

Assam Electronics Development Corporation Ltd. (AMTRON)
Industrial Estate, Bamunimaidan, Guwahati - 781021
NOTICE INVITING TENDER ENQUIRY

Ref No. AEDC/SDC/2025-26/11

Dated- 26/09/2025

Assam Electronics Development Corporation Ltd (AMTRON) invites bids from bidders for **“Provisioning of Power Upgrade at Existing Racks”** having technical specification as detailed below in relevant section. Submission of bids shall be online and to be submitted through <https://assamtenders.gov.in>

1.1.1 SCHEDULE OF TENDER

Tender No.	AEDC/SDC/2025-26/11
Scope of Work	Supply, installation & commissioning of items specified in this tender with 5 (five) years support.
Name of the tender issuer	Assam Electronics Development Corporation Ltd.
Date of issue of tender document	26/09/2025
Last Date of Submission of Pre-Bid queries and site survey	03/10/2025
Last Date for Submission of Bids	Signed copy of the Tender and supporting documents to be submitted online on or before 03:30PM, 10/10/2025. Hard copy of only Power of Attorney to be submitted in the Drop Box available at MD Office, AMTRON by 03:30PM, 10/10/2025.
Date of Opening of Technical Bids	10/10/2025 at 04:30 PM.
Place of Submission & Opening of Bids	Conference room, MD Office, AMTRON
Address for Communication	Managing Director Assam Electronics Dev. Corporation Ltd., Industrial Estate, Bamunimaidan, Guwahati – 781021, Assam
Phone No. for Communication	+91-9864917608
e- mail ids	mdc@amtron.in

1.1.2. Tender Processing Fee:

A non-refundable fee of **Rs 5000/- (Rupees Five Thousand)** shall be made towards the cost of tender processing fee through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on <https://assamtenders.gov.in> or NEFT/RTGS in case of offline payment from any Bank.

1.1.3 Bid Security/Earnest Money Deposit

The bid document must be accompanied by the Earnest Money Deposit of **Rs. 50,000.00 (Rupees Fifty Thousand Only)** through –

- i) Option 1- Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on <https://assamtenders.gov.in>
- ii) Option 2- In case of non-availability of Net Banking facility, Bidders may submit Tender Processing Fees and Bid Security using NEFT/RTGS option from any Bank against system generated prefilled challan. For details, please refer to -
<https://assamtenders.gov.in/nicgep/app?page=WebAnnouncements&service=page>
(OM Related to Online Tender Processing Fees and EMD)

PART I - TECHNICAL BID

1.2 Pre-Qualification Criteria:

SL. No.	Bidder/OEM Pre-Qualification Criteria	Supporting Documents	Checklist (Yes)
1	The Bidder can be a Company/Firm having its registered Office in India and Service Engineer posted in Assam.	Certificate of Incorporation/Trade License to be provided. Biodata of Service Engineer to be provided with Phone number and email-ID.	
2	GST Registration and PAN Card to be furnished.	Relevant document to be submitted	
3	Bid Security/EMD and Tender Processing Fee (no exemption allowed)	Reference to be submitted in Form D	
4	Power of Attorney to the authorized signatory of the bidder to sign the bid document, if it is a company/Partnership Firm.	As per format mentioned in Form I. (Hard Copy should be submitted)	
5	Profile of Company	As per format mentioned in Form C.	
6	Bidder should not be blacklisted by any Government/PSU entity in last three years.	Undertaking from Bidder need to be provided.	
7	Bidder should have experience in supply and installation of similar electrical works in last three years in PSU/Govt/Data Centers (experience as Sub-Contractor will be considered)	Relevant Work Order and completion certificate to be submitted.	
8	Bidder should provide an undertaking that the scope of work will be completed within 30 (thirty) days of issue of Work Order.	Undertaking from Bidder to be submitted without which bid will be rejected.	
9	Declaration regarding acceptance of Terms & Condition contained in the tender document.	As per format mentioned in Performa B	
10	Bidder to provide complete escalation matrix for after sales warranty and services.	Escalation Matrix in Bidder letterhead to be submitted.	
11	The bidder should submit an undertaking that during the bid validity period of 180 days, the bidder will be able to supply up to an additional 50% of the existing tender quantity/capacity with the same terms & conditions of this tender including Performance Bank Guarantee. In case of failure to execute this clause the original PBG may be forfeited, and necessary action will be taken against the selected bidder.	Bidder's Undertaking	
12	Restrictions rules imposed by Govt. of India for procurement from bidders from countries that share land borders with India will be applicable.	Undertaking in support of the same.	
13	The Bill of Material mentioned in Clause 1.3.1 is tentative. The proposed solution should complete in all respect and for any additional items/works bidder should.	Undertaking to be submitted.	
14	All materials should be supplied with 5 (five) years advanced hardware replacement warranty and onsite support.	Undertaking to be submitted	
15	Unpriced, complete and correct Bill of Material including part codes of components, sub-components, service, warranty, licenses, subscription along with quantities to be submitted along with the bid, without which Bid will be	Undertaking to be submitted for the proposed bill of materials.	

SL. No.	Bidder/OEM Pre-Qualification Criteria	Supporting Documents	Checklist (Yes)
	rejected. No clarification/correction will be sought post submission of bid.		

