NOTICE INVITING TENDER (NIT)

FOR SUPPLY, INSTALLATION & COMMISSIONING OF CIVIL ENGINEERING LABORATORY EQUIPMENT

Tender Notice No.: 507/Reg.Off/2026 **Date of Issue:** 12.03.2026

G.B. Pant Institute of Engineering & Technology (GBPIET), Pauri Garhwal, Uttarakhand, invites online bids through Uttarakhand State e-Tender Portal from reputed Original Equipment Manufacturers (OEM) / Authorized Dealers for **Supply, Installation, Commissioning, and Training of Civil Engineering Laboratory Equipment** as per detailed technical specifications provided in this tender document.

KEY TENDER INFORMATION

Parameter	Details
Tender Notice No.	469/Reg.Off/2026
Estimated Cost	₹1,50,00,000/- (Rupees One Crore Fifty lakh only)
Earnest Money Deposit (EMD)	₹ 3,00,000/- (Rupees Three Lakhs Only) - 2% of Estimated Cost
Tender Fee (Non-refundable)	₹ 5900/- (Including GST)
Performance Security	5% of Purchase Order Value
Warranty Period	Minimum 3 Years Comprehensive On-Site Warranty
Bid Validity	180 Days from the date of opening of Technical Bid
Number of Covers	Two (Technical Bid + Financial Bid)
Mode of Tendering	Online through Uttarakhand State e-Tender Portal

IMPORTANT DATES

Sr. No.	Activity	Date	Time
1	Tender Publication Date	12.03.2026	—
2	Bid Submission Start Date	14.03.2026	10:00 AM
5	Bid Submission End Date	30.03.2026	12:00 PM
6	Technical Bid Opening Date	30.03.2026	03:30 PM
7	Financial Bid Opening Date	Will be intimated to technically qualified bidders through e-tender portal	—

TENDER DOCUMENTS AVAILABILITY

- **Online:** https://uktenders.gov.in
- **Institute Website:** www.gbpiet.ac.in

All corrigendum/addendum (if any) related to this tender will be published only on the above portals.

PAYMENT OF TENDER FEE & EMD
Director GBPIET, Pauri, Uttarakhand
SUBMISSION OF DOCUMENTS

Online Submission: All documents must be uploaded on https://uktenders.gov.in as per the prescribed format.

Physical Submission: Hard copies of the following documents in spiral binding must be submitted in a sealed envelope to:

The Registrar

G.B. Pant Institute of Engineering & Technology

Ghurdauri, Pauri Garhwal – 246194

Uttarakhand, India

CONTACT INFORMATION

For Technical Queries:

Dr. B.S Khati, Head of Department

Department of Civil Engineering

Email: bhishmkhati007@gmail.com

Phone: +91-9458381318

For Commercial/Tender Process Queries:

The Registrar

Email: registrar@gbpiet.ac.in

Phone: +91-9719624248

SPECIAL CONDITIONS

1. The Institute reserves the right to accept or reject any or all bids without assigning any reason thereof.
2. The Institute reserves the right to increase or decrease the quantity of any item(s) or cancel any item(s) from the tender.
3. Conditional bids will be summarily rejected.
4. Canvassing in any form will lead to disqualification of the bidder.
5. The decision of the Director, GBPIET shall be final and binding in all matters related to this tender.

Issued By:

THE DIRECTOR

G.B. Pant Institute of Engineering & Technology

Ghurdauri, Pauri Garhwal – 246194

Uttarakhand, India

TENDER DOCUMENT

FOR SUPPLY, INSTALLATION & COMMISSIONING OF CIVIL ENGINEERING LABORATORY EQUIPMENT

SECTION 1: INSTRUCTIONS TO BIDDERS

1.1 General Instructions

1.1.1 The tender shall be submitted in **Two-Bid System**:

- **Part-I:** Technical Bid (with all supporting documents)
- **Part-II:** Financial Bid (Bill of Quantity - BOQ format only)

1.1.2 **No offline bids** will be accepted. All documents must be uploaded online in PDF format on https://uktenders.gov.in.

1.1.3 Bidders are **strongly encouraged to visit** the GBPIET campus and inspect the Civil Engineering Department laboratories to understand the site conditions, space availability, and infrastructure before submitting their bid.

1.1.4 All pages of the tender document must be signed and stamped by the authorized signatory of the bidding firm.

1.1.5 Any corrections/alterations in the bid documents must be authenticated by the bidder's authorized signatory with company seal.

1.1.6 The EMD must be submitted as per the prescribed modes mentioned in the NIT. Scanned copy of EMD proof must be uploaded with the Technical Bid.

1.1.7 Bids submitted without valid EMD or with insufficient EMD will be summarily rejected.

1.1.8 The Institute may seek clarifications from bidders during the evaluation process. Failure to provide satisfactory clarifications within the stipulated time may lead to rejection of the bid.

1.1.9 Bidders must ensure that they have a valid Digital Signature Certificate (DSC) for uploading bids on the e-tender portal.

1.2 Bid Preparation

1.3.1 Bidders must carefully read the entire tender document including all technical specifications, terms and conditions before preparing the bid.

1.2.2 The Technical Bid must contain all documents as listed in **Annexure-I (Document Checklist)**.

1.2.3 Bidders must submit a **Compliance Sheet** (Annexure-II) for each equipment, clearly indicating compliance (Yes/No) against each specification point with page reference to supporting documents.

