



ASSAM ELECTRICITY GRID CORPORATION LIMITED

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

CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3

Web: www.aegcl.co.in



No: AEGCL/MD/Tech-409/O&M(LAR)/Drone Survey/AIIMS/2026/5

Date: 19.08.2026

REQUEST FOR PROPOSAL(RFP)

For & on behalf of the Managing Director, AEGCL, the Chief General Manager (O&M) LAR invites sealed proposal from reputed firms for Hiring of Services for Drone-Based Monitoring and Patrolling of 132KV EHV Transmission Lines Supplying Power to 132KV AIIMS GSS And AI Enabled Analysis

1. Basic Details:

Name of work:	Hiring of Services for Drone-Based Monitoring and Patrolling of 132KV EHV Transmission Lines Supplying Power to 132KV AIIMS GSS And AI Enabled Analysis
Inviting Authority:	Chief General Manager (O&M) LAR, AEGCL
Address:	AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati, Assam-781001
Estimated Amount	₹ 15,88,988.00/-
Completion Schedule	Completion of the work shall be within 2 (Two) months from the date of issue of Work Order
Email:	cgmom.lar@aegcl.co.in
Mode of Submission	Sealed Proposal (Hard Copy Only)
RFP ID	AEGCL/MD/Tech-409/O&M(LAR)/Drone Survey/AIIMS/RFP

2. RFP Schedule

The following tentative schedule shall be applicable to this RFP. AEGCL reserves the right to modify any of the dates mentioned below by issuing a corrigendum.

Sl. No.	Activity	Date & Time
1	Issue of RFP	19.08.2026 14:00 Hrs
3	Last Date for Submission of Queries	27.08.2026 14:00 Hrs
5	Last Date & Time for Submission of Proposal	09.09.2026 14:00 Hrs
6	Opening of Technical Proposal	10.09.2026 14:00 Hrs



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3. Proposal Validity

The proposal submitted by the bidder shall remain valid for **180 (One Hundred Eighty) days** from the last date of submission of proposals. A proposal valid for a shorter period shall be liable for rejection as non-responsive.

4. Instructions to Participants

1. The detailed **Scope of Work, Eligibility Criteria, Technical Specifications, Terms & Conditions, Evaluation process and other provisions** are enclosed in **Annexure-I**, which shall form an integral part of this RFP.
2. Interested participants may submit their queries or seek clarifications, if any, through e-mail at cgmom.lar@aeqcl.co.in on or before the date specified in the RFP Schedule.
3. Participants are advised to conduct a detailed site visit to familiarize themselves with the existing site conditions before submitting their proposals. Submission of a proposal shall be deemed to indicate that the bidder has fully acquainted itself with the scope of work and site conditions.
4. **The Technical Proposal and Commercial Proposal shall be submitted in separate sealed envelopes clearly superscribed "Technical Proposal" and "Commercial Proposal" respectively. The Price Schedule (BoQ) has been enclosed as Annexure-II. The Quoted price shall be exclusive of GST.**
5. **Both the envelopes shall be placed inside one outer sealed envelope superscribed with: "Proposal for Drone-Based Monitoring and Patrolling of 132KV EHV Transmission Lines Supplying Power to 132KV AIIMS GSS And AI Enabled Analysis, under O&M, LAR, AEGCL."**
6. The proposal shall be signed by the authorized signatory of the bidder on every page.
7. The proposal shall be submitted in a sealed envelope superscribing the name of the work and addressed to the Chief General Manager (O&M), Lower Assam Region, AEGCL. The proposal shall reach the office of the undersigned on or before the prescribed date and time.
8. **Proposals received after the stipulated date and time or submitted through e-mail, fax or any electronic mode shall be rejected and shall not be considered.**

5. Evaluation Methodology

The evaluation of proposals shall be carried out in the following stages:

Stage-I: Technical Evaluation

The Technical Proposals shall be examined based on a marking scheme (details in Annexure-I) to determine whether they are substantially responsive to the requirements of this RFP.

Only those bidders whose Technical Proposals are found to be substantially responsive shall be declared **Technically Qualified**.



