66/132 केवी फीडर और सबस्टेशन भी हैं;

(ii) 11/22 केवी स्तर, जिसके अंतर्गत 11/22 केवी फीडर और वितरण उप स्टेशन भी है;

(iii) 440 वी, जिसके अंतर्गत वितरण ट्रांसफार्मर और निम्न टेंशन उपभोक्ता भी हैं;

(ख) सभी मीटर्ड इनपुट बिंदुओं के लिए इनपुट ऊर्जा ब्यौरे;

(ग) सीमा मीटर ब्यौरे;

(घ) ऊर्जा आपूर्ति का स्रोत (उदाहरण के लिए ग्रिड से विद्युत या स्व-उत्पादन), जिसमें नवीकरणीय ऊर्जा से उत्पादन भी है;

(ड.) प्रणाली में ऊर्जा हानि की पहचान करने के लिए वर्तमान खपत प्रथाओं की समीक्षा;

(II) आंकड़ा सत्यापन, विधिमान्यकरण और सुधार -

(क) ब्यूरो और सम्बद्ध राज्य अभिहित एजेंसी को रिपोर्ट करने के लिए ऊर्जा संरक्षण और लागत में कमी के संबंध में प्रत्येक उपाय के प्रभाव को वार्षिक आधार पर निर्धारित करने के लिए एक निगरानी और सत्यापन प्रोटोकॉल;

(ख) निम्नलिखित को ध्यान में रखते हुए इनपुट ऊर्जा का सत्यापन और सुधार -

(i) मीटरिंग एजेंसी द्वारा रिकॉर्ड की गई सिस्टम मीटर रीडिंग;

(ii) ट्रांसमिशन सिस्टम के सभी इनपुट बिन्दू;

(iii) ट्रांसमिशन यूनिट द्वारा उपलभ्य किए गए ब्यौरे;

(iv) प्रत्येक विद्युत परीक्षण प्रभाग में हर मास के सुसंगत रिकॉर्ड;

(v) सभी बाहरी बिंदुओं पर दर्ज की गई मीटर रीडिग (जहां राज्य से बाहर भेजी जाने वाली ऊर्जा, वितरण प्रणाली से है); और

(vi) सिस्टम लोडिंग और संबंधित अवसंरचना।

(ग) ओपन एक्सेस उपभोक्ताओं को आपूर्ति की गई ऊर्जा जो विद्युत वितरण कंपनी के अतिरिक्त किसी भी आपूर्तिकर्ता से ओपन एक्सेस उपभोक्ताओं द्वारा प्रत्यक्ष रूप से क्रय की जाती है।

(घ) औचक क्षेत्रीय दौरे (विशिष्ट रूप से आंकड़ा अनियमितता हेतु) के माध्यम से मीटरिंग एजेंसी द्वारा प्रदत्त सिस्टम मीटरिंग आंकड़ा को सत्यापित और विधिमान्य बनाना।

9. वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट की संरचना - (1) वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट की संरचना दूसरी अनुसूची में उल्लिखित प्रारूप में तैयार की जाएगी।

(2) प्रत्येक प्रवर्ग के उपभोक्ताओं के लिए पृथक्त: आपूर्ति की गई ऊर्जा को लेखबद्ध करना अनिवार्य होगा, जिसे राज्य सरकार द्वारा टैरिफ में सब्सिडी की एक पृथक दर के रूप में उपबंधित किया जा रहा है, ताकि विद्युत वितरण कंपनी के लिए देय सब्सिडी की गणना तिमाही आधार पर राज्य सरकार द्वारा अधिसूचित सब्सिडी की लागू दर से ऐसे प्रत्येक प्रवर्ग के उपभोक्ताओं को आपूर्ति की गई ऊर्जा को गुणा करके की जाए।

(3) वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट निम्नलिखित करेगी –

(क) विभिन्न वोल्टेज स्तरों पर इनपुट ऊर्जा और खपत पैटर्न की निगरानी का उपबंध करेगी;

(ख) ऊर्जा रिसाव, अपव्यय या अदक्ष उपयोग के क्षेत्रों की पहचान की जाएगी;

(ग) लक्ष्य आधारित सुधारात्मक कार्रवाई शुरू करने के लिए उच्च हानि वाले क्षेत्रों /नेटवर्क की पहचान की जाएगी; तथा

(घ) आवश्यक क्षमता परिवर्धन के लिए नेटवर्क के ओवरलोड वाले खंडों की पहचान की जाएगी।

(4) प्रत्यायित ऊर्जा लेखा संपरीक्षक वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट में ऊर्जा और ऊर्जा संसाधनों के प्रबंधन में विद्युत वितरण कंपनी की क्षमता और कमजोरियों पर विशेष बल देगी और आंकड़ा, ऊर्जा प्रबंधन प्रणाली को विस्तार से, रिपोर्ट करने के तरीके में सुधार करने तथा उनके अंतर्निहित तर्क के साथ, आवश्यक कार्रवाई की सिफारिश करेगा।

(5) प्रत्यायित ऊर्जा लेखा संपरीक्षक ऊर्जा लेखापरीक्षा संचालित करने में नियोजित जनशक्ति के ब्यौरों के साथ-साथ सभी प्रत्यायन ब्यौरे देते हुए अपनी फर्म की मुहर के साथ, ऊर्जा लेखापरीक्षा रिपोर्ट पर हस्ताक्षर करेगा।

10. ब्यूरो की सिफारिश - ऊर्जा लेखापरीक्षा रिपोर्ट की प्राप्ति पर, ब्यूरो निम्नलिखित कर सकेगा -

(क) विद्युत वितरण कंपनी को ऐसी कार्रवाई करने का निदेश दे सकेगा जो वह समुचित समझे; और

(ख) केन्द्रीय सरकार को ऐसी सिफारिशें कर सकेगा, जो वह आवश्यक समझे।

प्रथम अनुसूची

[विनियम 5(घ) देखें]

मीटर संस्थापन हेतु दिशानिर्देश

(क) <u>मीटरिंग के लिए समय-सीमा</u>-

(i) 31 दिसंबर 2022 तक, एएमआई के साथ एकीकृत 100% संचारी फीडर मीटरिंग, विद्यमान गैर-संचारी फीडर मीटरों के प्रतिस्थापन सहित,

(ii) सभी वितरण ट्रांसफार्मर (25 केवीए तक के एचवीडीएस डीटी और 25 केवीए से कम के अन्य डीटी के सिवाय) को संचारी मीटरों से जोड़ा जाएगा। निम्नलिखित क्षेत्रों/उपभोक्ताओं के लिए संचारी डीटी मीटरिंग दिसंबर 2023 तक और शेष क्षेत्रों में दिसंबर 2025 तक पूरी की जाएगी:

- 500 अमरुत शहरों के सभी विद्युत प्रभाग, एटी एंड सी हानियों के साथ > 15%;
- सभी संघ राज्यक्षेत्र (तकनीकी कठिनाई वाले क्षेत्रों के लिए, गैर-संचारी मीटर संस्थापित किए जा सकेंगे);
- सभी औद्योगिक और वाणिज्यिक उपभोक्ता;
- ब्लॉक स्तर और उससे ऊपर के सभी सरकारी कार्यालय;
- अन्य उच्च हानि वाले क्षेत्र अर्थात् ग्रामीण क्षेत्र जिनमें 25% से अधिक हानि हुई है और शहरी क्षेत्रों में 15% से अधिक की हानि हुई है।

इसके अतिरिक्त, विद्यमान गैर-संचारी वितरण ट्रांसफार्मर मीटरों को सम्बद्ध क्षेत्रों को लागू समय-सीमा के भीतर एएमआई के साथ एकीकृत संचारी मीटरों से प्रतिस्थापित किया जाएगा।

(iii) सभी सीधे जुड़े मीटरों के लिए प्रीपेड स्मार्ट उपभोक्ता मीटरिंग और अन्य मीटरों के मामले में एएमआर को निम्नलिखित क्षेत्रों में दिसंबर 2023 तक पूरा किया जाना है:

- 500 अमरुत शहरों के सभी विद्युत प्रभाग, एटी एंड सी हानियों के साथ > 15%;

- सभी संघ राज्य क्षेत्र (तकनीकी कठिनाई वाले क्षेत्रों के लिए, प्रीपेड मीटर लगाए जाएं);
- सभी औद्योगिक और वाणिज्यिक उपभोक्ता;
- ब्लॉक स्तर और उससे ऊपर के सभी सरकारी कार्यालय;
- अन्य उच्च हानि वाले क्षेत्र अर्थात् ग्रामीण क्षेत्र जिनमें 25% से अधिक हानि हुई है और शहरी क्षेत्रों में 15% से अधिक की हानि हुई है।

तत्पश्चात्, शेष क्षेत्रों और उपभोक्ताओं को चरणबद्ध रीति से लिया जा सकेगा। तथापि, वितरण कंपनियां दिसंबर 2023 तक अपने विकल्प पर किसी भी अन्य क्षेत्रों के साथ-साथ कृषि उपभोक्ताओं को भी आविष्ट कर सकती हैं। इसके अतिरिक्त, ग्रामीण / पहाड़ी क्षेत्रों में संबद्धता या संचार मुद्दों के साथ, जहां स्मार्ट मीटर संस्थापन साध्य नहीं हो, वहां प्रीपेड मीटर का विकल्प चयन किया जा सकेगा।

(iv) उपभोक्ता मीटरिंग:

- वित्तीय वर्ष 2022-23 तक 98%
- वित्तीय वर्ष 2023-24 तक 99%

(ख) <u>कार्यात्मक मीटर के लिए लक्ष्य-</u>

मीटर	वित्तीय वर्ष 22-23	वित्तीय वर्ष 23-24	वित्तीय वर्ष 24-25
फीडर मीटरिंग	98.5%	99.5%	99.5%
डीटी मीटरिंग	90%	95%	98%
उपभोक्ता मीटरिंग	93%	96%	98%

दूसरी अनुसूची

[विनियम 9(1) देखें]

वार्षिक ऊर्जा लेखापरीक्षा रिपोर्ट

[विद्युत वितरण कंपनी के प्रत्यायित ऊर्जा लेखा संपरीक्षक और ऊर्जा प्रबंधक द्वारा पूर्ण किया जाए]

(क) <u>ऊर्जा लेखापरीक्षा रिपोर्ट की सांकेतिक संरचना</u> -

1. कार्यकारी सारांश
2. ऊर्जा लेखा संपरीक्षक द्वारा समालोचनात्मक विश्लेषण का सारांश (जिसके अंतर्गत ऊर्जा लेखांकन के लिए पूर्व-अपेक्षित अनुपालना की प्रास्थिति और प्रगति भी है) और प्रबंधन विश्लेषण (लेखा संपरीक्षक द्वारा टिप्पणियों पर डिस्कॉम प्रबंधन का प्रतिउत्तर)
3. पृष्ठभूमि:
   (i) विनियम विस्तार और बीईई की भूमिका
   (ii) लेखापरीक्षा और लेखांकन रिपोर्ट का प्रयोजन
   (iii) ऊर्जा लेखापरीक्षा और लेखांकन की अवधि
4. डिस्कॉम (डीसी) का परिचय
   (i) अभिहित उपभोक्ता का नाम और पता

(ii) ऊर्जा प्रबंधक का नाम और संपर्क ब्यौरे (बीईई द्वारा प्रमाणित, यदि कोई हो) और डीसी का प्राधिकृत हस्ताक्षरकर्ता (नोडल अधिकारी)

(iii) डीसी रूपरेखा का सार (आस्तियां, ऊर्जा प्रवाह, उपभोक्ता आधार, मुख्य विशेषताएं आदि)

5. चर्चा और विश्लेषण

(i) पूर्ववर्ती वर्षों के ऊर्जा खाते (चर्चा और आंकड़े सारणीबद्ध प्रारूप में)

(ii) चालू वर्ष में ऊर्जा खाते और प्रदर्शन (% हानि - कुल, वोल्टेज-वार और श्रेणी-वार, प्रभाग-वार, फीडर और डीटी-वार):

(iii) यूनिट-वार प्रदर्शन

(iv) पहले लिए गए भविष्य के लिए प्रस्तावित ऊर्जा संरक्षण उपाय

(v) ऊर्जा लेखा संपरीक्षक द्वारा समालोचनात्मक विश्लेषण

(vi) समावेशन और अपवर्जन

(vii) विस्तृत प्रारूप उपाबद्ध किए जाएं

6. आंकड़े अंतराल पर प्रश्नों और उत्तरों के साथ ईए/ईएम की टिप्पणियां

7. उपाबद्ध – रिपोर्ट के साथ संलग्न किए जाएं -

(i) सत्यापन फर्म का परिचय।

(ii) डिस्कॉम टीम के साथ हुई बैठक का कार्यवृत्त

(iii) लेखांकन फर्म द्वारा तैयार की गई जांच-सूची।

(iv) लेखापरीक्षा के लिए संक्षिप्त दृष्टिकोण, परिधि और कार्यपद्धति

(v) अवसंरचनात्मक ब्यौरे

(vi) विद्युत वितरण प्रणाली

(vii) बिजली खरीद ब्यौरे

(viii) संबंधित रेखाचित्र (एसएलडी)

(ix) सेवा ब्यौरों का प्रवर्ग (उपभोक्ता और वोल्टेज-वार सहित)

(x) उपाबद्ध किए जाने वाले विस्तृत प्रारूप

(xi) प्रत्येक मापदंड के साथ सत्यापित दस्तावेजों की सूची

(xii) यूनिट का संक्षिप्त वर्णन

(xiii) आंकड़े के स्रोत के रूप में दस्तावेजों की सूची के साथ गणना या सूत्रों के माध्यम से प्राप्त मापदंडों की सूची ।

(ख) ऊर्जा लेखांकन हेतु प्रपत्र - विद्युत वितरण कंपनी के प्रत्यायित ऊर्जा लेखा संपरीक्षक और ऊर्जा प्रबंधक द्वारा पूर्ण किया जाए -

साधारण सूचना		
1	**डिस्कॉम का नाम**	
2	**i) स्थापना का वर्ष**	
	ii) सरकार/ पब्लिक/ प्राइवेट	

3	**डिस्कॉम के संपर्क ब्यौरे और पता**				
i	शहर/ नगर/ गांव				
ii	जिला				
iii	राज्य		पिन		
iv	टेलीफोन		फैक्स		
4	**रजिस्ट्रीकृत कार्यालय**				
i	कंपनी के मुख्य कार्यपालक का नाम				
ii	पद				
iii	पता				
iv	शहर/नगर/गांव		डाकघर		
v	जिला				
vi	राज्य		पिन		
vii	टेलीफोन		फैक्स		
5	**नोडल अधिकारी का ब्यौरा***				
i	नोडल अधिकारी का नाम (डिस्कॉम में अभिहित)				
ii	पदनाम				
iii	पता				
iv	शहर/ नगर/ गाँव			डाकघर	
v	जिला				
vi	राज्य			पिन	
vii	दूरभाष			फैक्स	
6	**ऊर्जा प्रबंधक ब्यौरा***				
i	नाम				
ii	पदनाम			क्या ईए या ईएम है	
iii	ईए/ईएम रजिस्ट्रीकरण सं.				
iv	दूरभाष			फैक्स	
v	मोबाइल		ई-मेल पता	-	
7	**सूचना की अवधि**				
	सूचना वर्ष (वित्तीय वर्ष) जिसमें तारीख और मास (प्रारंभ और समाप्ति) सहित	1 अप्रैल, 20..... – 31 मार्च, 20.....			

विद्युत वितरण कंपनियों का प्रदर्शन सार			
1	सूचना वर्ष (वित्तीय वर्ष) की अवधि, जिसमें तारीख और मास (प्रारंभ और समाप्ति) भी हैं	1 अप्रैल, 20..... – 31 मार्च, 20.....	
2	**तकनीकी ब्यौरे**		
(क)	**ऊर्जा इनपुट ब्यौरे**		
(i)	इनपुट ऊर्जा खरीद (उत्पादन स्रोत से)	मिलियन किलोवाट	0.00
(ii)	निवल इनपुट ऊर्जा (डिस्कॉम परिधि में पारेषण हानियों और ऊर्जा बिक्री को समायोजित करने के बाद)	मिलियन किलोवाट	1.00
(iii)	कुल ऊर्जा बिल (क्या निवल ऊर्जा बिल ऊर्जा की बिक्री के लिए समायोजित किया गया है)	मिलियन किलोवाट	0.00
(ख)	पारेषण और वितरण (टीएंडडी) हानि ब्यौरे	मिलियन किलोवाट	0.00
		%	0.00
	संग्रह क्षमता	%	
(ग)	सकल तकनीक और वाणिज्यिक नुकसान	%	1.00

मैं/ हम वचन देता हूं / देते हैं कि इस दस्तावेज़ और प्रपत्र में दी गई सूचना मेरी / हमारी सर्वोत्तम जानकारी के अनुसार सही है और यदि प्रदान की गई कोई भी सूचना गलत पाई जाती है और ऐसी जानकारी के परिणामस्वरूप, केन्द्रीय सरकार या राज्य सरकार या उनके अधीन किसी प्राधिकारी या किसी अन्य प्रभावित व्यक्ति को हानि होती है, तो मैं / हम ऐसी हानि की क्षतिपूर्ति करने का वचन देता हूं / देते हैं।

प्राधिकृत हस्ताक्षरकर्ता और मुहर			
		हस्ताक्षर:-	
		ऊर्जा प्रबंधक का नाम*:	
प्राधिकृत हस्ताक्षरकर्ता का नाम		**रजिस्ट्रीकरण संख्या:**	
डिस्कॉम का नाम:			
पूरा पता:-			
मुहर			

प्रपत्र - इनपुट अवसंरचना का विवरण					
1	**मापदंड**	**कुल**	**लेखापरीक्षा के दौरान कवर किया गया**	**नमूना जांच में लेखा परीक्षक द्वारा सत्यापित**	**टिप्पणियां (आंकड़ा का स्रोत)**
i	सर्किल की संख्या				
ii	प्रभागों की संख्या				
iii	उप-प्रभागों की संख्या				
iv	फीडरों की संख्या				
v	डीटी की संख्या				
vi	उपभोक्ताओं की संख्या				
2	**मापदंड**	**66केवी और अधिक**	**33 केवी**	**11/22केवी**	**एलटी**
क.i.	पारंपरिक मीटर वाले उपभोक्ताओं की संख्या				
ii	'स्मार्ट' मीटर वाले उपभोक्ताओं की संख्या				
iii	'स्मार्ट प्रीपेड ' मीटर वाले उपभोक्ताओं की संख्या				
iv	' एएमआर ' मीटर वाले उपभोक्ताओं की संख्या				
v	' गैर-स्मार्ट प्रीपेड ' मीटर वाले उपभोक्ताओं की संख्या				
vi	बिना मीटर वाले उपभोक्ताओं की संख्या				
vii	**कुल उपभोक्ताओं की संख्या**				
ख.i.	पारंपरिक रूप से मीटर किए गए वितरण ट्रांसफॉर्मर की संख्या				
ii	संचारी मीटर वाले डीटी की संख्या				
iii	मीटर न की गई डीटी की संख्या				