1.2.4 Any deviation from the specified technical requirements must be clearly mentioned in the compliance sheet. Hidden deviations discovered later may lead to rejection.

1.2.5 Bidders must provide detailed technical brochures/catalogs of the quoted equipment with the required specifications highlighted.

1.2.6 Financial Bid must be submitted **only in the BOQ format** provided on the e-tender portal.

1.2.7 Bidders must quote prices in **Indian Rupees (INR) only**.

1.3 Bid Submission

1.3.1 Bids must be submitted online through https://uktenders.gov.in only.

1.3.2 The bidder is responsible for ensuring timely submission of the bid before the deadline. Late bids will not be accepted under any circumstances.

1.3.3 The server time displayed on the e-tender portal will be considered as the standard time for all purposes.

1.3.4 After successful submission, the portal will generate a bid submission acknowledgement. Bidders must preserve this for their records.

1.3.5 Hard copies of Technical Bid documents (spiral bound) along with EMD proof must be submitted physically to the Registrar's office before the Technical Bid opening date.

1.4 Bid Opening

1.4.1 **Technical Bid Opening:** Will be done online on in the presence of bidders or their authorized representatives (if present).

1.4.2 Only **one representative** per bidding firm will be allowed to attend the bid opening. The representative must carry a proper authorization letter on company letterhead.

1.4.3 **Financial Bid Opening:** Financial bids of only technically qualified bidders will be opened. The date and time will be intimated through the e-tender portal.

SECTION 2: ELIGIBILITY CRITERIA

Bidders must satisfy **ALL** of the following eligibility criteria. Non-compliance with any criterion will result in disqualification.

2.1 Legal Status

2.1.1 The bidder must be:

- Original Equipment Manufacturer (OEM), **OR**
- Authorized Dealer/Distributor/Agent of the OEM with valid authorization letter specific to this tender

2.1.2 The bidder must be a registered entity in India (Proprietorship/Partnership/Private Limited/Public Limited Company/LLP).

2.1.3 Bidders must have been in business for **minimum 5 years** as on the date of bid submission.

2.2 Financial Criteria

2.2.1 **Average Annual Turnover:** Minimum ₹1,00,00,000/- (Rupees One Crore) during the last three financial years (2022-23, 2023-24, and 2024-25).

2.2.2 Audited Balance Sheets and Profit & Loss Accounts for the last three financial years, certified by a Chartered Accountant, must be submitted.

2.2.3 A Certificate from Chartered Accountant stating the average annual turnover for the last three financial years must be provided.

2.3 Experience Criteria

The bidder must have successfully completed supply, installation, and commissioning of similar laboratory equipment/testing machines in the last **five years (2020-2025)** meeting **at least ONE** of the following conditions:

Option 1: Three similar completed works, each costing (40% of estimated bid value)

OR

Option 2: Two similar completed works, each costing (50% of estimated bid value)

OR

Option 3: One similar completed work costing not (80% of estimated bid value)

"Similar Work" is defined as: Supply, installation, and commissioning of material testing equipment/machines (such as UTM, Compression Testing Machine, Triaxial Testing System, NDT equipment, etc.) to:

- IITs/NITs/IIITs/Central Universities/State Technical Universities
- CSIR/DRDO/ISRO Laboratories
- Central/State Government Departments/PSUs
- NABL Accredited Testing Laboratories
- Reputed Private Universities/Engineering Colleges (AICTE approved)

2.3.3 Work Orders, Completion Certificates, and Performance Certificates from clients must be submitted as proof.

2.4 Technical Capability

2.4.1 The bidder must have adequate technical manpower including qualified engineers and trained service personnel.

2.4.2 The bidder must have a **service center or authorized service representative** in North India (preferably in Uttarakhand/Delhi NCR/UP) for providing after-sales service and support.

2.4.3 Details of service centers/representatives with complete address and contact information must be provided.

2.5 Statutory Compliance

The bidder must possess valid registrations/licenses for:

2.5.1 **GST Registration:** Copy of GST Registration Certificate

2.5.2 **PAN:** Copy of PAN Card

2.5.3 **Shop & Establishment License** (if applicable)

2.5.4 **Import-Export Code (IEC)** (if importing equipment)

All registrations must be valid as on the date of bid submission.

2.6 Blacklisting Status

2.6.1 The bidder must not have been blacklisted/debarred/banned by any Central/State Government Department, PSU, Educational Institution, or any other organization as on the date of bid submission.

2.6.2 A self-declaration on company letterhead (Annexure-III) must be submitted stating that the firm has not been blacklisted.

2.7 Authorization from OEM (For Dealers/Distributors)

2.7.1 If the bidder is not the OEM, a valid **Manufacturer Authorization Letter** (Annexure-IV) from the OEM must be submitted.

2.7.2 The authorization letter must be:

- On OEM's official letterhead
- Specifically for this tender (mentioning GBPIET and tender number)
- Signed by an authorized signatory of the OEM with company seal
- Confirming that the OEM will provide full support for warranty and after-sales service

2.7.3 An **Undertaking from the OEM** (Annexure-V) stating that they will facilitate the dealer with technology/product updates and extend support for warranty must be submitted.

2.8 Local Representation

2.8.1 Bidders must have a **local office or authorized representative in Uttarakhand** or must commit to establishing one within 30 days of award of contract.