1.3 Scope of work:

The bidder shall supply, install, integrate, test, and commission:

1.3.1. Design assumptions

- i) Utility: 415 V, 50 Hz, TN-S system.
- ii) Redundancy: 2N distribution (A and B paths). Each path can carry full IT load.
- iii) 16 Racks: 2 x 1-phase PDUs (A & B), 7.5 kW max/rack
- iv) 4 racks: 2x 3-phase PDUs (A & B), 20 kW max/rack.
- v) Electrical provision for 3 nos. of In-Row Cooling Units (PAC): 30TR each
- vi) Power factor ≥ 0.95 ; diversity = 1.0 for white-space feeders.
- vii) Standards (as applicable): IS 732 (wiring), IS 3043 (earthing), IEC/IS 60947 (switchgear), IEC 61439 (panels), IS 7098 (XLPE cables), IEC 61643 (SPDs), IEEE 1100 (bonding best practices).

1.3.2. One-line architecture (tentative)

- i) PCC / UPS-A (2N) → UPS-A Output Board → Row Busway-A → Rack PDU-A (3-phase)
- ii) PCC / UPS-B (2N) → UPS-B Output Board → Row Busway-B → Rack PDU-B (3-phase)

1.3.3. Rack-level power

- i) Per rack:
 - a. A-path: 1x 32 A 1-phase feed → 1x 1-phase rack PDU (metered/monitored).
 - b. B-path: same as A.
 - c. Repeat (a) & (b) above for 3 phase rack PDUs
- ii) PDUs: 230 V 1-phase input, 50 Hz, IEC-C13/C19

1.3.4. Earthing & bonding

- i) Dedicated equipment earthing grid (earth ring) around white space: earth resistance $\leq 1 \Omega$.
- ii) Two separate earth conductors per rack (redundant paths) from the earth bar: to rack frame and to each PDU PE.
- iii) Bond all metallic paths (cable trays, busway housing, ladder racks, containment) to the equipotential bonding bar.
- iv) Insulate earth bar; test & document continuity.

1.3.5. Compliance checklist (execution)

- i) Site Survey to be conducted till bid submission date with prior approval over email to mdc@amtron.in
- ii) Drawings: SLDs for A & B, GA of panels/busways, earthing layout, cable routing.
- iii) Factory tests: Routine tests per IEC 61439 (panels) and busway type-test certificates wherever applicable.
- iv) Site tests: IR, continuity, hi-pot (where applicable), earth resistance, functional trip tests, phase rotation, load test per path.
- v) Labelling per IS/IEC; as-built documentation & O&M manuals.

1.3.6. Testing & Commissioning

1.3.7. Training, Documentation and Handover for administrative and operational teams.

1.3.8. Warranty & Support for the specified period of 5 years.

1.3.9. Indicative Bill of Material:

Sl. No	Description	Unit	Qty
1	Supply and installation of 32A 3 pin 230V Industrial socket with enclosure and fixing bracket for 7.5 KW 1 Phase	nos	40
2	Supply and installation of 63A 5 Pin Industrial socket with enclosure and fixing bracket for 22 KW 3 phase	Nos	8
3	Supply, Laying and connection of 5 core/5 Run 16 sq. mm Copper flexible FRLS cable for 4 racks 3 phase IPDU	Mtrs	160
4	Supply and laying and connection of 3 core x 10 sq. mm copper flexible FRLS cable for 1 phase 7.5 KW IPDU	Mtrs	800
5	Supply, Laying and connection of 4 core or 4 Run 95 sq. mm Copper flexible FRLS cable	Mtrs	100
6	Supply and Installation of 12 Way VTPN DB MCCB Incomer (Replacement of existing Rack Power DB) 250A 4 Pole 36KA MCCB Outgoing: 32A SP MCB - 20 nos. 40A TP MCB 4 Nos	Nos	2
7	PAC Related Jobs (3 Nos New PAC 30TR to installed in future) 100A 4 Pole ATS with enclosure	Nos	3
8	4 core or 4 Run x 35 sq. mm Copper Flexible FRLS cable for New PAC PAC DB to ATS 2 nos. cable and ATS to new PAC 1 no cable (2 set)	Mtrs	120
9	New 40A MCB 3 pole to be installed in existing PAC DBs	nos	6
10	Supply and Installation of 1 No 250A MCCB at UPS Output Panel 2) with connections	nos	2
11	Supply., laying and connection of 4 Core or 4 run 120 sq. mm copper flexible FRLS cable	Mtrs	24
12	Termination of different cable	LS	1
13	Supply and laying of 100 x 50 mm PVC DLP trunking	Mtrs	24
14	Supply and laying of 300 mm x 50 mm G.I Perforated cable tray	Mtrs	60
15	Intelligent PDU (mount - 1U/2U Rack Mount)	Nos.	24
16	Additional Items (if any required to complete the task)	lot	1
17	Implementation Cost	job	1
18	Support services for 5 years	job	1

Sd/-

Date: **26-09-2025**
Guwahati

Managing Director
AEDC Ltd. (AMTRON)

For further details and Tender Documents visit <https://assamtenders.gov.in>