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Only those bidders whose Technical Proposals are found to be substantially responsive shall be declared **Technically Qualified**.

Stage-II: Commercial Evaluation

The Commercial Proposals of only the technically qualified bidders shall be opened and evaluated. The contract shall ordinarily be awarded to the bidder quoting the **Lowest Evaluated Responsive Price (L1)**, subject to acceptance by the Competent Authority and fulfillment of all contractual requirements.

AEGCL reserves the right to seek clarifications from any bidder during the evaluation process without altering the substance of the proposal.

6. General Conditions

1. AEGCL reserves the right to accept or reject any or all proposals, wholly or partly, or to annul the RFP process at any stage without assigning any reason whatsoever, and no participant shall have any claim against AEGCL on this account.
2. AEGCL reserves the right to withdraw, amend, modify or cancel the RFP at any stage before the award of contract by issuing an appropriate corrigendum or notification.
3. The successful bidder shall execute the contract agreement and commence the services within the period stipulated in the Letter of Award (LoA).

7. Address for Submission of Proposal

The Chief General Manager (O&M), Lower Assam Region

Assam Electricity Grid Corporation Limited (AEGCL)

First Floor, Bijulee Bhawan

Paltan Bazar

Guwahati – 781001

Assam, India

Phone:

Chief General Manager (O&M) LAR
AEGCL, Bijulee Bhawan,
Paltan Bazar, Guwahati -1.



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Memo No AEGCL/MD/Tech-409/O&M(LAR)/Drone Survey/AIIMS/2026/5

Date: 19.08.2026

Copy to:

1. P.S to the Managing Director, AEGCL, Bijulee Bhawan, Guwahati for kind information to the MD
2. The GM, LAZ, AEGCL, Narengi, Guwahati-26 for information.
3. The GM (P&D), AEGCL, Guwahati-01 for information.
4. The DGM, Lower Assam, T&T Circle, AEGCL, Narengi for information.
5. The AGM, Kahilipara Division, AEGCL, Kahilipara for information.

Chief General Manager (O&M) LAR
AEGCL, Bijulee Bhawan,
Paltan Bazar, Guwahati -1.

ANNEXURE-I

INVITING PROPOSAL FOR THE WORK OF HIRING OF SERVICES FOR DRONE-BASED MONITORING AND PATROLLING OF 132KV EHV TRANSMISSION LINES

BACKGROUND:

The 132kV AIIMS Grid Substation is a strategically important Grid Substation catering to the power supply requirements of AIIMS, Guwahati and the adjoining areas. The primary source of power to 132kV AIIMS GSS is the 132kV Kahilipara GSS through the interconnected transmission network, with an alternate source available from 220kV Amingaon GIS. The existing 132kV transmission line corridor associated with the power supply to AIIMS GSS, particularly the line section originating from 132kV Kahilipara GSS, is old and includes the critical Brahmaputra River crossing. Considering the age of the transmission assets, the challenging terrain at the river crossing, and the importance of maintaining uninterrupted power supply to 132KV AIIMS GSS, it is considered necessary to undertake a comprehensive condition assessment of the transmission line corridor.

1. SCOPE OF WORK:

The scope of work involves drone-based visual (RGB), thermal, and LiDAR patrolling to identify structural, thermal, and clearance-related defects on the designated lines.

A. General Requirements

- **Logistics & Vehicles:** The successful bidder is responsible for arranging their own ground vehicles, conducting reconnaissance (Recce), and obtaining local clearances.
- **Data Ownership:** All acquired data is the exclusive property of AEGCL. The contractor is strictly prohibited from sharing, using, or publishing this data on any platform (including social media).
- **Raw Data Delivery:** Immediately after completing each flight, the raw data must be delivered to the AEGCL site representative on a portable hard drive, which will be retained by AEGCL.
- **Standby Equipment:** The contractor must maintain at least **1 standby drone** of identical specifications in Ready-to-Fly (RTF) condition to prevent delays in case of equipment failure.
- **EMF Resilience:** All deployed drones must be fully compliant and capable of operating safely within high Electromagnetic Field (EMF) environments.
- **Data Tagging:** All captured photos and videos must be timestamped, geotagged, and submitted alongside the corresponding flight path file in **.gpx format**.