2.8.2 Address proof and contact details of the local office/representative must be provided.

SECTION 3: SCOPE OF WORK

3.1 General Scope

The scope of work under this tender includes:

3.1.1 **Supply** of Civil Engineering Laboratory Equipment as per technical specifications mentioned in Section 4.

3.1.2 **Transportation and Insurance** of equipment from the manufacturer's/supplier's premises to GBPIET, Pauri Garhwal at bidder's risk and cost.

3.1.3 **Unloading and Handling** of equipment at the Institute premises.

3.1.4 **Installation and Commissioning** of all equipment at the designated locations in Civil Engineering Department laboratories.

3.1.5 **Testing and Calibration** of all equipment as per relevant Indian/International standards with NABL/equivalent accredited calibration certificates.

3.1.6 **Demonstration and Training** of faculty members, technical staff, and students on the operation and maintenance of the equipment.

3.1.7 **Comprehensive On-Site Warranty** for a minimum period of 3 years from the date of successful installation and commissioning.

3.1.8 **Provision of Operation & Maintenance Manuals** in English language with detailed instructions.

3.1.9 **Supply of Accessories and Spare Parts** as mentioned in the technical specifications.

3.2 Pre-Installation Requirements

3.2.1 The bidder must inform the Institute about **site preparation requirements** (if any) immediately after receipt of purchase order. This includes:

- Space requirements
- Foundation/flooring specifications
- Electrical power requirements (voltage, phase, load)
- Water supply requirements
- Compressed air supply requirements
- Any special environmental conditions (temperature, humidity, etc.)

3.2.2 The bidder may visit the Institute after receiving the purchase order to inspect the installation site and provide guidance for site preparation.

3.2.3 GBPIET will arrange for basic civil works, electrical connections, and other infrastructure as per the bidder's specifications. However, any specialized requirements must be clearly mentioned in the bid.

3.2.4 The bidder must provide complete details of site preparation requirements within **15 days of purchase order** to avoid delays in installation.

Additional Terms and Conditions for Award Purchase Order

1. The Bidder/OEM should have 10 years of experience in manufacturing the same/similar equipment in their manufacturing facility.

2. Bidder should have MSME/NSIC Registration
3. OEM should have its own manufacturing facility & should enclose the Factory License of the Manufacturing Plant as proof of OEM.
4. The OEM should have 10 years of experience in manufacturing such equipment and more than 50 engineers/technicians in their manufacturing facility. The certificate of incorporation should be submitted along with the list of employees with proof of ESI and EPF deducted.
5. OEM/Bidder must have NABL Calibration Facility, Own or Sister Concern for the last 10 Years. Documents in support should be submitted with the bid.
6. OEM/Bidder having Inhouse or Sister Concern Testing Facility & Calibration in support of Photographs Inhouse Testing & Calibration Facility to be submitted along with the Bid.
7. OEM/Bidder should not have been debarred/blacklisted by any State Government / Central Government institution/department for any reason in the previous 15 financial years. An affidavit in this regard on stamp paper should be submitted by the bidder.
8. The bidder/OEM must submit copies of purchase orders for similar equipment, including Electromechanical Cyclic Triaxial Equipment, Servo CTM (Load & Displacement), and other tender-related equipment, supplied to reputed Government Organizations such as NITs, IITs, or other Government Institutions during the last three years. The bidder shall also furnish the relevant work orders and installation reports as proof of successful supply and installation of the equipment.
9. Original catalogue of the equipment is required; otherwise, the quotation may not be considered and treated as cancelled (Original catalogue should not be printed on letterhead)
10. During the technical evaluation phase, the buyer reserves the right to request an online product demonstration from any bidder to verify compliance with the required specifications and assess product quality. The bidder must arrange and present the online demonstration within five (5) days of receiving such a request. Failure to comply may result in rejection of the bid.
11. Bidder should submit a valid ISO 9001, ISO 45001 and ISO 14001 certificate of OEM.
12. Payment will be released only after satisfactory delivery, installation, demonstration and acceptance of goods at our Institute.
13. Escalation Matrix for after-sales support to be provided.
14. The prices must be inclusive of GST, packing, freight, installation, etc.
15. Bidders who do not meet the criteria given above are subject to being disqualified if they have made untrue or false representations in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, any false declaration, etc.

3.3 Delivery Schedule

3.3.1 **Delivery Period:** The equipment must be delivered within **maximum 4 months (120 days)** from the date of issue of purchase order or opening of Letter of Credit (whichever is applicable).

3.3.2 Partial deliveries will be accepted only with prior written approval of the Institute.

3.3.3 The bidder must inform the Institute about the expected delivery schedule at least **7 days in advance** along with:

- Invoice copies
- Packing list
- Insurance documents
- Transportation details
- Contact details of person accompanying the consignment

3.4 Installation and Commissioning

3.4.1 The equipment must be installed and commissioned within **2 weeks (14 days)** of arrival of equipment at the Institute, provided the site is ready as per bidder's specifications.

3.4.2 Installation and commissioning must be done by qualified and trained engineers/technicians from the bidder/OEM.

3.4.3 All installation materials, tools, consumables, and manpower required for installation shall be arranged by the bidder at no extra cost.

3.4.4 After successful installation, the bidder must conduct performance tests to demonstrate that the equipment meets all specified technical parameters.