2	मापदंड	66केवी और अधिक	33 केवी	11/22केवी	एलटी
iv	**कुल ट्रांसफॉर्मर की संख्या**				
ग.i	मीटर फीडरों की संख्या				
ii	संचारी मीटर वाले फीडरों की संख्या				
iii	बिना मीटर वाले फीडरों की संख्या				
iv	**कुल फीडरों की संख्या**				
घ.	लाइन की लंबाई (सीटी कि.मी.)				
ड.	एरियल बंचड केबल्स की लंबाई				
च.	भूमिगत केबल्स की लंबाई				

3	वोल्टेज स्तर	इनपुट ऊर्जा विवरण	एमयू	संदर्भ	टिप्पणियां (डेटा का स्रोत)
i	66 केवी और अधिक	दीर्घकालिक पारंपरिक		फ्रेंचाइजी के लिए इनपुट ऊर्जा शामिल	
		मध्यम पारंपरिक			
		अल्पावधि पारंपरिक			
		बैंकिंग			
		दीर्घकालिक अक्षय ऊर्जा			
		मध्यम और अल्पकालिक आरई		द्विपक्षीय/पीएक्स/डीईईपी से बिजली शामिल	
		कैप्टिव, ओपन एक्सेस इनपुट		डिस्कॉम को बिक्री के अलावा किसी अन्य खरीद के लिए कोई भी बिजली चक्र। फ्रेंचाइजी का इनपुट शामिल नहीं है।	
		अधिशेष बिजली की बिक्री			
		अंतर-राज्यीय ट्रांसमिशन हानि की मात्रा		एसएलडीसी, आरएलडीसी आदि द्वारा पुष्टि किए गए अनुसार	
		अंतर-राज्यीय स्रोतों से प्राप्त बिजली	0	प्रपत्र 5 के डेटा के आधार पर	
		राज्य पारेषण सीमा पर बिजली	0		

3	वोल्टेज स्तर	इनपुट ऊर्जा विवरण	एमयू	संदर्भ	टिप्पणियां (डेटा का स्रोत)
ii	33 केवी	दीर्घकालिक पारंपरिक			
		मध्यम पारंपरिक			
		अल्पावधि पारंपरिक			
		बैंकिंग			
		दीर्घकालिक अक्षय ऊर्जा			
		मध्यम और लघु अवधि			
		कैप्टिव, ओपन एक्सेस इनपुट			
		अधिशेष बिजली की बिक्री			
		अंतर-राज्यीय ट्रांसमिशन हानि की मात्रा	0		
		अंतर्राज्यीय स्रोतों से प्राप्त बिजली	0		
iii		**डिस्कॉम वायर्स नेटवर्क में इनपुट**	0		
iv	33 केवी	नवीकरणीय ऊर्जा			
		लघु क्षमता पारंपरिक/ बायोमास/ जल विद्युत संयंत्रों की खरीद			
		कैप्टिव, ओपन एक्सेस इनपुट			
v	11 केवी	अक्षय ऊर्जा खरीद			
		लघु क्षमता पारंपरिक/ बायोमास/ जल विद्युत संयंत्रों की खरीद			
		कैप्टिव, ओपन एक्सेस इनपुट			
vi	एलटी	नवीकरणीय ऊर्जा खरीद			
		बिक्री स्थानांतरण इनपुट			
vii		**डिस्कॉम तारों के नेटवर्क में निहित ऊर्जा**	0		
viii		**कुल उपलब्ध ऊर्जा/ इनपुट**	0		

4	वोल्टेज स्तर	ऊर्जा बिक्री विवरण	एमयू	संदर्भ	टिप्पणियां (आंकड़ा का स्रोत)
i	एलटी स्तर	डिस्कॉम के उपभोक्ता		फ्रेंचाइजी क्षेत्रों में उपभोक्ताओं की बिक्री, बिना मीटर वाले उपभोक्ता सम्मिलित	
		खुली पहुंच से मांग, कैप्टिव		डिस्कॉम के बिना बिक्री	
		एलटी स्तर पर प्रयुक्त अंतर्निहित उत्पादन		एलटी स्तर पर अंतर्निहित उत्पादन से मांग	
		एलटी स्तर पर बिक्री	0		
		एलटी स्तर के नुकसान की मात्रा	0		
		एलटी स्तर पर ऊर्जा इनपुट			
ii	11 केवी स्तर	डिस्कॉम के उपभोक्ता		फ्रेंचाइजी बिक्री, बिना मीटर वाले उपभोक्ता शामिल	
		खुली पहुंच से मांग, कैप्टिव		डिस्कॉम के बिना बिक्री	
		11 केवी स्तर पर एम्बेडेड पीढ़ी का इस्तेमाल किया गया		11केवी के स्तर पर अंतर्निहित उत्पादन से मांग	
		11 केवी स्तर पर बिक्री	0		
		11 केवी पर नुकसान की मात्रा	0		
		11 केवी स्तर पर ऊर्जा इनपुट			
iii	33 केवी स्तर	डिस्कॉम के उपभोक्ता		फ्रेंचाइजी क्षेत्रों में उपभोक्ताओं की बिक्री, बिना मीटर वाले उपभोक्ता सम्मिलित	
		खुली पहुंच से मांग, कैप्टिव		डिस्कॉम के बिना बिक्री	
		33 केवी या उससे नीचे के स्तर पर अंतर्निहित उत्पादन		यह डिस्कॉम और ओए की मांग है जो समान वोल्टेज स्तर पर उत्पन्न ऊर्जा के माध्यम से पूरी होती है	
		33 केवी स्तर पर बिक्री	0		
		33 केवी. पर नुकसान की मात्रा	0		
		33केवी स्तर पर ऊर्जा इनपुट			

4	वोल्टेज स्तर	ऊर्जा बिक्री विवरण	एमयू	संदर्भ	टिप्पणियां (आंकड़ा का स्रोत)
iv	> 33 केवी	डिस्कॉम के उपभोक्ता		फ्रेंचाइजी बिक्री, बिना मीटर वाले उपभोक्ता सम्मिलित	
		खुली पहुंच से मांग, बंदी		गैर डिस्कॉम की बिक्री	
		ऊर्जा की सीमा पार बिक्री			
		अन्य डिस्कॉम को बिक्री			
		बैंकिंग			
		66केवी और उससे अधिक (ईएचवी) पर बिक्री	**0**		
		कुल अपेकक्षत ऊर्जा	**0**		
		कुल ऊर्जा बिक्री	**0**		

		ऊर्जा लेखांकन सार			
5	**डिस्कॉम**	**इनपुट (एमयू में)**	**बिक्री (एमयू में)**	**हानि (एमयू में)**	हानि%
i	एलटी				
ii	11 केवी				
iii	33 केवी				
iv	> 33 केवी				
6	**ओपन एक्सेस, कैप्टिव**	**इनपुट (एमयू में)**	**बिक्री (एमयू में)**	**हानि (एमयू में)**	
i	एलटी				
ii	11 केवी				
iii	33 केवी				
iv	> 33 केवी				

डिस्कॉम के लिए हानि का अनुमान	
टीएंडडी हानि	
डी हानि	
टीएंडडी हानि (%)	
डी हानि (%)	

प्ररूप - इनपुट ऊर्जा (इनपुट ऊर्जा और अवसंरचना विवरण)			
क. ऊर्जा इनपुट और अवसंरचना का सार			
क्र.सं.	**मापदंड**	**....से....अवधि तक**	**टिप्पणियां (डेटा का स्रोत)**
क.1	इनपुट ऊर्जा खरीदी (एमयू)	0	
क.2	संचारण हानि (%)	0%	
क.3	संचारण हानि (एमयू)	0	
क.4	परिधि के बाहर बेची गई ऊर्जा (एमयू)	0	
क.5	ओपन एक्सेस बिक्री (एमयू)	0	
क.6	ईएचटी बिक्री	0	
क.7	निवल इनपुट ऊर्जा (डिस्कॉम परिधि या वितरण बिंदु पर प्राप्त) - (एमयू)	0.00	
क.8	क्या 66/33 केवी पर 100% मीटरिंग उपलब्ध है (सूची में से हाँ या नहीं का चयन करें)		
क.9	क्या 100% मीटरिंग 11केवी पर उपलब्ध है (सूची से हाँ या नहीं का चयन करें)		
क.10	डीटी पर उपलब्ध मीटरिंग का %	0%	
क.11	उपभोक्ता के स्तर पर उपलब्ध मीटरिंग का %	0%	
क.12	66केवी वोल्टेज स्तर पर फीडरों की संख्या	0	
क.13	33केवी वोल्टेज स्तर पर फीडरों की संख्या	0	
क.14	11केवी वोल्टेज स्तर पर फीडरों की संख्या	0	
क.15	एलटी फीडर स्तर की संख्या	0	
क.16	लाइन की लंबाई (सीकेटी कि.मी.) 66केवी वोल्टेज स्तर पर	0	

क.17	33केवी वोल्टेज स्तर पर लाइन की लंबाई (सीकेटी कि.मी.)	0	
क.18	11केवी वोल्टेज स्तर पर लाइन की लंबाई (सीकेटी कि.मी.)	0	
क.19	एलटी स्तर पर लाइन की लंबाई (कि.मी.)	0	
क.20	एरियल बंचड केबल्स की लंबाई	0	
क.21	भूमिगत केबल्स की लंबाई	0	
क.22	एचटी/एलटी अनुपात	0	