B. Visual Inspection (RGB Patrolling)

The primary objective of RGB patrolling is to identify physical and structural defects on towers, hardware, and nearby Right of Way (ROW).

Photo Capture Requirements per Tower

The drone must capture clear, close-up photographs of various tower components. The minimum number of photographs required per tower type is specified below:

S.N.	Main Component	Sub-Components to Check
1	Insulators & Jumpers	CC ring, grading ring, insulator surface, arcing horns, hardware cotter pins, vibration dampers, jumper pads, jumper bolts, rigid spacers, jumper drop, dead end, etc.
2	Earth Peaks	Copper bonds, nut-bolts, structural members, vibration dampers, etc.
3	Cross Arms	Bird guards, nut-bolts, structural members, foreign material, etc.
4	Main Tower Body (Above Cross-Arm)	Nut-bolts, structural members, foreign materials, etc.
5	Tower Legs	Foundations, concrete coping, earthing, joint plates, counterpoise earthing, bolts, etc.
6	Main Tower Body (Below Cross-Arm)	Nut-bolts, structural members, foreign materials, etc.

Additionally, for **Forward Span Patrolling**, the drone must capture images of the conductor, earth wire, or OPGW to check for damage or joint box defects every **150 meters** (requiring approximately 16 photos per span).

Defects to Identify during RGB Patrolling

1. Missing, damaged, bent, or hanging structural tower members; missing bolts and loose bird guards.
2. Damage to concrete foundations, chimneys, coping, or revetments.
3. Broken insulators, heavily polluted insulator discs, or visible flashover marks.
4. Stranded or damaged conductors and earth wires.
5. Displaced, missing, or wrongly oriented hardware, including vibration dampers, grading rings, corona rings, spacer-dampers, and missing copper bonds.
6. Foreign objects on lines (e.g., bird nests, trash, kite strings) and unauthorized construction in the ROW.
7. Loose or missing jumper bolts.
8. Environmental hazards near foundations (e.g., flooding, land-sliding, mining, waterlogging, or excessive soil erosion).
9. Defects in OPGW cable joints or junction boxes.

C. Thermal Inspection (Infrared Patrolling)

Using thermovision technology, the drone must detect thermal anomalies and hotspots under normal load conditions.

- **Target Areas:** Bolted jumper joints, mid-span compression joints, conductor repair sleeves, and dead-end compression joints.
- **Hotspot Criteria:** Any temperature difference (ΔT) greater than 10°C between phases or comparable conductors under similar loads is classified as a critical hotspot and must be reported immediately.

D. Vegetation & Clearance Inspection (LiDAR Patrolling)

LiDAR-equipped drones must be deployed to map the ground profile, vegetation, and nearby structures to measure critical electrical clearances.

Measurements to be Captured:

1. Clearance between the earth wire/OPGW and the top conductor.
2. Clearance between the bottom conductor and the ground profile, vegetation, building structures, or other objects within the ROW.
3. Accurate physical measurements of jumper drop.
4. Side clearance between conductors and lateral obstacles (e.g., trees, hillsides, buildings).
5. Clearances at critical crossings (e.g., other power lines, highways, railways, rivers, and bridges).

2. TECHNICAL SPECIFICATIONS

A. Visual & Infrared Camera Specifications

- **Digital (RGB) Camera:** Resolution of **20 Megapixels or better**, a frame rate of at least **30 fps**, and video output of **Full HD (1920 x 1080p) or better**.
- **Infrared (Thermal) Camera:**
 - Technology: 7.5 to 13 μm uncooled microbolometer Focal Plane Array (FPA).
 - Resolution: Minimum **640 x 480 pixels**.
 - Temperature Range: 0°C to 500°C.
 - Accuracy: Within $\pm 1\%$ or $\pm 1^\circ\text{C}$ (for temperatures up to 150°C) and $\pm 2\%$ or $\pm 2^\circ\text{C}$ (for temperatures above 150°C).
 - Frame Rate: **30 frames per second**.