3.4.5 A **Joint Installation and Commissioning Certificate** signed by the bidder's representative and the Institute's authorized person must be prepared and submitted.

3.5 Training

3.5.1 The bidder must provide **comprehensive hands-on training** to:

- Faculty members (minimum 5 persons)
- Technical staff/Laboratory Assistants (minimum 5 persons)
- Students (one batch of 20-30 students)

3.5.2 Training must be conducted at GBPIET premises immediately after successful commissioning.

3.5.3 Training duration must be **minimum 2-3 days** for each equipment covering:

- Equipment operation and controls
- Safety precautions
- Routine maintenance procedures
- Troubleshooting common problems
- Software operation (if applicable)
- Calibration procedures

3.5.4 Training manuals/handouts must be provided to all participants.

3.5.5 A **Training Completion Certificate** (Annexure-VI) signed by the bidder's trainer and Head of Department must be submitted.

3.6 Documentation

The bidder must supply the following documents in English language:

3.6.1 **Operation Manuals:** Detailed step-by-step instructions for operating the equipment, including all features and functions (2 copies in hard copy + soft copy on USB/CD).

3.6.2 **Maintenance Manuals:** Procedures for routine and preventive maintenance, troubleshooting guides, and maintenance schedules (2 copies + soft copy).

3.6.3 **Service Manuals:** Technical service information including circuit diagrams, spare parts list with part numbers, and service procedures (1 copy + soft copy).

3.6.4 **Safety Instructions:** Comprehensive safety guidelines and precautions for safe operation.

3.6.5 **Calibration Certificates:** NABL/DAKKS/UKAS/COFRAC or equivalent accredited calibration certificates for all measuring instruments and transducers.

3.6.6 **Test Certificates:** Factory test reports and quality certificates from the manufacturer.

3.6.7 **Warranty Cards:** Duly filled warranty cards with serial numbers and warranty period.

3.6.8 **Software CDs/USB:** Installation media for all software (if applicable) with license keys.

3.6.9 **Compliance Certificates:** CE marking certificate, ISO certificates, or other relevant compliance documents.

3.7 Packing and Marking

3.7.1 Each package must be marked on three sides with waterproof paint/indelible ink showing:

- Equipment nomenclature
- Purchase Order No. and Date
- Country of Origin
- Supplier's Name and Address
- Consignee details: **Head, Civil Engineering Department, GBPIET, Pauri Garhwal - 246194, Uttarakhand**
- Package Number (e.g., Package 1 of 5)
- Gross Weight and Net Weight
- Handling instructions (e.g., "This Side Up", "Fragile", "Handle with Care")

3.7.2 Packing must be export-worthy and suitable for long-distance transportation to hilly terrain.

3.7.3 All delicate parts, electronic components, and precision instruments must be properly cushioned and protected.

3.7.4 A detailed packing list must be attached to each package and also sent separately to the Institute.

3.8 Insurance

3.8.1 For **indigenous supplies:** The equipment must be insured by the supplier for **110% of the invoice value** from "warehouse to warehouse" (i.e., from supplier's premises to final installation at GBPIET) on "All Risks" basis.

3.8.2 For **imported supplies:**

- **FOB basis:** Institute will arrange marine insurance
- **CIF/CIP basis:** Supplier must arrange insurance for 110% of CIF/CIP value up to GBPIET

3.8.3 Insurance must cover all risks including transit damage, fire, theft, natural calamities, etc.

3.8.4 The insurance policy must remain valid for at least **3 months after installation and commissioning**.

3.8.5 In case of any damage during transit or handling, the supplier must replace the damaged items at no extra cost. Insurance claims shall be settled by the supplier.

SECTION 4: TECHNICAL SPECIFICATIONS

The equipment to be supplied must meet or exceed the following technical specifications. Any deviation must be clearly indicated in the Compliance Sheet (Annexure-II).

EQUIPMENT LIST

Sr. No.	Equipment Description	Quantity
1	Digital Rebound Hammer with Premium Calibration Certificate and Branded Android Smartphone	01 No.
2	Ultrasonic Pulse Velocity Tester	01 No.
3	Half Cell Potential Testing Equipment	01 No.
4	Rebar Locator & Cover Meter Testing Equipment	01 No.
5	Pavement Core Drilling Machine (As per EN 12504-1)	01 No.
6	Soil - Static cum Cyclic Triaxial Testing System, 10kN / 10Hz (As per IS: 2720 Part 12, ASTM D 5311 / ASTM D 3999) With OEM NABL Calibration Certificate, Supplied with Computer	01 No.
7	Fully Automatic Compression Testing Machine Servo Controlled with Load & Displacement Control, Capacity 3000 kN with Software, Computer & Data Logger with In-House NABL Calibration Certificate	01 No.

4.1 EQUIPMENT 1: DIGITAL REBOUND HAMMER

Digital Rebound Hammer: With Premium Calibration Certificate and Branded Android Smartphone

Technical Specifications

4.1 Instrument Firmware

- Equipped with embedded firmware for automatic calculation of rebound values.
- Calculations must adhere to international standards for accuracy and consistency.

4.2 Impact Energy

- Type N Hammer Impact Energy: 2.207 Nm

4.3 Compressive Strength Measurement Range

- **Standard Range** (N-Type): 10 to >100 N/mm² (1,450 to >14,500 psi)

4.4 Display & Interface

- Digital Display: Backlit graphical LCD with 100 x 100 pixels resolution.
- Real-time display of impact series and result trends.
- Display allows series review, impact deletion and validity check.