ख. इंजेक्शन प्वाइंटों पर इनपुट ऊर्जा की मीटर रीडिंग

क्र.सं.	क्षेत्र	जोन	वोल्टेज स्तर (केवीए)	डिवीजन (केवीए)	उप-मंडल (केवीए)	फीडर आईडी	फीडर का नाम	फीडर मीटरिंग की स्थिति (मीटर वाले/बिना मीटर/एएमआई/एएमआर)	मीटर की स्थिति (कार्यात्मक/गैर -कार्यात्मक)	अंतिम वास्तविक मीटर रीडिंग/ संचार की तिथि मीटरिंग तिथि	फीडर प्रकार (कृषि/ औद्योगिक/ मिश्रित)	संचार की स्थिति: यदि फीडर एएमआर/ एएमआई है तो % डेटा अपने आप प्राप्त होता है	संचार की स्थिति: घंटों की संख्या जब मीटर अवधि दर्शाने में असमर्थ था	संचार की स्थिति: अवधि में कुल घंटों की संख्या	...से...तक अवधि: मीटर क्रमांक	...से...तक अवधि: सीटी/ पीटी अनुपात	...से...तक अवधि: आयात (एमयू)	...से...तक अवधि: निर्यात (एमयू)	बिक्री	टिप्पणियां (डेटा का स्रोत)
ख.1																				
ख.2																				
ख.3																				
ख 4																				
ख.5																				
ख ...																				
ख ...																				
ख ...																				
ख.1000																				
ख.1001	**कुल (एमयू)**																**0.00**	**0.00**		
ख.1002	**डिस्कॉम परिधि (एमयू) में निवल इनपुट ऊर्जा**																**0.00**			

रंग कोड			मापदंड
			कृपया वोल्टेज स्तर दर्ज करें या खाली छोड़ दें
			कृपया फीडर आईडी और नाम दर्ज करें या खाली छोड़ दें
			मीटर नंबर दर्ज करें या खाली छोड़ दें
			सीटी/पीटी अनुपात दर्ज करें या खाली छोड़ दें
0			कृपया अंकीय मान या 0 दर्ज करें
			कृपया सूची में से हां या ना का चयन करें
			सूत्र संरक्षित

मैं/हम वचन देते हैं कि इस दस्तावेज़ और प्ररूप में दी गई जानकारी मेरी सर्वोत्तम जानकारी के अनुसार सही है और यदि प्रदान की गई कोई भी सूचना गलत पाई जाती है और ऐसी सूचना के परिणामस्वरूप केन्द्रीय सरकार या राज्य सरकार या उनके अधीन किसी प्राधिकारी को नुकसान होता है या कोई अन्य व्यक्ति प्रभावित होता है, तो मैं/हम ऐसे नुकसान की क्षतिपूर्ति करने का वचन देते हैं।

अधिकृत हस्ताक्षरकर्ता और मुहर		**हस्ताक्षर:-**	
अधिकृत हस्ताक्षरकर्ता का नाम		**ऊर्जा प्रबंधक नाम*:का**	
डिस्कॉम का नाम:		**रजिस्ट्रीकरण संख्या:**	
पूरा पता:-			
मुहर			

इनपुट ऊर्जा स्रोतों का विवरण								
....से.... अवधि तक								
क. संचारण परिधि पर उत्पादन (विवरण)								
क्र.सं.	**उत्पादन स्टेशन का नाम**	**उत्पादन क्षमता (मेगावाट में)**	**स्टेशन उत्पादन का प्रकार (ठोस (कोयला, लिग्नाइट)/तरल/गैस/नवीकरणीय (बायोमास-खोई)/अन्य) आधारित**	**अनुबंध का प्रकार (वर्ष/महीन/दिन में)**	**ग्रिड का प्रकार (अंतर-राज्य/अंतर-राज्यीय)**	**कनेक्शन का बिंदु (पीओसी) हानि एमयू**	**वोल्टेज स्तर (इनपुट पर)**	**टिप्पणियां (डेटा का स्रोत)**

ख. डिस्कॉम क्षेत्र में अंतर्निहित उत्पादन

क्र.सं.	उत्पादन स्टेशन का नाम	उत्पादन क्षमता (मेगावाट में)	स्टेशन उत्पादन का प्रकार (ठोस/ तरल/ गैस /अक्षय/ अन्य) आधारित	अनुबंध के प्रकार	ग्रिड का प्रकार	वोल्टेज स्तर (केवीए)	सर्किल लोड (मेगावाट)	सर्किल में ग्रास (केवीए)	सर्किल में ग्रास (एमयू में)	डिवीजन लेवल लोड (मेगावाट)	स्तर (केवीए) पर ग्रास	डिवीजन स्तर पर ग्रास (एमयू में)	सब-डिवीजन स्तर का भार (मेगावाट)	सब-डिवीजन स्तर (केवीए) पर ग्रास	सब-डिवीजन स्तर पर ग्रास (एमयू में)	टिप्पणियां (डेटा का स्रोत)

(उपभोक्ताओं का विवरण)						
बेची गई ऊर्जा का सार						
... से... अवधि तक						
क्र.सं.	**उपभोक्ताओं का प्रकार**	**उपभोक्ताओं की श्रेणी (ईएचटी/एचटी/एलटी/अन्य)**	**वोल्टेज स्तर (वोल्टेज में)**	**उपभोक्ताओं की संख्या**	**कुल खपत (एमयू में)**	**टिप्पणियां (डेटा का स्रोत)**
1	घरेलू					
2	व्यावसायिक					
3	आईपी सेट					
4	होर. और नुर. और कॉफी/चाय और रबड़ (मीटर वाले)					
5	होर. और नुर. कॉफी/चाय और रबड़ (फ्लैट)					
6	ताप और प्रेरित शक्ति					
7	जलापूर्ति					
8	पब्लिक लाइटिंग					
9	एचटी जल आपूर्ति					
10	एचटी औद्योगिक					
1 1	औद्योगिक (छोटा)					
12	औद्योगिक (मध्यम)					
13	एचटी वाणिज्यिक					
14	सरकारी अस्पतालों और अस्पतालों के लिए लागू					
15	उठान सिंचाई योजनाएं/ उठान सिंचाई समितियां					
16	एचटी आवा. अपार्टमेंट सभी क्षेत्रों के लिए					
17	मिश्रित भार					
18	सरकारी कार्यालय और विभाग					
19	अन्य-1 (यदि कोई हो, टिप्पणी में निर्दिष्ट करें)					
20	अन्य-2 (यदि कोई हो, टिप्पणी में निर्दिष्ट करें)					
21	अन्य-3 (यदि कोई हो, टिप्पणी में निर्दिष्ट करें)					
22	अन्य-4 (यदि कोई हो, टिप्पणी में निर्दिष्ट करें)					

23	अन्य-5 (यदि कोई हो, टिप्पणी में निर्दिष्ट करें)					
26						
				कुल	0	0.00	

डिवीजन-वार हानि का विवरण (नीचे टिप्पणी देखें**)

डिवीजन-वार हानि

क्र.सं.	सर्किल का नाम	सर्कल कोड	डिवीजन का नाम	... से... अवधि तक																		
				उपभोक्ता प्रोफ़ाइल									ऊर्जा मापदंड					हानि	वाणिज्यिक मापदंड				एटी एंड सी हानि (%)
														ऊर्जा बिल (एमयू)									
				उपभोक्ता श्रेणी	मीटर कनेक्शन (संख्या)	बिना मीटर कनेक्शन (संख्या)	कुल कनेक्शन (संख्या)	कनेक्शन की संख्या का %	कनेक्टेड लोड मीटर (मेगावाट)	कनेक्टेड लोड बिना मीटर (मेगावाट)	कुल कनेक्टेड लोड (मेगावाट)	कनेक्टेड लोड का %	इनपुट ऊर्जा (एमयू)	पैमाइश ऊर्जा	बिना मीटर/ आकलन ऊर्जा	कुल ऊर्जा	ऊर्जा खपत का%	टीएंडसी हानि (एमयू)	टीएंड डी हानि (%)	बिल की गई राशि रु. करोड़	एकत्रित राशि करोड़ रुपए	संग्रह क्षमता	
1				आवासीय	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
				कृषि	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एलटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एचटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				अन्य	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
उप-योग					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**
2				आवासीय	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
				कृषि	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एलटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एचटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				अन्य	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
उप-योग					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**

..					0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
...					0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
75				आवासीय	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	0%
				कृषि	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एलटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				वाणिज्यिक/ औद्योगिक-एचटी	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				अन्य	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
उप-योग					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**0%**
76	कुल			आवासीय	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%	0	0	0.00%	१००%
				कृषि	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				वाणिज्यिक/ औद्योगिक-एलटी	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				वाणिज्यिक/ औद्योगिक-एचटी	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				अन्य	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
77	**कंपनी स्तर पर**				**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**

****टिप्पण - राज्य सरकार द्वारा प्रत्येक श्रेणी के उपभोक्ताओं के लिए अलग से आपूर्ति की जाने वाली ऊर्जा को रिकॉर्ड करना अनिवार्य होगा, जिसे राज्य सरकार द्वारा टैरिफ में सब्सिडी की एक अलग दर प्रदान की जा रही है, जिससे विद्युत वितरण कंपनी के लिए देय सब्सिडी की राज्य सरकार द्वारा अधिसूचित सब्सिडी की लागू दर से ऐसे प्रत्येक श्रेणी के उपभोक्ताओं को आपूर्ति की गई ऊर्जा को गुणा करके तिमाही गणना की जा सके।**

