



# ASSAM ELECTRICITY GRID CORPORATION LIMITED

OFFICE OF THE MANAGING DIRECTOR

Regd. Office:(FIRST FLOOR), BIJULEE BHAWAN, PALTANBAZAR; GUWAHATI - 781001

CIN: U40101AS2003SGC007238GSTIN: 18AAFCA4973J9Z3

PHONE: 0361-2739520 Web: [www.aegcl.co.in](http://www.aegcl.co.in) Email: [gm.mpr@aegcl.co.in](mailto:gm.mpr@aegcl.co.in)

IFB No.: AEGCL/MD/Tech-6/BD/Port. Audit/2026/IFB

Date: 12.05.2026

## Invitation for Bid (IFB)

**1.0** The ASSAM ELECTRICITY GRID CORPORATION LIMITED, (“the Purchaser”) invites **online bids** (Through E-tendering portal) from eligible bidders for the work-  
**“Engagement of a Third-Party Agency for Conducting Protection System Audit of Twenty (20) Grid Substations of Assam Electricity Grid Corporation Limited (AEGCL) in Accordance with Relevant Regulations, Standards, and Statutory Requirements.”**

**1.1.** Bidders shall be required to bid for the complete Package and no part offer shall be accepted.

**1.2.** The brief description of scope of Works covered under this Bidding Document is furnished below:

- I. Detailed Audit of the Protection System of AEGCL as per CERC [Indian Electricity Grid Code – IEGC 2023, Chapter 4 (Protection Code), Clause 15 (Protection Audit Plan), Sub-Clause (2) and Sub-Clause (4)]
- II. The audit process shall also check the compliance of the “Protection System” with the latest regulations of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines)
- III. The Protection Audit Format/Document to be used during the auditing process should be in line with the audit formats maintained by North Eastern Regional Power Committee (NERPC), internal audit formats maintained by AEGCL and shall be finalized for audit after verification by AEGCL and NERPC.
- IV. The following points (in addition to and already comprising in the sub-clauses (I-II) are to be addressed during the auditing process:
  - a) The audit team shall analyze the relay settings at all feeders (lines, transformers, reactors, capacitor banks etc.) with respect to field data, standard protection philosophy, and Protection philosophy set by the Regional Power Committee/CEA. The recommended settings/logic upgrade (if any) shall be submitted along with the final Audit report.
  - b) The audit team shall carry out a comprehensive technical audit of the existing SCADA system, Gateway/RTU (telemetry system) installed at the substation. The scope shall include, but not be limited to the following:
    - Assessment of System Age & lifecycle
    - Obsolescence and OEM support status
    - Cybersecurity and compliance evaluation
    - Performance and functional Adequacy
    - Scalability and Integration Capability
    - Audit Findings and Recommendations
  - c) The audit team shall ensure proper configuration and healthiness of the Disturbance Recorder PC (DRPC). This includes verification of disturbance recordings (DR) triggering criteria, correct configuration of all required analog and digital channels as per applicable standards set by NERPC, and ensuring a healthy LAN/ethernet network for seamless communication.
  - d) The Audit team shall audit all renewable energy (solar) generation injection points integrated at 220kV, 132kV and 33kV levels at AEGCL substations.