4.5 Memory Capacity

- Internal Memory: > 20,000 impact values.
- Display Device Memory: Uses external iOS/Android device memory for extended storage and review.

4.6 Connectivity

- Low Energy Bluetooth® for wireless data transfer and smartphone interface.
- USB Port for firmware updates and battery charging.

4.7 Measurements and Operational Features

- Impact angle independent readings.
- Real-time impact series visualization on device screen.
- Automatic series validation and result checks.
- Ability to delete invalid impacts and review entire test series.

4.8 Power Supply

- Powered by Standard AAA batteries – either alkaline or rechargeable.
- Minimum battery capacity: 20,000 impacts per charge.

4.9 Operating Environment

- Operating Temperature: 0°C to 50°C
- Suitable for both laboratory and field-testing environments.

4.10 Accessories and Inclusions

- Device supplied with:
    - Premium Calibration Certificate (traceable to international standards)
    - Branded Android Smartphone for display, operation, and data handling
    - USB cable for charging and data transfer
    - Carrying case
    - User manual.

4.11 Compliance & Certification

- Equipment must comply with international standards: ASTM C805, EN 12504-2,
- Supplied with Premium Calibration Certificate from the OEM or authorized calibration agency.

Calibration Certificate

The equipment must be calibrated by an NABL/NCCBM-accredited organisation, and the calibration certificate should be provided along with the equipment at the time of supply.

4.2 EQUIPMENT 2: ULTRASONIC PULSE VELOCITY TESTER

Ultrasonic pulse velocity (UPV) test instrument to examine the quality of concrete and other materials such as rock, wood and ceramics. The system provides an extended range of measurement modes and superior features for on-site testing: assessing the concrete uniformity.

Features:

1. Measurement performance: Optimised pulse shaping, automated transmission settings for optimum performance and a range of new, more powerful transducers ensure accurate, stable measurements.
2. Integrated waveform display: Allows analysis of the received signal and manual triggering directly on the instrument.
3. On-line data acquisition: Full remote control of all transmission parameters, data logging function and functionality that turns your PC into an oscilloscope.
4. USB interface and data analysis software; Data analysis and export to third-party programs.
5. Open interface; Control Pundit Lab using third-party software such as LabVIEW.
6. Standards: EN12504-4 (Europe), ASTM C 597- 02 (North America), BS 1881 Part 203 (UK), ISO1920-7:2004 (International), IS516 (India).
7. Integrated gain stage; Removes the need for an external amplifier when using exponential transducers and long cables.
8. Compressive strength measurement: Conversion curves for strength estimation can be created in the software and uploaded to the instrument to give instant strength estimations on site.
9. Combined estimates with rebound hammer; SONREB curves may also be uploaded onto the instrument for improved compressive strength estimates in combination with rebound hammer measurements.
10. Time stamp: A real-time clock has been integrated to provide a time stamp to every measurement recorded.
11. Review list: Saved measurements may be reviewed directly on site without the need for a PC connection.

Specifications:

1. **Range:** 0.1 – 9999 µs
2. **Resolution:** 0.1 µs

3. **Display:** 79x21mm OLED
4. **Transmitter:** Optimized energizing pulse 125V, 250V, 350V, 500V, AUTO
5. **Selectable gain steps**: 1x, 2x, 5x, 10x, 20x, 50x, 100x, 200x, 500x, 1000x AUTO
6. **Bandwidth:** 20 kHz – 500 kHz
7. **Memory:** Non-volatile, > 500 measured values
8. **Battery:** 4 x AA batteries, primary or rechargeable
9. **Mains:** Via USB charger
10. **Operating temperature:** -10 ^{O}C to +60 ^{O}C
11. **Humidity:** <95% RH, non-condensing
12. SONREB method (Ultrasonic plus rebound hammer for compressive strength)
13. Time stamp for measurements - Yes
14. Measurement review list on the instrument

Supplied complete with the following:

Main display unit, 2 transducers 54kHz (P wave), 2 BNC cables 1.5 m, couplant, calibration rod with 25µs, calibration rod with 100µs, battery charger with USB-C cable, 4x AA(LR6) batteries, data carrier with software, documentation and carrying case.

Calibration Certificate

The equipment must be calibrated by an NABL/NCCBM accredited organization, and the calibration certificate should be provided along with the equipment at the time of supply.

4.3 EQUIPMENT 3: HALF CELL POTENTIAL TESTING EQUIPMENT

The system must be a wireless, Bluetooth-enabled, half-cell corrosion potential mapping device suitable for evaluating the corrosion activity of embedded steel in concrete. The system shall be compatible with Apple iPads for real-time data visualization and reporting.