रंग कोड	मापदंड
	कृपया सर्कल का नाम दर्ज करें
	कृपया सर्कल कोड दर्ज करें
0	कृपया अंकीय मान दर्ज करें या 0
	सूत्र संरक्षित

मैं/हम वचन देते हैं कि इस दस्तावेज़ और प्ररूप में दी गई जानकारी मेरी सर्वोत्तम जानकारी के अनुसार सही है और यदि प्रदान की गई कोई भी सूचना गलत पाई जाती है और ऐसी सूचना के परिणामस्वरूप केन्द्रीय सरकार या राज्य सरकार या उनके अधीन किसी प्राधिकारी को नुकसान होता है या कोई अन्य व्यक्ति प्रभावित होता है, तो मैं/हम ऐसे नुकसान की क्षतिपूर्ति करने का वचन देते हैं।			
अधिकृत हस्ताक्षरकर्ता और मुहर		**हस्ताक्षर:-**	
अधिकृत हस्ताक्षरकर्ता का नाम		**ऊर्जा प्रबंधक नाम*:का**	
डिस्कॉम का नाम:		**रजिस्ट्रीकरण संख्या:**	
पूरा पता:-			
मुहर			

(फीडर- वार हानि का विवरण)

				... से...तक की अवधि												
क्र.सं.	जोन	सर्किल में प्राप्त (एमयू में)	डिवीजन में प्राप्त (एमयू में)	उप-मंडल में प्राप्त (एमयू में)	स्टेशन का नाम	फीडर कोड/ आईडी	फीडर का नाम	फीडर का प्रकार (शहरी/मिश्रित/औद्योगिक/ कृषि/ग्रामीण)	फीडर मीटर का प्रकार (एएमआई/एएमआर/ अन्य)	फीडर पर प्राप्त (एमयू में फाइनल)	फीडर खपत (एमयू में)	फीडर स्तर पर अंतिम निवल निर्यात (एमयू में)	टीएंडडी नुकसान	एटी एंड सी हानि	% डेटा स्वचालित रूप से प्राप्त हुआ (यदि फीडर एएमआर/ एएमआई)	टिप्पणियां

संकेताक्षर की सूची

एमओपी	विद्युत मंत्रालय
बीईई	ऊर्जा दक्षता ब्यूरो
डिस्कॉम	वितरण कंपनी
एसडीए	राज्य नामित एजेंसी
डीसी	नामित उपभोक्ता
एनओ	नोडल अधिकारी
ईएम	ऊर्जा प्रबंधक
केवीए	किलो वोल्ट एम्पीयर
डीटी	वितरण ट्रांसफार्मर
ईएचटी	अतिरिक्त उच्च टेंशन
एचटी	उच्च टेंशन
एलअी	कम टेंशन
ओए	ओपन एक्सेस
ईए	ऊर्जा लेखा परीक्षक
एचवीडीएस	उच्च वोल्टेज वितरण प्रणाली
एटी एंड सी	कुल तकनीकी और वाणिज्यिक
टी एंड डी	संचरण और वितरण
एसएलडी	सिंगल लाइन डॉयग्राम
एफवाई	वित्तीय वर्ष
आरई	नवीकरणीय ऊर्जा
पीएक्स	पावर एक्सचेंज
डीईईपी	दक्ष बिजली मूल्य की खोज
एसएलडीसी	राज्य लोड प्रेषण केंद्र
आरएलडीसी	क्षेत्रीय भार प्रेषण केंद्र
ईएचवी	अतिरिक्त उच्च वोल्टेज
एमयू	मिलियन यूनिट
सीकेटी	सर्किट किलोमीटर
एएमआर	स्वचालित मीटर रीडिंग
एएमआई	उन्नत मीटरिंग अवसंरचना
सीटी	मौजूदा ट्रांसफॉर्मर
पीटी	संभावित ट्रांसफार्मर
एमडब्ल्यू	मेगा वाट
पीओसी	कनेक्शन का बिंदु
अमरुत	कायाकल्प और शहरी परिवर्तन के लिए अटल मिशन

अभय बाकरे, महानिदेशक

[विज्ञापन-III/4/असा./299/2021-22]

BUREAU OF ENERGY EFFICIENCY

NOTIFICATION

New Delhi, the 6th October, 2021

No. 18/1/BEE/DISCOM/2021.—Whereas the draft regulations namely, the Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit (Accounting) in Electricity Distribution Companies) Regulations, 2021, were published vide notification No.18/1/BEE/DISCOM/2021, dated the 15th April, 2021 in the Gazette of India, Extraordinary, Part III, Section 4, as required under sub-section (1) of section 58 of the Energy Conservation Act, 2001 (52 of 2001) inviting objections and suggestions from all persons likely to be affected thereby within forty-five days from the date of publication of the Notification in the Official Gazette;

AND WHEREAS objections and suggestions received with respect to the said draft regulations within the specified period aforesaid have been duly considered;

NOW, THEREFORE, in exercise of the powers conferred by clause (g) of sub-section (2) of section 58, read with clause (q) of sub-section (2) of section 13 of the Energy Conservation Act, 2001 (52 of 2001), the Bureau of Energy Efficiency, with the previous approval of the Central Government, hereby makes the following regulations, namely:--

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

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

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

2. **Definitions.-** (1) In these regulations, unless the context otherwise requires, —

   (a) "Act" means the Energy Conservation Act, 2001 (52 of 2001);

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

   (c) "annual energy audit report" means the report on annual energy audit;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(b) conduct its subsequent periodic energy accounting for each quarter of the financial year for a period of two financial years from the date of such commencement,

and submit the periodic energy accounting report within sixty days from the date of periodic energy accounting.

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

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

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

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

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

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

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

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

Provided that such system may be established—

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(3) The accredited energy auditor shall—

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

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

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

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

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

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

(I) data collection and verification of energy distribution—

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

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

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

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

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

(c) boundary meter details;

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

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

(II) data verification, validation and correction—

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

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

(i) recorded system meter reading by metering agency;

(ii) all the input points of transmission system;

(iii) details provided by the transmission unit;

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

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

(vi) system loading and corresponding infrastructure;

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

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

9. Structure of the annual energy audit report.- (1) The structure of annual energy audit report shall be prepared in the format as set-out in the Second Schedule.

(2) 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.

(3) The annual energy audit report shall—

(a) provide for monitoring of input energy and consumption pattern at various voltage levels;

(b) identify the areas of energy leakage, wastage or inefficient use;

(c) identify high loss-making areas and networks, for initiating target based corrective action; and

(d) identify overloaded segments of the network for necessary capacity additions.

(4) The accredited energy auditor shall highlight the strengths and weaknesses of the electricity distribution company in the management of energy and energy resources in the annual energy audit report and recommend necessary action to improve upon method of reporting data, energy management system in detail along with their underlying rationale.

(5) The accredited energy auditor shall sign the energy audit report under the seal of its firm giving all the accreditation details along with details of manpower employed in conducting the annual energy audit.

10. Report of Bureau.- On receipt of the annual energy audit report, the Bureau may—

(a) direct the electricity distribution company to take such actions as it may consider appropriate; and

(b) make such recommendations to the Central Government as it may consider necessary.

THE FIRST SCHEDULE

[See regulation 5(d)]

TRAJECTORY FOR METER INSTALLATION

(A) Timeline for metering—

(i) 100% Communicable Feeder Metering integrated with AMI, by 31st December 2022 along-with replacement of existing non-communicable feeder meters.

(ii) All Distribution Transformers (other than HVDS DT upto 25kVA and other DTs below 25 kVA) shall be metered with communicable meters. Communicable DT Metering for the following areas / consumers to be completed by December 2023 and in balance areas by December 2025:

- All Electricity Divisions of 500 AMRUT cities, with AT&C Losses > 15% ;
- All Union Territories (for areas with technical difficulty, non-communicable meters may be installed);
- All Industrial and Commercial consumers;
- All Government offices at Block level and above;
- Other high loss areas i.e. rural areas with losses more than 25% and urban areas with losses more than 15%.

Further, existing non-communicable Distribution Transformer meters to be replaced with communicable meters integrated with AMI, within the timelines applicable to the respective areas.

(iii) Prepaid Smart Consumer Metering to be completed for all directly connected meters and AMR in case of other meters, by December 2023 in the following areas:

- All Electricity Divisions of 500 AMRUT cities, with AT&C Losses > 15%;
- All Union Territories (for areas with technical difficulty, prepaid meters to be installed);
- All Industrial and Commercial consumers;
- All Government offices at Block level and above;
- Other high loss areas i.e. rural areas with losses more than 25% and urban areas with losses more than 15%.

The balance areas and consumers may be taken up in a phased manner subsequently. However, Distribution Companies can additionally cover any other areas as well as agricultural consumers, at their option by December 2023. Further, in rural / hilly areas with connectivity or communication issues, wherein installation of smart meters may not be feasible, prepaid meters may be opted for.