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- e) The Audit team shall systematically document the number of tripping of all feeders (400kV to 33kV) level at AEGCL. The damage of equipment during the faults (if recorded any) shall be taken into account and recommendation shall be submitted. The details of equipment damage incident (if recorded any) shall be provided by AEGCL to the audit team.
- f) The Audit team shall be checked for healthiness and its compliance with the technical standards as per Govt. approved documents (by CEA) for the below mention points:
- Carrier Communication based Protection system and Auxiliaries
  - GPS/Time Synchronization System
  - Substation LAN/Ethernet network
  - Backup power source for SCADA system
  - Auxiliary DC system (DCDB, Battery Chargers, Battery Banks)
  - Auxiliary AC system (ACDB, Diesel Generators, 33kV/415V Station Auxiliary Transformer)
  - Cooling System in the substation (Control Room, Kiosks, Battery Bank room etc.)
  - Instrument Transformers
  - Switchgear Equipment (Breakers, Disconnectors etc.)
  - Power Transformers
  - Fire Fighting System, Cooling System and overall condition monitoring system of the power transformers
  - Reactors and Capacitor Banks
  - Surge/Lightening Arresters
  - Substation and Equipment Earthing
  - Availability and Maintenance of Spares in the substation
  - Availability of redundancy schemes at the substation
  - Routine maintenance Procedures and periodic condition monitoring tests for various equipment in the substation
- g) The Audit team has verified the effectiveness, healthiness, and monitoring of the System Protection Schemes (SPS), Under Frequency Schemes and Islanding schemes (if available)
- V. The Annexure-I document from defined in the [Indian Electricity Grid Code – IEGC 2023, Chapter 4 (Protection Code), Clause 15 (Protection Audit Plan), Sub-Clause (4)] must be referred by the Audit team while preparing the final Audit report.
- VI. The final audit report shall also consider the recommendations raised in the last Audit reports (2021-2022). The work progress against the recommendations as per the last audit reports, any major non-conformity/deficiency observed is to be included in the final audit report.
- VII. The final audit report shall include all the findings and recommendations in details. The recommendations in addition to shall also state the findings as – healthy, unhealthy, absent, old and obsolete, upgradation required, maintenance/repair/retrofitting works required, maintenance procedure to be upgraded etc. along with the reason behind the findings.
- VIII. The final audit reports (in compliance with IEGC 2023) shall be submitted to AEGCL, NERLDC and NERPC.
- IX. The Auditing Agency shall assume full responsibility for the execution of the entire scope of work. All requirements, including but not limited to raw materials, lodging, and transportation necessary for carrying out the audit process, shall be arranged by the Auditing Agency.



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- X. The Auditing Agency shall make its own arrangements, at its own cost and responsibility, for travel, boarding, lodging, transportation, manpower deployment, and all other logistics required for carrying out the audit at all Twenty (20) Grid Substation locations, complete in all respects and in accordance with the Scope of Work and provisions of the Bid Documents. No separate or additional payment on this account shall be borne or payable by AEGCL.
- XI. The Auditing Agency shall make its own arrangements, at its own cost and responsibility, for all tools, software, testing equipment, instruments, consumables, and any other resources required for proper execution of the work, complete in all respects and in accordance with the provisions of the Bid Documents. No separate or additional payment on this account shall be borne or payable by AEGCL.
- 1.3 Estimated Cost: **Rs. 1,00,77,200.00 inclusive of all taxes.**
- 1.4 This Bid Identification Nos. as follows:

**AEGCL/MD/Tech-6/BD/Port. Audit/2026/BID Dated: 12.05.2026**

Bidders may obtain further information from the office of the Chief General Manager (O&M), CAR AEGCL, Ground Floor, Bijulee Bhawan, Paltanbazar, Guwahati-1, Assam [Fax: 3612739513 and Phone: 361 2739520], E-mail: [gm.mpr@aegcl.co.in](mailto:gm.mpr@aegcl.co.in) (Subject: "Third Party Protection Audit in twenty (20) nos. Grid substations of AEGCL as per relevant regulations & norms" under Deposit Scheme); Web: [www.aegcl.co.in](http://www.aegcl.co.in)].

[To gain time for preparation of their Bids, intending bidders may also inspect or download the Bidding Document by visiting the website, [www.aegcl.co.in](http://www.aegcl.co.in) or <https://assamtenders.gov.in>. However, for participation in bidding procedure, a bidder must compulsorily pay the tender fee. The bidders should also note that only the bidders who have submitted tender fee will be invited for participation in pre-bid meeting, if any.]

- 2 Though, viewing & downloading of the bid document is free of cost, for participation in bidding procedure bidder has to pay a non – refundable tender fee of **INR 1000.00** only in online mode in the Assam e-tender portal- <https://assamtenders.gov.in>.
- 3 For E-tendering, a 'Single Stage Two-Envelope' bidding procedure will be adopted comprising of (1) Techno-commercial bid and (2) Price bid. Both the bids must be submitted online through e-tendering portal <https://assamtenders.gov.in>. However, the bidder must submit hard copies of the documents along with the techno-commercial bid as specified in point no. 5.4. Technical proposals which are submitted by non-qualified bidders or which are not substantially responsive to the requirements of the Bidding Document shall be rejected. The price proposals of only those Bidders, whose technical proposals are found responsive to the requirements of the Bidding Document, shall be opened on a future date which shall be notified in due course of time.
- 4 **Qualification of the Bidder**
- 4.1 To be qualified for award of Contract, bidders must compulsorily meet each of the criteria in the area of experience, financial position etc. as described in Appendix to ITB-2, Section-1 of the Bidding Document.
- 4.2 The interested Bidders are advised to visit the office of the Managing Director or the web site mentioned above to know these criteria.
- 5 **Submission of Bids**
- 5.1 All bids must be submitted in accordance with the instructions to the Bidders on or before **12:00 Hours on 08.06.2026** and the technical proposals will be opened in the portal after **14:00 Hours of 09.06.2026**.