Technical Specifications:

Parameter	Specification
Electrode Type	Copper-Copper Sulphate ($Cu/CuSO_4$) Rod Electrode
Wheel Electrode	Integrated wheel electrode for continuous measurement
Technology	Half-cell potential measurement
Measured Quantity	Corrosion potential in millivolts [mV]

Parameter	Specification
Voltage Measurement Range	-3000 mV to +3000 mV
Resolution (Voltage)	High resolution, suitable for fine potential changes
Input Impedance	≥ 100 MΩ
Measurement Connection	Wireless via Bluetooth
Measurement Depth	Resolution: Up to 2732-by-2048
Encoder Accuracy	±0.5 mm / 0.02 in + 0.78% of measured length
Scanning Resolution	3.3 mm / 0.13 in (128 steps per rotation)
Max Scanning Speed	Up to 1 m/s (3.3 ft/s)
Max Area Scan	50 m x 50 m (165 ft x 165 ft)
Display Unit	Any compatible Apple iPad (iOS 11.0 and higher) , Screen size: From 7.9" to 12.9”, Resolution: Up to 2732-by-2048, Memory: Up to 2TB, Camera: Up to 12MP Wide and 10MP Ultra-Wide
Export formats	• JPG (Screenshot) PNG • CSV • HTML • DXF
Battery	1xAA (NiMH) rechargeable or non-rechargeable, Removable Flight-safe, 8 Hours autonomy, USB-C charger

Scope of Supply

The corrosion kit shall be supplied with the following components:

- Corrosion potential sensor
- Cu/$CuSO_4$ rod electrode with connection cable
- 25 m cable reel including clamp
- Copper sulphate $CuSO_4$ (250 g)
- Large contact sponge for rod electrode
- Universal sensor holder

- iPad harness holder
- Quick start guides
- 2 x AA batteries
- USB-C charging cable
- 4-slot battery charger
- Carrying case
- Software
- Any compatible Apple iPad (iOS 11.0 and higher)

4.4 EQUIPMENT 4: REBAR LOCATOR & COVER METER TESTING EQUIPMENT

Technical Specification for Rebar Diameter & Cover Meter

The Rebar Diameter & Cover Meter should be a wireless, portable, non-destructive testing instrument designed for high-precision spot measurements, line scans, and area scans of reinforcement in concrete. The device should include a complete suite of hardware and software tools, making it suitable for professional infrastructure inspection and asset condition assessment.

Technical Specifications:

Parameter	**Specification**
Technology	Eddy Current
Connection	Wireless
Display	High-contrast OLED screen
Cover Measuring Depth	Up to 185 mm (7.3 in)
Cover Accuracy	±1 mm (0.04 in) to 4 mm (0.16 in), depending on depth
Rebar Diameter Measurement Depth	Up to 63 mm (2.5 in)
Rebar Diameter Accuracy	± rebar size under optimal conditions
Encoder Accuracy	±0.5 mm (0.02 in) + 0.5% of measured length
Max Scanning Speed	0.5 m/s (1.7 ft/s)
Max Line Scan Distance	1,000 m (0.6 miles)
Max Area Scan	10,000 m² (107,000 ft²)

Parameter	Specification
Technology	Eddy Current
Connection	Wireless
Display	High-contrast OLED screen
Battery	2 x AA (NiMH) rechargeable or non-rechargeable, Removable, Flight-safe, 8 hours autonomy
Dimensions	250 x 130 x 45 mm / 9.8 x 5.1 x 1.8 in (with cart), 190 x 75 x 45 mm / 7.5 x 3.0 x 1.8 in (without cart)
Weight	690 g / 1.5 lb (with cart), 300 g / 0.7 lb (without cart)
Display Unit Specs	Apple® iPad recommended (iPad with iOS 13.0 and higher)

App Tech Specs

Parameter	Specification
Measurement Modes	Area Scan, Multiline Scan, Line Scan, Spot data import
Review Modes	Area scan view, Multiline scan view, Line scan view, Signal strength view, Statistics
Image processing	Auto rebar spacing first rebar layer, Neighboring rebar correction first layer, Neighboring rebar correction second layer, Align rebar positions
Display settings	Concrete cover threshold slider with colour palette
On-site annotations	Markers, photos, geolocation, voice notes
Export formats	JPG (Screenshot), PNG, CSV, HTML
Reporting	Workspace integration, Share via URL, Automatic Logbook, Raw data export, Instant report generation

Scope Of Supple:

The product Should consists of:

- Sensor
- Software
- Compatible ipad
- 2x rechargeable NiMH battery, batteries charger,
- carrying strap, chalk, AR markers,
- quick start guides and carrying case.

4.5 EQUIPMENT 5: PAVEMENT CORE DRILLING MACHINE

Scope

The machine shall be a portable core drilling machine suitable for drilling cores in pavement, roads, concrete, and surfaces for testing and inspection purposes. The unit shall be robust, lightweight, and suitable for field operations. It shall be capable of extracting core samples up to 150 mm diameter and depths exceeding 4–5 meters using extension rods.

General Description

1. The machine shall be lightweight, portable, and easy to operate for field applications.
2. The frame shall be constructed from strong tubular steel and mounted on two pneumatic tyres for easy transportation.
3. A front towing hook shall be provided for attachment to a jeep or similar vehicle.
4. The machine shall be well-balanced, allowing a single operator to move or position it without excessive effort.
5. The main gearbox shall provide a manual feed mechanism of approximately 600 mm and shall be capable of rotation through 0–360 degrees, allowing drilling at convenient angles.
6. The machine shall be powered by a diesel engine of a minimum 4.8 HP capacity suitable for continuous drilling operations.
7. The drilling system shall be capable of extracting core samples up to 150 mm diameter and depth greater than 4–5 meters using extension rods.
8. The machine shall include a water swivel system and an integrated water pump for wet drilling operations.
9. A clutch mechanism shall be provided to engage or disengage the water pump, allowing operation in wet or dry drilling modes depending on the drilling requirement.