(iv) Consumer Metering:

- 98% by FY 2022-23
- 99% by FY 2023-24

(B) Targets for functional meters—

Meter	FY 22-23	FY 23-24	FY24-25
Feeder metering	98.5%	99.5%	99.5%
DT metering	90%	95%	98%
Consumer metering	93%	96%	98%

THE SECOND SCHEDULE

[*See regulation 9(1)*]

ANNUAL ENERGY AUDIT REPORT

[to be completed by the Accredited Energy Auditor and Energy Manager of the Electricity Distribution Company]

(a) **Indicative Structure of Energy Audit Report—**

1. Executive Summary
2. Summary of Critical Analysis by Energy Auditor (including status and progress in compliance to pre-requisites to energy accounting) and Management Analysis (Responses of DISCOM management on Comments by Auditor)
3. Background—
    (i) Extant Regulations and role of BEE
    (ii) Purpose of audit and accounting Report
    (iii) Period of Energy Auditing and accounting
4. Introduction of DISCOMs (DC) —
    (i) Name and Address of Designated Consumer
    (ii) Name and contact details of energy manager (BEE Certified, if any) and Authorized signatory of DC (Nodal Officer)
    (iii) Summary profile of DCs (Assets, Energy Flow, Consumer base, salient features etc.)
5. Discussion and Analysis—
    (i) Energy accounts for previous years (Discussion and data in tabular format)
    (ii) Energy accounts and performance in the current year (% losses – aggregate, voltage-wise and category-wise, division-wise, feeder and DT wise):
    (iii) Unit-wise performance
    (iv) Energy Conservation measures already taken and proposed for future
    (v) Critical analysis by Energy Auditor
    (vi) Inclusion and Exclusions
    (vii) Detailed Formats to be annexed
6. Notes of the EA/EM along with queries and replies to data gaps.
7. Annexures—to be accompanied with the Report—
    (i) Introduction of Verification Firm.
    (ii) Minutes of Meeting with the DISCOM team
    (iii) Check List prepared by auditing Firm.
    (iv) Brief Approach, Scope & Methodology for audit
    (v) Infrastructure Details
    (vi) Electrical Distribution System
    (vii) Power Purchase Details
    (viii) Line Diagram (SLD)
    (ix) Category of service details (With Consumer and voltage-wise)
    (x) Detailed Formats to be annexed
    (xi) List of documents verified with each parameter
    (xii) Brief Description of Unit
    (xiii) List of Parameters arrived through calculation or formulae with list of documents as source of data

(b) Form for Energy Accounting - to be completed by the Accredited Energy Auditor and Energy Manager of the Electricity Distribution Company—

General Information					
1	**Name of the DISCOM**				
2	**i) Year of Establishment**				
	ii) Government/Public/Private				
3	**DISCOM's Contact details & Address**				
i	City/Town/Village				
ii	District				
iii	State			Pin	
iv	Telephone			Fax	
4	**Registered Office**				
i	Company's Chief Executive Name				
ii	Designation				
iii	Address				
iv	City/Town/Village			P.O.	
v	District				
vi	State			Pin	
vii	Telephone			Fax	
5	**Nodal Officer Details**				
i	Nodal Officer Name (Designated at DISCOM's)				
ii	Designation				
iii	Address				
iv	City/Town/Village			P.O.	
v	District				
vi	State			Pin	
vii	Telephone			Fax	
6	**Energy Manager Details**				
i	Name				
ii	Designation			Whether EA or EM	
iii	EA/EM Registration No.				
iv	Telephone			Fax	
v	Mobile		E-mail ID		
7	**Period of Information**				
	Year of (FY) information including Date and Month (Start & End)	1st Apr, 20 – 31ST March, 20			

Performance Summary of Electricity Distribution Company			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr, 20 - 31st March, 20	
2	**Technical Details**		
(a)	**Energy Input Details**		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	0.00
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	0.00
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	0.00
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.00
		%	0.00
	Collection Efficiency	%	
(c)	Aggregate Technical & Commercial Loss	%	0.00

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.

Authorized Signatory and Seal			
		Signature:-	
		Name of Energy Manager:	
Name of Authorized Signatory		**Registration Number:**	
Name of the DISCOM:			
Full Address:			
Seal			

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				
ii	Number of divisions				
iii	Number of sub-divisions				
iv	Number of feeders				
v	Number of DTs				
vi	Number of consumers				
2	**Parameters**	**66kV and above**	**33kV**	**11/22kV**	**LT**
a. i.	Number of conventional metered consumers				
ii	Number of consumers with 'smart' meters				
iii	Number of consumers with 'smart prepaid' meters				
iv	Number of consumers with 'AMR' meters				
v	Number of consumers with 'non-smart prepaid' meters				
vi	Number of unmetered consumers				
vii	**Number of total consumers**				
b.i.	Number of conventionally metered Distribution Transformers				
ii	Number of DTs with communicable meters				
iii	Number of unmetered DTs				
iv	**Number of total Transformers**				
2	**Parameters**	**66kV and above**	**33kV**	**11/22kV**	**LT**
c.i.	Number of metered feeders				
ii	Number of feeders				

	with communicable meters				
iii	Number of unmetered feeders				
iv	**Number of total feeders**				
d.	Line length (ct km)				
e.	Length of Aerial Bunched Cables				
f.	Length of Underground Cables				

3	Voltage level	Input Energy Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional		Includes input energy for franchisees	
		Medium Conventional			
		Short Term Conventional			
		Banking			
		Long-Term Renewable energy			
		Medium and Short-Term RE		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			
		Quantum of inter-state transmission loss		As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	0	Based on data from Form 5	
		Power at state transmission boundary	0		

3	Voltage level	Input Energy Particulars	MU	Reference	Remarks (Source of data)
ii	33kV	Long-Term Conventional			
		Medium Conventional			
		Short Term Conventional			
		Banking			
		Long-Term Renewable energy			
		Medium and Short-Term			

		Captive, open access input			
		Sale of surplus power			
		Quantum of intra-state transmission loss	0		
		Power procured from intra-state sources	0		
iii		**Input in DISCOM wires network**	0		
iv	33 kV	Renewable energy			
		Small capacity conventional/ biomass/ hydro plants Procurement			
		Captive, open access input			
v	11 kV	Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants Procurement			
		Sales Migration Input			
vi	LT	Renewable Energy Procurement			
		Sales Migration Input			
vii		**Energy Embedded within DISCOM wires network**	0		
viii		**Total Energy Available/ Input**	0		

4	**Voltage level**	**Energy Sales Particulars**	**MU**	**Reference**	**Remarks (Source of data)**
i	LT level	DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Embedded generation used at LT level		Demand from embedded generation at LT level	
		Sale at LT Level	0		
		Quantum of LT level losses	0		
		Energy Input at LT level			
4	**Voltage level**	**Energy Sales Particulars**	**MU**	**Reference**	**Remarks (Source of data)**
ii	11 kV level	DISCOM' consumers		Include franchisee sales, unmetered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Embedded generation at 11 kV level used		Demand from embedded generation at 11kV level	
		Sale at 11 kV Level	0		
		Quantum of Losses at 11 kV	0		
		Energy Input at 11 kV level			
iii	33 kV level	DISCOM' consumers		Include sales to consumers in franchisee areas,	

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

Energy Accounting Summary					
5	**DISCOM**	**Input (in MU)**	**Sale (in MU)**	**Loss (in MU)**	Loss %
i	LT				
ii	11 Kv				
iii	33 kv				
iv	> 33 kv				
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	
D loss	
T&D loss (%)	
D loss (%)	

Form-Input energy(Details of Input energy & Infrastructure)			
A. Summary of energy input & Infrastructure			
S.No	**Parameters**	**Period From….To….**	**Remarks (Source of data)**
A.1	Input Energy purchased (MU)	0	
A.2	Transmission loss (%)	0%	
A.3	Transmission loss (MU)	0	
A.4	Energy sold outside the periphery(MU)	0	
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)		
A.9	Is 100% metering available at 11 kV (Select yes or no from list)		
A.10	% of metering available at DT	0%	
A.11	% of metering available at consumer end	0%	
A.12	No of feeders at 66kV voltage level	0	
A.13	No of feeders at 33kV voltage level	0	
A.14	No of feeders at 11kV voltage level	0	
A.15	No of LT feeders level	0	
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	0	
A.19	Line length (km) at LT level	0	
A.20	Length of Aerial Bunched Cables	0	
A.21	Length of Underground Cables	0	
A.22	HT/LT ratio	0	

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	Feeder Type (Agricultural/ Industrial/Mixed)	Status of Communication			Period from…to…				Sales	Remarks (Source of data)
										Date of last actual meter reading/ communication		% data received 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																				
B.2																				
B.3																				
B.4																				
B.5																				
B…																				
B…																				
B…																				
B.1000																				
B.1001	**Total (MU)**																	**0.00**	**0.00**		
B.1002	**Net input energy at DISCOM periphery (MU)**																	**0.00**		

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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Authorized Signatory and Seal		**Signature:-**	
Name of the DISCOM:		**Name of Energy Manager:**	
Full Address		**Registration Number:**	
Seal			

Details of Input Energy Sources								
Period From….To.…								
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 in MU**	**Voltage Level (At input)**	**Remarks (Source of data)**

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 (KV)**	**Circle Load (MW)**	**Received at Circle (KV)**	**Received at Circle (In MU)**	**Division Level Load (MW)**	**Received at Division Level (KV)**	**Received at Division Level (In MU)**	**Sub-Division Level Load (MW)**	**Received at Sub-Division Level (KV)**	**Received at Sub-Division Level (In MU)**	**Remarks (Source of data)**