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- 5.2 All bids must be accompanied by the tender fee of **INR 1,000.00**. A bid security amounting to INR **2,02,000.00/-** in the form of Bank Guarantee or via online mode in the Assam e-tender portal- <https://assamtenders.gov.in> . Bid security shall have to be valid for **30 days beyond the validity of Bid**.
- 5.3 Scanned copy of the bid security BG in PDF format must be uploaded as part of techno-commercial bid. However, the bid security BG payment in original shall have to be submitted to the office of the Managing Director, prior to schedule time of bid opening.
- 5.4 **The bidder should submit the hard copies of the following documents in a separate physical envelope prior to bid submission deadline. Techno-commercial bids shall not be opened if these documents aren't submitted in hard copy before the bid submission deadline and the bid may be rejected.**
- Letter of Technical Bid;**
  - Written confirmation of authorization to commit the Bidder (i.e., Notarized Power of Attorney)**
  - Bid Security, if not paid via online mode in assam e-tender portal- <https://assamtenders.gov.in>**
  - Notarized/Registered JV agreement, if applicable.**
- 5.5 AEGCL will not be responsible for any costs or expenses incurred on the preparation or delivery of the Bids.
- 6 Clarification Regarding Technical bid:**
- 6.1 To assist in the examination, evaluation, and comparison of the Technical and Price Bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for clarification of its bid or to resubmit any shortfall documents. However, the following may be noted in this regard.
- 6.2 Any clarification submitted by a Bidder that is not in response to a request by the Purchaser shall not be considered.
- 6.3 All clarifications or shortfall documents shall be submitted through the e-tendering portal only. No other means of communication shall be considered unless specified by the bidder.
- 7 Opening of Bids**
- 7.1 AEGCL reserves the right to cancel/withdraw the invitation for Bids without assigning any reason & shall bear no liability whatsoever consequent upon such a decision.
- 7.2 Only those bidders whose Technical Bid is found substantially responsive and acceptable to the requirements of the Bidding Documents shall be considered for opening of Price Bid (price proposal). The date and time of opening of Price Bid shall be communicated to those bidders whose bids are qualified for opening.
- 8 SPECIAL NOTE TO BIDDERS:**
- 8.1 Bidder must create user ID in the web portal <https://assamtenders.gov.in> in order to participate in the e-tender.
- 8.2 A Bidder will be required to Encrypt and Sign online bid using their own Digital Signature Certificate (Class-II or higher with both Signing and Encryption Certificates). Prospective Bidders must procure DSC before participating in the tenders or in order to login into the portal <https://assamtenders.gov.in>.
- 8.3 A Bidder must download the Bidding Documents from the mentioned portal and both Technical & Price bid must be submitted through **online mode** along with all scanned copy supporting documents (suggested scan at 150 dpi in PDF with a file size up to 10MB). The documents should be duly signed,



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- scanned and **uploaded with meaningful name**. However, AEGCL may ask bidder to submit hard copies of GTP, Drawing, Manufacturer authorization of the major items and any other documents if deemed necessary.
- 8.4 A Bidder will be required to pay a Non-Refundable Service Fee (Online only) in order to participate in the bidding process.
  - 8.5 Service provider/AEGCL will not be responsible for misplacement/delay in receipt of either request for e-bidding OR instrument copy sent by post.
  - 8.6 Bidder can Re-work/Edit their bids before closing date of the tender. Bidders are advised to submit/re-work their bids well advance in time to avoid any last minute unforeseen hassle.
  - 8.7 For other information regarding bid submission, bidders may refer to the Assam Government e-procurement portal <https://assamtenders.gov.in>.
  - 9 **All the corrigendum/addendum will only be published on <https://assamtenders.gov.in> and [www.aegcl.co.in](http://www.aegcl.co.in) . Bidders are advised to regularly visit the sites for any updates.**
  - 10 AEGCL is not bound to accept the offer of lowest bidder. The undersigned reserves the right to accept or reject any or all the bids without assigning any reason thereof.

**Sd/-**  
**Chief General Manager (O&M), CAR**  
Assam Electricity Grid Corporation Limited