Technical Specifications

Parameter	Specification
Type	Portable Core Drilling Machine
Application	Core extraction in concrete, asphalt pavement and roads
Power Source	Diesel Engine
Engine Capacity	Minimum 4.8 HP
Frame	Tubular steel frame
Mobility	Mounted on two pneumatic tyres
Feed Mechanism	Manual feed approx. 600 mm
Rotation	0–360° adjustable drilling angle
Maximum Core Diameter	Up to 150 mm
Maximum Drilling Depth	More than 4–5 meters with extension rods
Water System	Integrated water swivel and water pump
Water Pump Control	Clutch operated (engage/disengage for wet or dry drilling)

Core Bits (To Be Supplied)

The supplier shall provide diamond core bits with the machine as per the following specifications:

Item No.	Description	Diameter	Length
1	Diamond Core Bit	50 mm	200 mm
2	Diamond Core Bit	50 mm	400 mm
3	Diamond Core Bit	75 mm	200 mm
4	Diamond Core Bit	75 mm	400 mm
5	Diamond Core Bit	100 mm	200 mm
6	Diamond Core Bit	100 mm	400 mm
7	Diamond Core Bit	150 mm	200 mm
8	Diamond Core Bit	150 mm	400 mm

All core bits shall be diamond-tipped and suitable for drilling reinforced concrete and asphalt pavement.

Calibration Certificate

The equipment must be calibrated by an NABL-accredited organisation, and the calibration certificate should be provided along with the equipment at the time of supply.

4.6 EQUIPMENT 6: SOIL - STATIC CUM CYCLIC TRIAXIAL TESTING SYSTEM

The system is a tabletop model, a highly advanced combination of electromechanical and controlled electronics where σ1 is applied through an electromechanical actuator

in dynamic tests and σ2 & σ3 are applied through a digital pressure controller. It is totally based on Close Loop principle. The processing of the pre-programmed signal and the machine's responsible signal in the P.I.D. Controller is at the speed of 10 kHz. This keeps the machine working within the limits of ± 1% of the programmed signal. Confining pressure & Back pressure are also controlled automatically through a computer and operate on close loop control mechanism. The system is capable of performing following tests as per relevant standard ASTM/ BS/AASHTO/IS etc.: Saturation, consolidation Tests (B check, saturation ramps and isotropic consolidation) Standard Static Triaxial tests (UU, CU, CD etc.) with pore pressure and Volume change measurement, Liquefaction test, Stress Controlled Cyclic Triaxial strength of soils, Strain Controlled Cyclic Triaxial strength of soils, determination of modulus and damping properties of soils

Salient Features:-

- Compact in design, with ease of operation.
- Based on **CLOSED LOOP CONTROL FEEDBACK** mechanism using advanced electromechanical actuator for Cyclic loading and cell pressure & back pressure, conforming to stringent requirements as per the International norms **(ASTM 3999 & ASTM 5311**).
- Fully computer-controlled operation to control Axial Loading, Cell Pressure & Backpressure with User-friendly Software to conduct Cyclic Triaxial test.
- Fully Automatic Stress / Strain Controlled Cycling from 0.01 Hz to 10Hz for Cyclic Triaxial Test and Static tests, i.e. <0.001Hz.
- Variety of Waveform Selection- Sine, Square, Triangular, Haversine, Random, Ramp etc.Dynamic Loading Range- **±20N to ± 10kN.**
- Dynamic Displacement of **± 25mm** (50mm) with a resolution of 0.001mm, dependingupon the frequency of operation.
- Facility to study the liquefaction behaviour of soil.
- Digitally controlled Pressure Controllers for applying Confining and Back PressureRange 10kPa – 1000kPa.
- Suitable for Controlled Axial Loading on a stress/ Strain basis in Static Triaxial testing. Suitable Triaxial cells to accommodate Sample Sizes 38mm, 50mm, 70mm & 100mmdiameter with diameter to length ratio of 1:2 and a Cell pressure up to 1000kPa.
- High-speed real-time multi-channel control system with a high-resolution data acquisitionsystem (20bit).
- Online Plotting of Graphs (Load v/s Displacement, Load v/s Time, Displacement v/s Time) with real-time display of data.
- Advanced Analysis Software as per ASTM 3999 & 5311 for Cyclic testing and RoutineStatic Triaxial testing.

LOAD FRAME

Loading Frame is free standing two pillar type, table mounted unit. It has a base and a cross headfitted with electromechanical actuator along with servo motor. Static and dynamic loading are fully computer controlled. It can accommodate Triaxial cell for sample sizes up to 100mm diameter & 200mm height.