(Details of Consumers)						
Summary of energy sold						
Period From….To….						
S.No	**Type of Consumers**	**Category of Consumers (EHT/HT/LT/Others)**	**Voltage Level (In Voltage)**	**No of Consumers**	**Total Consumption (In MU)**	**Remarks (Source of data)**
1	Domestic					
2	Commercial					
3	IP Sets					
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)					
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)					
6	Heating and Motive Power					
7	Water Supply					
8	Public Lighting					
9	HT Water Supply					
10	HT Industrial					
11	Industrial (Small)					
12	Industrial (Medium)					
13	HT Commercial					
14	Applicable to Government Hospitals & Hospitals					
15	Lift Irrigation Schemes/Lift Irrigation Societies					
16	HT Res. Apartments Applicable to all areas					
17	Mixed Load					
18	Government offices and department					
19	Others-1 (if any , specify in remarks)					
20	Others-2 (if any , specify in remarks)					
21	Others-3 (if any , specify in remarks)					
22	Others-4 (if any , specify in remarks)					
23	Others-5 (if any , specify in remarks)					
24						
25						
……						
…….						
			Total	0	0.00	

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

Division Wise Losses																					
S.No	Name of circle	Circle code	Name of Division	Period From….To….																	
				Consumer profile									Energy parameters					Losses		Commercial Parameter			
														Billed energy (MU)									
				Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load metered (MW)	Connected Load Un-metered(MW)	Total Connected Load (MW)	% of connected load	Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy	% of energy consumption	T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	AT & C loss (%)
1				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial / Industrial-LT	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial / Industrial-HT	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Others	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
Sub-total					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**
2				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial / Industrial-LT	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	

				/ Industrial-HT																		
				Others	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
Sub-total					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**
..					0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
…					0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	100%
75				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%			0.00%	0%
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial / Industrial-LT	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Commercial / Industrial-HT	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
				Others	0	0	0	0%	0	0	0	0%		0	0	0	0%					0.00%	
Sub-total					**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**0%**
76	Total			Residential	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0%	0	0	0.00%	100%
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				Commercial / Industrial-LT	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				Commercial / Industrial-HT	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				Others	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
77	**At company level**				**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**100%**	**0**	**0**	**0**	**0**	**100%**	**0**	**0%**	**0**	**0**	**0.00%**	**100%**

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

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

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Authorized Signatory and Seal		**Signature:-**	
Name of the DISCOM:		**Name of Energy Manager:**	
Full Address		**Registration Number:**	
Seal			

(Details of Feeder-wise Losses)																
Period From.…To.…																
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 (AMI/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**

List of Abbreviations

AMI	Advanced Metering Infrastructure
AMR	Automated Meter Reading
AMRUT	Atal Mission for Rejuvenation and Urban Transformation
AT & C	Aggregate Technical and Commercial
BEE	Bureau of Energy Efficiency
ckt	Circuit Kilometer
CT	Current Transformer
DC	Designated Consumer
DEEP	Discovery of Efficient Electricity Price
DISCOM	Electricity Distribution Company
DT	Distribution Transformer
EA	Energy Auditor
EHT	Extra High Tension
EHV	Extra High Voltage
EM	Energy Manager
EM	Energy Manager
FY	Financial Year
HT	High Tension
HVDS	High Voltage Distribution System
KVA	Kilo Volt Ampere
LT	Low Tension
MoP	Ministry of Power
MU	Million Unit
MW	Mega Watt
NO	Nodal Officer
OA	Open Access
POC	Point of Connection
PT	Potential Transformer
PX	Power Exchange
RE	Renewable Energy
RLDC	Regional Load Dispatch Centre
SDA	State Designated Agency
SLD	Single Line Diagram
SLDC	State Load Dispatch Centre
T & D	Transmission and Distribution

ABHAY BAKRE, Director General

[ADVT.-III/4/Exty./299/2021-22]

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Appendix – I

list of Auditing Firms Empanelled for DISCOM Sector as on 06.04.2023

S. No.	Name of firm	Company's Registration Under	Name of Lead Accredited Energy Auditor	Office Postal Address with Email Id & Contact Nos.	Names of additional AEAs and CEAs		DISCOMs
1	The Energy and Resources Institute (TERI)	Socities Registration Act, 1860	Mr. G.R. Narsimha Rao, AEA-001	Southern Regional Centre, 4th Main, 2nd cross, Domlur II Stage, Bangalore – 560071, Tel. No. 25356590 Mob. No. 09811392264 / 9448083750, Fax. No. 011 24682144, Email : grnrao@teri.res.in, girishs@teri.res.in	Mr. T. Senthil Kumar, AEA 066 Mr. D. Ramesh, AEA 0120 Mr. Kumaraswamy C.S, AEA 0273 Mr. R Vijay Mohan, AEA 0317		☑
						Sector Experts	Mr R. V Dilip Kumar
2	Zenith Energy Services Pvt. Ltd.	Companies Act, 1956	Mr. R. Gopalakrishna, AEA-0123	3rd Floor, C 1, Spaces & More Business Park, Vittal rao Nagar, M3 Block, Madhapur, Hyderabad - 500081, Mob. No. 8328415852, 9391001479, 6281113459, Email : rgk@zenithenergy.com , zenith@zenithenergy.com, mohan@zenithenergy.com, rgk3943@gmail.com	Mr. Venkateswarlu Yerragunta, EA - 17704 Mr. Sasidhar Rayachoti, EA - 7970 Mr. Dasika Siva Rama Krishna, AEA - 0322		☑
						Sector Experts	Mr. L Radha Krishna
3	Active Energy OPC Private Limited	Companies Act, 2013	Mr. Prabodh Kala, AEA-0122	C - 1010, Kailas Business Park, Vikhroli (W), Mumbai - 400079, Tel. No. 022 49615830, Mob. No. 09004346637, 9821592213, Fax. No. 022-25272960, Email : prabodh@activeenergy.in, prabodhkala@rediffmail.com	Mr. Dharmanand B. Kamble, CEA- 9324 Mr. Chandan Changrani, CEA-10447 Mr. Kunal Kumar Saxena, CEA- 14635 Mr. Lokesh Chourasia, AEA- 0302 Ms. Prachi Pal, CEA- 28542 Mr. Gajanan G. Gokhale, CEA- 5555		☑
						Sector Experts	Mr. Gajanan G Gokhale
4	MCJ Energy Engineers Pvt. Ltd.	Companies Act, 1956	Mr. Moolchand Jain, AEA-0030	244, Chouhan Estate, G. E. Road, Supela, Bhilai – 490023 (C.G.), Tel. No. 7882350477, Mob. No. 9752587060, 9893008136, Email : mcjain1948@gmail.com , mc_jain@yahoo.com	Mr. G. Krishnakumar, EA -0319 Mrs. Dipti Jain, CEA - 17470 Mr. Dhanraj P. Vishwakarma, CEA - 1099		☑
						Sector Experts	Mr Manoj Dey
5	A-Z Energy Engineers Pvt. Ltd.	Companies Act, 1956	Dr. P.P. Mittal, AEA -011	103-104 Krishna House 4805/24, Bharat Ram Road, Darya Ganj, New Delhi – 110002 Tel. No. 0129 4046120, 011 23240541/42/43, Mob. No. 09811402040, Fax. No. 01123240544 Email : pp_mittal@yahoo.com, info@azenergyengineers.in	Mr. Satwinder Singh, AEA - 0294 Mr. V.P.Sharma, EA-10061, Mr. Ishwar Chander Mittal, EA-21615 Ms. Surbhi Sinha, EA - 0320 Mr. Yogesh Mittal, EA - 28208		☑

						Sector Experts	Mr R G Moitra Dr. P.P. Mittal
6	Padmashtdal Energy Services Pvt. Ltd.	Companies Act, 1956	Mr. Kamalesh Kumar Jha, AEA-007	320, Janaki Appt Sec 22 Dwarka, New Delhi - 110077, Tel. No. 011 28051185, Mob. No. 09810392563, Email : kkjha65@gmail.com, pespl0412@gmail.com	Mr. Vivek Agarwal, CEA-2999 Mr. S.B. Pandey, CEA-5768 Mr. Santosh Satyanarayan Malani, CEA- 14799 Mr Gotam Dam, CEA- 15151		☑
						Sector Experts	Mr. C K Sood
7	Kerala State Productivity Council	Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act XII OF 1955	Mr. Shanavaz.K.M, AEA-099	House, P. B. No. 8, HMT Road, Kalamassery, Cochin – 683104, Kerala, India, Tel. No. +91 4842555526, 2555367, Mob. No. 9447816767, Fax. No. +91 484 2532107, Email : kmshanavaz@kspconline.com, mail@kspconline.com	Mr. A.P.Jose, EA - 0464, Mr. Richu Zachariah, EA- 27720 Mr. Sriram Athimoolam, EA - 20758		☑
						Sector Experts	Mr. K.M. Shanavaz