B. LiDAR Sensor Specifications

- **Output Format:** LiDAR LAS file Version 1.2 or higher.
- **System Accuracy:** Maximum 250 mm.
- **Point Density:** Minimum 200,000 pts/s (Single Return) and up to 400,000 pts/s (Multiple Return).
- **Platform:** Fixed-wing or multi-rotor system matching the flight range criteria.

C. Flight Platform Capabilities

- **Hovering Capability:** Yes, high-precision GPS/GNSS-based hovering.
- **Operational Range:** Minimum radial distance of **4 KM**.
- **Route Programmability:** Fully programmable autonomous flight paths.

D. REPORTING DELIVERABLES

The successful bidder must compile and submit separate defect reports for each patrolling type using the following standardized formats:

1. Tower Visual Inspection Report (RGB)

- Date and time of patrolling.
- Name of the transmission line.
- Tower Location Number / Span.
- Precise GPS coordinates (Latitude & Longitude) of the tower.
- Detailed description of the observed defect(s).
- Geotagged high-resolution visual image of the defect.

2. Thermal Patrolling Report

- Date and time of patrolling.
- Ambient temperature at the time of flight.
- Name of the transmission line.
- Tower Location Number / Span.
- Precise GPS coordinates (Latitude & Longitude).
- Detailed description of the thermal hotspot, including the absolute temperature and calculated temperature difference (ΔT).
- Side-by-side visual and thermographic image of the hotspot.

3. Vegetation & Clearance Report (LiDAR)

- Date and time of patrolling.
- Name of the transmission line.
- Tower Location / Span number.
- Precise GPS coordinates (Latitude & Longitude).
- Clearance profile violations, including the measured distance versus the minimum permissible clearance limit.
- 3D Point Cloud screenshots visualizing the clearance infringement.

E. SAFETY MEASURES TO BE ADOPTED

The scheduled works involve Extra High Voltage (EHV) transmission systems. The successful bidder shall assume full responsibility for adhering to strict safety protocols:

- **Daily Program Instructions:** Clear instructions regarding the daily work schedule and the Safe Working Procedure (SWP) for each activity must be explained to all working personnel before commencing operations.
- **Daily Work Plan:** The executing agency's site in-charge must submit a daily work plan detailing exact tower locations to the AEGCL site in-charge prior to executing the flight.
- **Live Line Conditions:** The entire aerial patrolling exercise must be executed under live-line conditions. The drone and field crew must maintain the mandatory electrical clearances from live conductors at all times.

F. REGULATORY & STATUTORY COMPLIANCE

- The bidder must hold a current and valid operating permit, license, or certificate issued by the **Directorate General of Civil Aviation (DGCA)** to provide commercial drone services in India.
- All drone operations must comply with the latest DGCA rules, guidelines, Standard Operating Procedures (SOPs), and Ministry of Home Affairs (MHA) clearances.
- The bidder must provide the pilot's license, Unique Identification Number (UIN), Type Certificates, and drone insurance at the bidding stage.

G. CLOUD-BASED WEB APPLICATION PLATFORM

The bidder must own or have authorized access to a cloud-based web application platform specifically designed for drone-based inspection, data analysis and reporting. The application must integrate all required functionalities in a single unified platform.

Mandatory feature of the platform:

1. Capability to upload and manage thermal and visual images.
2. Anomaly annotation with temperature tagging
3. Generation of XLS and PDF reports through cloud-based processing
4. 2D and 3D model visualization of inspected assets
5. Tools for 3D measurement and integration of measurement utilities.

