

Assam Electronics Development Corporation Limited
(A Government of Assam Undertaking)

EOI (Expression of Interest)
for

Design & Development of GIS and AI-based Mobile Application and Web Dashboard for Pothole Repairing and Maintenance of Roads.

EOI No: AEDC/IT/PWD/2025/I

Dtd: 02/06/2025

AMTRON invites EOI (Technical Proposal) from eligible empanelled bidders for the aforementioned services as per brief scope of work mentioned hereinafter.

Brief Scope of Work: Software Services for design and development of GIS and AI-based Mobile Application and Web Dashboard for Pothole Repairing and Maintenance of Roads.

Brief Description of EOI:

Detailed Specification, Scope of work are given in the bidding documents which are available for examination at the address given below as per the following schedule.

EOI No:	AEDC/IT/ PWD/ 2025/I
Bid Submission Start Date	02/06/2025 01.30 PM
Bid Submission End Date	30/06/2025 01.00 PM

(Jyoti Prasad)

DGM & Chairman, Tender Committee



Copy to:

1. Notice Board for circulation.
2. Office Copy
3. www.amtron.in portal – for wide publication

Expression of Interest (EOI)

Qualifying Requirements for Bidders

The following documents must be submitted along with the bid document

- i. The Agency should be a registered entity with minimum 3 years of existence on the day of the submission of the bid, with work done in the related services as laid down in the EOI. Certificate of Incorporation under Companies Act 1956/2013, and other applicable Acts (Proprietorship/Partnership Firm / Company) are to be submitted.
- ii. PAN Card
- iii. GST Registration
- iv. The Agency must have successfully operated and maintained similar services in India or Abroad. List of work orders/completion certificate/agreement are to be attached.
- v. The bidder should have an office in the state of Assam. Trade License to be submitted
- vi. The firm shall have an Empanelled Vendor Registration Code under AEDC Ltd.
- vii. Submit Annexure-I.

Brief Scope of Work:

The undersigned want's the following services from an experienced agency/firm/institution but not limited to the following

Scope of Work

1. Citizen Mobile Application Development
 - Build Android & iOS apps for pothole reporting.
 - Integrate AI-based pothole detection and size/depth estimation.
 - Enable GPS capture and GIS boundary validation for jurisdiction checks.
 - Provide real-time submission, tracking, and feedback features.
2. PWD Official Mobile Application
 - Develop role-based mobile app for JE, AE, AEE, EE, and SE.
 - Implement task lists, Google Maps navigation, and field verification tools.
 - Enable workflow updates (Verified/In Progress/Repaired/Reassigned).
 - Provide interfaces for photo evidence, remarks, and measurement entries.
3. Centralized Web Dashboard (Admin Portal)
 - Create role-based dashboard for senior officials (CE, Commissioner, SE, EE, AEE).
 - Enable division/district-level monitoring and analytics.
 - Include daily progress charts, backlog reports, and officer performance metrics.
 - Support task reassignment and jurisdiction transfers.



- Track material usage per pothole.
4. AI & GIS Integration
- Train and deploy AI/deep-learning models for pothole identification.
 - Estimate pothole dimensions through image analysis.
 - Integrate GIS KML boundary layers to validate jurisdiction.
 - Auto-reject invalid or out-of-jurisdiction reports.
5. Notification & Feedback System
- Configure push notifications for citizens and officers.
 - Enable assignment alerts, task updates, and verification reminders.
 - Integrate SMS/Email support (optional).
 - Capture citizen satisfaction after task closure.
6. Hosting, Security & Compliance
- Deploy on secure cloud infrastructure with HTTPS.
 - Implement daily backups, access control, and end-to-end encryption.
 - Maintain audit logs for all actions and updates.
 - Ensure compliance with GDPR and Indian IT Act for data protection.

Submission of Technical Proposal:

A hard copy of the proposal (Technical) expressing interest shall be submitted to the undersigned. For any queries, a prospective Bidder requiring any clarification on the tender document may submit their queries, in writing, to the undersigned.

Registered Office: Assam Electronics Development Corporation Limited
Industrial Estate, Bamuinimadam, Guwahati-781021
Email id : md@amtron.in , gautam.das@amtron.in

Demonstration:

A technical presentation has been scheduled for 3:00 PM, i.e, 04/07/2025.
Venue: IT Conference room, AEDC Ltd

As part of the evaluation, you are requested to present the following:

- Concept plan for the proposed work.
- Understanding of the requirements.
- Proposed technical solution.

Additionally, bidders may be asked to demonstrate a working prototype or Proof of Concept (PoC) relevant to the aforementioned.



GENERAL TERMS AND CONDITIONS

Upon the declaration of an intending vendor in final RFP to be the Successful Vendor, they shall be subject to the following terms and conditions.

1. The successful vendor shall not assign the sub -contract. In case of breach of these conditions, the AMTRON may serve a notice in writing on the Contractor rescinding the contract.
2. The successful Vendor shall provide the services strictly in accordance with scope of work, technical specifications and as per detailed instructions..

Sd/-

(Jyoti Prasad)

DGM & Chairman- Tender Committee



**Cover letter
(Annexure-I)**

Date:

To,

The Managing Director,
Assam Electronics Development Corporation Ltd.,
Bamunimaidam, Guwahati, Assam

Subject:

**Expression of Interest (EOI) for GIS and AI-based Mobile Application and Web Dashboard
for Pothole Repairing and Maintenance of Roads**

Reference:

Dear Sir,

With respect to your above mentioned EOI, we hereby submit our EOI document in the required format along with the company profile and supporting documents.

Should this EOI be accepted, I/We hereby agree to abide by and fulfill the terms and provisions of the said Conditions of Contract.

Should we fail to execute the contract when called upon to do so we would forfeit any amount deposited by us to Assam Electronics Development Corporation Ltd.

We have carefully gone through the terms and conditions prescribed, and we accept the same without any alterations/modifications.

Yours faithfully,

Signature

Name & seal of Firm