8	Enkon Engineers	Indian Partnership Act, 1932	Mr. Surinder Kumar Kansal, AEA-0129	249, Housing Board Phase II, Baddi – 173205, Himachal Pradesh, Tel. No. 0172 2971562, Mob. No. 09216942551, 9418142555, Email : skkansal1950@gmail.com, enkon.ers@gmail.com	Mr. Vijay Kumar Gupta, EA-11619, Mr. Amit Kumar Gupta, EA- 9472, Mr. Som Nath Bansal, EA- 10709		☑
						Sector Experts	Mr. S.K.Kansal
9	Federation of Indian Chambers of Commerce and Industry (FICCI)	Companies Act, VII of 1913	Mr. M.N. Girish, AEA-013	Federation house, Tansen Marg, New Delhi - 110001, Tel. No. 01123357569, Mob. No. 09810082612, Fax. No. 01123721504, Email : mn.girish@ficci.com, ma.patil@ficci.com	Mr. M.A.Patil, AEA - 0232 Mr. Pushpendra Nayak, AEA - 248 Mr. Shashidhar Dhareshwar, AEA - 298 Mr. Govind Patel, CEA - 2438 Mr. Sanjoy P Bordoloi, AEA - 254 Mr. Akhilesh Kumar Verma, AEA - 0194 Mr. T Sivakumar, AEA - 0296 Mr. Vijayarengamani R, AEA - 0074		☑
						Sector Experts	Mr P A Shah
10	Katyani Energy Solution Pvt. Ltd.	Companies Act, 1956	Mr. R. K. Jain, AEA - 0043)	138B/1, 3RD FLOOR, MOHMMADPUR VILL. BEHIND AUGUST KRANTI BHAWAN NEW DELHI-110066, Mob. No. 9868615189, 9717772068, Ph. No. 011407933249, Email: Katyanienergy@gmail.com, mukesh.kaju@gmail.com, rajesh492003@gmail.com	Mr. Sankar Kumar Chattopadhyay, EA-5288, Mr. Bhupendra Jain, EA - 28921 Mr. Manoj Kakar EA-10772 Mr. A K Jain EA - 9553		☑
						Sector Experts	Mr. Abhay Kumar Jain

11	Ganges Consultancy	Indian Partnership Act, 1932	Mr. Anoop Kumar Gupta, AEA-0125	273 – Y/1, Block kidwai Nagar, Kanpur – 208011, U. P., Tel. No. 01887221504, Mob. No. 9464005209 / 08510810909, Email : gangesconsultancy@gmail.com, gangesconsultancy@yahoo.com	Mr. Abhey Kumar Mehta, EA-9922, Mr. Sanjay Kumr Gupta, EA-3923, Mr. Rajesh Kumar Budhiraja, EA-0433 Mr. Sukhdev Singh Minhas, EA - 11627 Mr. Arun Kumar Dutta, AEA -0305 Mr. Indrajit Kumar, EA -33094/21		☑
						Sector Experts	Bhupinder Pal Singh Gill
12	PGS Energy Services Private Limited	Companies Act, 2013	Mr. Pradeep Dhingra, AEA-191	E-4/1602 , The meadows, Adani Shantigram, Ahmedabad (Gujrat) Pin 382421, SCO 128,first Floor, Sector 5 MDC, Panchkula(Haryana) Pin 134114. Tel. No.0172-4605017, Mob. No. 09876105017,9876121668, Email : pd@pgsenergyservices.com, info@pgsenergyservices.com	Mr. S Kannan, AEA - 0190 Mr. Harpal Singh, EA-09529 Dr. Mandeep Singh, EA- 6761 Mr. Kalpesh Shah, EA - 2939 Mr. Prakash Makhijani, EA- 24089 Mr. Vikas Singla, EA - 2470 Mr T Sudara Pandiyan, EA -7959 Mr. Balkar Singh, EA - 11751		☑
						Sector Experts	Mr. Prasanta Kumar Pradhan
13	Centre for Energy, Environment and Productivity	Indian Partnership Act, 1932	Mr. J. Nagesh Kumar, AEA-133	1039, 26th Street, H Block, Ponni Colony, Anna Nagar, Chennai 600040, Mob. No. 9444882553 / 8668115663, Email : tallkumar@gmail.com, ceepnagesh@gmail.com	Mr. P. Sellamuthu, EA- 0301, Mr. V. Mahesh Mohan, EA- 302, Mr. K. G. Divakar, EA-28672		☑
						Sector Experts	Mr. Sunil Kumar
14	Power Tech Consultants	Indian Partnership Act 1932	Mr. Bibhu Charan Swain, AEA-0121	K - 8-82, Kalinga Nagar, Ghatikia, Bhubaneswar - 751029, Odisha, Mob. No. 9437155337, 9937112760, 8327733623, Email Id: pwrtch@gmail.com, bibhusir@gmail.com	Mr. Santosh Kumar Jena, EA - 5037 Mr. Nilamani Behera, EA - 9407 Mr. Sharada Prasanna Nanda, EA - 4578 Mr. Anil Pattnaik, EA - 21900 Mr. Maheshwar Prasad, EA - 9902 Mr. Pradeep Kumar, EA - 1280		☑
						Sector Experts	Mr. Sangram Kesari Routray Mr. Dambarudhar Kar

15	Namdhari Eco Energies Pvt. Ltd.	Companies Act, 2013	Mr. Shri Bali Singh, AEA-0206	C 105 Galaxy Vega Techzone 4 Greater Noida 201306. Uttar Pradesh. Mob. No. 9711591550 Email Id: bali@ecoenergies.co.in	Mr. Ranjit Daimary, EA - 14328, Mr. Jagbir Singh, EA - 28449 Mr. Keshav Verma , EA - 12974		☑
						Sector Experts	Mr Sachin Kumar Gupta
16	Electrical Research & Development Association	Socities Registration Act, 1860	Mr. Bhavesh Vasiyani, AEA-0016	Erda Road, G. I. D. C., Makarpura Indusrial Estate, Vadodara-390010, Mob. No. 07574850913, Email Id: bhavesh.vasiyani@erda.org, dir@erda.org, arunesh.dwivedi@erda.org	Mr. Arunesh Dwivedi, AEA-288 Mr. Ramkishor Jaiswal, AEA-281 Mr. Pankaj Chawla, EA-3926 Mr. Robert Macwan, EA-22359, Mr. Kuldeep Ruparelia, EA-29539		☑
						Sector Experts	Mr. Rameshchandra Manshuklal Panchal
17	A.R.S. Energy Auditors	Indian Partnership Act 1932	Mr. Sachin S. Deshpande, AEA- 0261,	A/1, A/101, Pramodini Palace Chs Ltd., near Air India colony, Virar (E) - 401305, Ph. No. 7350584488/ 9561036177, Mob. No. 7507184478 Email Id: sachin.ameya@gmail.com, sachin@arsenergyauditors.com	Mr. Surendra P. Bankar, AEA- 0118 Mr. Sunil Apte, EA-7559 Mr. Abhinav Apte, CEA - 19667 Mr. Pramod N. Daspute, EA-6453		☑
						Sector Experts	Mr. Bhaskar Raval
18	PPS Energy Solutions Pvt. Ltd.	Companies Act, 1956	Mr. Ravi Deshmukh, AEA - 0243	B-403, Bharti Vihar, S. No.-78, Bharti Vidyapith Campus, Katraj, Pune 411046, Mob. No. 8308327696, 9422857458, Email: ravi@ppsenergy.in, office@ppsenergy.in	Mr. H. S. Moorthy, EA - 2972 Mr. Dinesh Bharate, EA - 24237 Mr. A. R. Dande, EA - 29574 Mr. R.V. Nesari, EA - 0197 Mr. Pramod P Kembhavi, AEA- 0233		☑
						Sector Experts	Mr Ravi Deshmukh
19	East Coast Sustainable Private Limited	Companies Act, 2013	Mr. G Srinivasa Rao, AEA - 0251	6-80/1, Priya Gardens, PO Simhachalam, Visakhapatnam - 530028, Andhra Pradesh, India Mob. No. 97053 00059, Email: srinivasa.gandepalli@eastcoast.net.in, gandepalli.srinivasarao@gmail.com	Mr. G Harihara Lyer, EA -1341 Mr. V. Suresh, EA -12312 Mr. Pulavarty Veera Ramprasad, EA-1573 Mr. Ravinder Vannam, EA - 113585 Mr. R. V. Ramana Rao, EA - 1600		☑
						Sector Experts	Mr R V Ramana Rao Mr. S. Janardhana Rao

20	M/s R. K Energy Solutions	Indian Partnership Act 1932	Mr. R. K. Aggarwal, AEA - 0111	174 H I G, Urban Estate, Phase - 1, Jallandhar City - 144022, Phone No. 0181 2481090, Mob. No. 9855613294, Email Id: aggarwal_ramesh@yahoo.co.in, rkenergysolutions1@gmail.com	Mr. R. K. Sharma, EA-10080 Mr. Kamal Goyal, EA-27111 Mr. Ashish Vashishth, EA-0140 Mr. Harvinder Singh, EA - 12433		☑
						Sector Experts	Mr R. K Aggarwal
21	M/s Operative Save Urja Solutions Pvt. Ltd.	Companies Act, 2013	Mr. Vishal Goyal, AEA-0299	C-611, Sector - 1, Avantika, Rohini, New Delhi - 110085 Mob. No. 8447401115 Email. Id: saveurjasolutions@gmail.com info@saveurjasolutions.co.in	Mr. Gaurav Gupta, EA - 20359 Mr. Shivam Kumar EA- 28565 Mr. Y C Gupta AEA - 0034 Mr. Akshay Kumar, EA - 300046 Mr. K. G. Sudhan Ramkumar, EA - 16183		☑
						Sector Experts	Akshay Kumar

22	M/s Ingenius Energy Consultancy Private Limited	Companies Act, 2013	Mr. Ameet Jain, AEA - 0280	57/10, Near Nagar East, Street No. 9, Near Jain Mandir, Bhilai - 490020, Chhattisgarh, Mob. No. 07883560114, 7000454505, 9981900123, 8319653798, Email - ameetjain07@gmail.com	Mr. Anant Kumar Purohit, EA - 16538 Mr. Shailendra Kumar Pandey, EA - 25282 Mr. Sudhir Kumar Fule, EA - 23528 Mr. Ashok Kumar Singh, EA - 2117		☑
						Sector Experts	Mr. Ashok Kumar Guha