3. ELIGIBILITY AND EVALUATION PROCESS

The eligibility criteria and the scoring mechanism for evaluation of the technical proposal are as follows: -

Sr.No.	Criteria & sub-criteria		Maximum Marks
1	Bidder's Credentials	The bidder shall be a single Indian legal entity in the form of sole proprietorship, or a partnership firm set up under the Indian Partnership Act, 1932, or Pvt. Ltd/ Public Ltd. Company registered under the Indian Companies Act, 1956; or Govt. Company or Corporations, or Public Sector Undertakings, duly incorporated under relevant laws/acts in India only. Operational Experience (as on FY 2024-25): - Operational for more than 5 financial years: 5 marks - Operational for less than 5 financial years - 2.5 marks Documents Required: - Certificate of Incorporation - GST Registration Certificate - PAN Card - MSME	5
2	Quality Management System	1. Quality & Information Security Certifications – 2.5 Marks ISO 9001:2015 – Quality Management System ISO/IEC 27001:2018 – Information Security Management System Both certifications must be valid and issued by an accredited certification body. 2. Process Maturity Certifications – 2.5 Marks CMMi Level 3 or Level 5 certification (Development or Services) CMMi certification must be issued by a recognized CMMi Institute-authorized partner.	5
3	Project Experience Thermal & Visual Inspection of TL Line (mandatory criteria)	Three similar successfully completed works of 132 kV or above voltage class transmission lines, having a cumulative route length equivalent to not less than 40% of the total transmission line route length covered under the present project. - 20 Marks OR Two similar successfully completed works of 132 kV or above voltage class transmission lines, having a cumulative route length equivalent to not less than 40% of the total transmission line route length covered under the present project. - 20 Marks OR	30

		One similar successfully completed works of 132 kV or above voltage class transmission lines, having a cumulative route length equivalent to not less than 40% of the total transmission line route length covered under the present project. - 20 Marks The bidder should have successfully completed at least one similar work in any of the Northeastern States of India during the last seven (7) years ending on the last day of the month previous to the one in which applications are invited. -10 Marks Similar works mean "Work of preventive maintenance, inspection, patrolling, or condition assessment using Visual, Thermal and LiDAR through drone technology of 132 kV or above voltage transmission lines supported by work order and completion certificates issued by any Power Utility, Transmission Licensee, Central or State Government Undertaking, or Central/State Government Department."	
4	Minimum Annual Turnover (MAT) and Cash flow (Mandatory criteria)	1. Minimum Annual Turnover (MAT) - Minimum average annual turnover of Rs.25,00,000.00 calculated as total certified payments received for contracts in progress or completed, within the last 3 years. - Submission of audited balance sheets or other financial statements acceptable to the Purchaser, for the last 3 (three) years (FY 2022-23, 2023-24 and 2024-25) to demonstrate the current soundness of the Bidders financial position and its prospective long-term profitability. As a minimum, a Bidder's net worth should be positive. The bidder must submit form FIN-2 along with supporting documents. - Using Forms FIN – 3 and FIN-4 (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet the cash-flow requirement, of Rs.12,00,000.00 Documents Required: CA-certified statement of Average Annual Turnover for the specified financial years CA-certified Net Worth Certificate or audited financial statement Bank Solvency Certificate	10
5	Bidder's assets: Equipment Ownership (mandatory criteria)	The bidder must possess a minimum of Three (03) drones, each meeting the following specifications and approvals: 1. DGCA Compliance All drones must be registered with the Directorate General of Civil Aviation (DGCA) and have valid Unique Identification Numbers (UINs).	10

		2. Sensor Specifications Each of the five drones must be equipped with dual sensors (Visual & Thermal) as per the specifications below: a. Visual Camera • Minimum 20 MP resolution • Minimum 4× lossless zoom • Minimum 32× digital zoom b. Thermal Camera • Must be radiometric • Minimum resolution of 640 × 512 pixels Documents Required: • DGCA UIN Certificates for each drone • Technical datasheets/specifications of the drone models	
6	Manpower Capability Criteria	Manpower Eligibility Criteria The bidder must demonstrate adequate skilled manpower on its payroll as of the date of publication of the RFP. The claim must be substantiated through a duly notarized Affidavit submitted along with the proposal. 1. Drone Operations Personnel • The bidder must have a minimum of five (05) skilled personnel on its payroll with proven expertise in the operation of UAS/UAVs. • Evaluation: 5 Marks 2. Drone Data Analytics Personnel • The bidder must have a minimum of five (05) skilled personnel on its payroll with expertise in drone data analytics. • These personnel must hold a Diploma or Degree in Electrical and/or Electronics Engineering. • Evaluation: 5 Marks Documents Required: • Affidavit listing the names and roles of qualified personnel, duly signed and notarized	10
7	Cloud-based Application	Cloud-Based Web Platform requirement for Inspection & Reporting: The bidder must own a cloud-based web application platform specifically designed for drone-based visual and thermal inspection, data analysis, workflow, and reporting. The application must integrate all required functionalities into a single unified platform. Mandatory Features of the Platform: - Unified upload system for thermal and visual images with auto-segregation and bulk file handling. - Capture-time association of thermal imagery with environmental temperature and weather conditions for accurate thermal analysis. - Cloud-based unified interface enabling concurrent visual and thermal image analysis.	20

		d) Automated AI/ML -based anomaly detection leveraging computer vision for multi-type fault identification (minimum three to five anomaly types during the time of bid and specifically for Insulator); e) Customizable persona-based dashboards for operations & management teams. f) Role-based views tailored for operations, management, and maintenance teams, enabling workflow monitoring and project status visibility. g) Interactive dashboard enabling multi-parameter filtering and visualization of tower assets by health index and criticality level. h) Unified cloud reporting enabling detailed and summary visualizations with downloadable Excel and PDF outputs.	
8		Total Evaluation Marks	100
9		Minimum Qualifying Marks	70

4. TRANSMISSION LINE DETAILS

Sl No	Name of Transmission Line	Route Length (KM) approx.
1	132KV Kahilipara-Kamakhya-AIIMS (including Sishugram LILO)	20
2	132KV Amingaon- AIIMS	15
3	132KV Amingaon-Kamalpur-Rangia	35

5. Payment Terms:

- i) No advance/Mobilization advance shall be made in this contract.
- ii) No claim for interest shall be entertained by AEGCL.
- iii) **First and final bill shall be accepted for this work on completion of the entire work.** Bill must contain certified Photocopies of the Site Register of up-to-date work executed and colored photographs of work in sequence of execution duly signed with seal by the AEGCL.
- iv) Final payment shall be released to the contractor only after completion of the work in all respect and final acceptance by AEGCL.

Payments would be made subject to fulfilment of the following conditions -

- (i) Advance copy of invoices in duplicate with documents/ information are to be furnished sufficiently in advance.
- (ii) Any demurrage charges on account of late intimation and/or delivery of documents by the Bank is to be borne by the Bidder.
- (iii) The Bidder should intimate the dispatch of each and every consignment to the Purchaser and the Consignee.
- (iv) All Bank charges are to be borne by the Bidder.
- (v) Payment through Bank for supply of equipment/ materials, dispatched by Rail would be allowed if required, however the equipment/ materials have to reach at destination/ project site in full and good

condition and additional expenditure in any form for this is to be borne by the Bidder. A prior approval from appropriate authority of the AEGCL is to be taken in this respect.

- (vi) Payment through Bank for supply of equipment/ materials, dispatched by road transport would be allowed if required, provided that, the transport agency is approved by the Banking Association and prior approval thereof is given by the AEGCL's appropriate authority.

6. PERFORMANCE SECURITY DEPOSIT

The successful bidder shall have to deposit to the extent of **10% (Ten percent) of the Work Order value** as performance security (Bank Guarantee), within fifteen (15) days of receipt of notification of award, duly pledged in favor of the Managing Director, AEGCL and such **security deposits shall be valid up to the completion period of the work.**

- a. If the Contractor fails or neglects to observe, perform any of his obligations under the contract, it will be lawful for AEGCL to forfeit either in full or in part at his absolute discretion, the security deposit furnished by the Contractor.
- b. No interest shall be payable on such deposits.

7. QUANTITY VARIATION

AEGCL shall have the right to increase/decrease the ordered quantity by 35% within 50 days of the period of completion and the same shall be carried out at the same rates /prices and terms and conditions stipulated in the contract except in regard to completion schedule, which shall be mutually agreed upon in case of enhancement of the ordered quantity.

8. LIQUIDATED DAMAGE

- a. The Contractor guarantees that it shall attain Completion of the Works within the Time for Completion specified in the Work Order, or within such extended time to which the Contractor shall be entitled under thereof.
- b. If the Contractor fails to attain Completion of the Works within the Time for Completion or any extension thereof, the Contractor shall pay to the Purchaser liquidated damages at the rate of **1% (one percent)** of the total Contract Price per week or part thereof delay. The aggregate amount of such liquidated damages shall in no event exceed **10% (ten percent)** of the total contract price.

However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Works or from any other obligations and liabilities of the Contractor under the Contract.

- c. Once the aggregated "Liquidated damage" reaches 10% of the total contract price, AEGCL may consider following actions:
 - (a) Procure the undelivered material/ equipment and/or complete the balance works from elsewhere giving notice to the Contractor and to recover any extra expenditure incurred thereby for having to procure these materials and works at higher price, at the risk and responsibility of the Contractor; or
 - (b) Cancel the contract wholly or in part and to complete the works at the full risk and cost of the Contractor and forfeit the security deposit.
 - (c) Declare it as a "Contractual Failure" and act in accordance with **Clause 9**

9. CONTRACTUAL FAILURE

In the event of contractual failure of any respect on the part of the Contractor, AEGCL shall be entitled to operate security deposit or any deposit or any payment due to Contractor irrespective of whether his default relates to the particular orders or not towards the Purchaser's claim for damages arising out of the failure. In

addition, the Purchaser may black-list or bans the "Contractor" or pending enquiry, suspend him or take any other steps considered suitable.

10. FORCE MAJEURE

"Force Majeure" shall mean any event beyond the reasonable control of the Purchaser or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:

- (a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war
- (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts
- (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority
- (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague
- (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster
- (f) shortage of labor, materials or utilities were caused by circumstances that are themselves Force Majeure.
 - a. If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within fourteen (14) days after the occurrence of such event.
 - b. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended in accordance with clause 10

11. EXTENSION OF TIME FOR COMPLETION

The Time(s) for Completion specified in the RFP document/work order shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) any Change in the scope of works by AEGCL; which justifies extension of completion time as provided in **Clause 6**; and
- (b) any occurrence of Force Majeure as provided in **Clause 10**

Except where otherwise specifically provided in the work order, the Contractor shall submit to the Purchaser's Representative a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement

of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Purchaser and the Contractor shall agree upon the period of such extension. In the event that the Contractor does not accept the Purchaser's estimate of a fair and reasonable time extension, the Contractor shall be entitled to refer the matter to a Dispute Board, pursuant to **Clause 12**.

12. ARBITRATION

In the event of any dispute or difference between the parties hereto, such dispute or difference shall be resolved amicably by mutual consultation. If such resolution is not possible, then unresolved dispute (s) or difference shall be referred to the Arbitration of a sole arbitrator to be nominated jointly by both the parties. The Arbitration Proceedings shall be governed by the Arbitration and Conciliation Act, 1996. The language of arbitration shall be English. The place of arbitration shall be at Guwahati. The award of arbitrator shall be binding on the parties to the dispute. Cost of arbitration shall be borne equally between the parties.

All other terms and condition (as applicable) shall be as per AEGCL GENERAL CONDITIONS OF SUPPLY AND ERECTION 2009

ANNEXURE-II

PRICE SCHEDULE:

Hiring of Services for Drone-Based Monitoring and Patrolling of 132KV EHV Transmission Lines
Supplying Power to 132KV AIIMS GSS And AI Enabled Analysis

Sl No	Item Description	Quantity	Unit	Rate (##)	Amount
1	Drone based Visual and Thermal Inspection of 132KV Transmission line as per RFP specification	70	KM		
2	LIDAR Survey for Vegetation, Clearance & Sag Analytics as per RFP specification	70	KM		
3	GPS Mapping of Transmission lines as per RFP specification	70	KM		
4	Cloud-Based Data Management & AI Analysis Platform (Access Period: 1 Year) as per RFP specification	1	Nos		
TOTAL					

The quoted rate shall be exclusive of GST