Technical Specifications:-

Frame Capacity : 20kN

Triaxial Cell accommodate : Up to 100mm diameter & 200mm heightHorizontal clearance : 350mm

Vertical clearance : 900mm

Actuator capacity : ±10kN

Stroke Length : 100mm (+/-50mm)

Frequency : 0.01Hz-10Hz

Cyclic Loading range : ±20N – ±10kN

Performance frequency : 4mm peak to peak amplitude at 5Hz

Power Supply : 230V Single Phase

Note – Load Frame is suitable for conduct test specimen size 150X300mm

TRIAXIAL CELL WITH ACCESSORIES FOR 38MM, 50MM, 75 MM, 100 MM DIA SPECIMEN

Standard Triaxial Cell can accommodate sample sizes 38mm & 50mm diameter with L/D ratio of2:1. It is made up of a stainless steel base with an acrylic cover for clear view of the specimen during sample preparation and ease of placing internal instrumentation. It is suitable for both Static and Dynamic tests (Compression & Extension). It has a submersible load cell connected to the stainless steel piston (Loading ram). Linear bearings and low friction seal ensure smooth movement of the transfer bar (plunger) for dynamic testing. Base of the cell has five no-volume change valves (ports), one each for back pressure, pore pressure, confining pressure and top drainage. Air vents are provided at the top to remove entrapped air.

Tests Possible : Static & Dynamic (Extension & Compression both)

Confining Pressure : Up to 1000 kPa

Specimen Size : 38mm-100 mm dia.

Submersible Load cell : ±10kN

ACCESSORIES:

As standard the following accessories are supplied along with the Triaxial Cell for each samplesize i.e. 38mm – 100 mm: -

Supplied complete with one bottom pedestal and top cap with two ports for pore water or pore air pressure & flushing, Membrane placing tool, O-ring placing tool, 4 porous discs/stones, 4 Perspex disc, split former, 2 part split mould (for trimming the ends of cohesive samples), suction sleeve stretcher (sand former), 20 membranes each, high vacuum grease and 4 sealing O-rings for 38mm -100 mm dia samples

As standard the following accessories are supplied along with the Triaxial Cell for each samplesize i.e. 70mm & 100mm: -

Supplied complete with one bottom pedestal and top cap with two ports for pore water or pore air pressure & flushing, Membrane placing tool, O-ring placing tool, 4 porous discs/stones, 4 Perspex disc, split former, 2 part split mould (for trimming the ends of cohesive samples), suction sleeve stretcher (sand former), 20 membranes each, high vacuum grease and 4 sealing O-rings for 70mm & 100dia samples,

AUTOMATIC PRESSURE SYSTEM

Automatic pressure system is part of the system that generates the required pressure to be appliedto the specimen. It is made up stainless steel pressure pipes. Application of Pressure is based on the Closed loop Principle where the feed back is taken from the pressure or volume transducers. It is provided with hose connection 4/6mm and can be controlled by front panel display and computer software via Ethernet/ serial port also. It is also suitable for Direct closed loop Ko test. It has different modes of control-

- ✓ Constant Pressure
- ✓ Continuous and stepless increasing or decreasing pressure ramps
- ✓ Constant Flow rates
- ✓ Constant volume conditions
- ✓ Automatic Volume Measurement

Confining Pressure Controller

This controller is run by a micro stepper/ servo motor and operated through computer or touch panel display. The Confining Pressure value from 10kPa -2000kPa is programmed in the software touch panel display and the same has been maintained on feedback taken from Confining Pressure sensor by movement of the motor. Pressure Value is maintained with in +1% of programmed value. Volume displacement in one filling is approximately 1000ccm. Automatic filling and draining

of water from the controller is done through computer touch panel display. It is automatically protected against pressure and volume over range.

Specifications:

Pressure Range	:	10kPa- 1000kPa
Volume capacity	:	1000ccm
Pressure Measurement Resolution	:	0.1kPa
Volume Measurement Resolution	:	0.001ccm
Max. Volume Flow	:	150cm/min. under max. pressure

Back Pressure Controller

This controller is run by a micro stepper/ servo motor and operated through computer touch panel display for pressure and volume control. The Back Pressure value from 10kPa-2000kPa is programmed in the software touch panel display and the same has been maintained on feedback taken from Back Pressure sensor by movement of the motor. Additional sensitive volume change sensor to measure the volume change taking place during the test is fitted. It is automatically protected against pressure and volume over range.

Specifications:

Pressure Range	:	10kPa- 1000kPa
Volume capacity	:	1000ccm
Pressure Measurement Resolution	:	0.1kPa
Volume Measurement Resolution	:	0.001ccm
Max. Volume Flow	:	150cm/min. under max. pressure

De-airing System

A separate Vacuum line with vacuum regulator and gauge is also provided for de-airing of waterand vacuum application. A de-airing chamber of 15Liters capacity is also provided along with the Vacuum pump.

Capacity of De-airing chamber	:	15litres

Vacuum Pump : Creates vacuum of 70cm mercury

PC BASED CONTROL SYSTEM AND APPLICATION SOFTWARE

Control system provides the digital control of the motors to apply axial load & pressures, dataacquisition etc. for the continuous operation of the system.

a) Signal Conditioning and Control Unit with Transducers

Controller basically consists of signal conditioning and controlling unit and operates on Closed Loop Control Principle for axial loading on Load/displacement basis and confining & back pressure. Confining pressure & back pressure are also controlled through computer and also operates on close loop control mechanism. Signal conditioning unit receives the output signal from the various transducers and amplifies and process that signal as per the requirement and transfer it to computer through connecting cables where it is accepted by the data acquisition system. All PID parameters are settable through software and interfaced through Ethernet or better mode. All transducer are connected via plug-in cards.

The following transducers with necessary amplifiers, cables (Approx. 3m) and connections aresupplied with the system for the accurate measurement of various parameters:

1) **Submersible Load Cell (Stainless steel) for Dynamic Triaxial Testing-** ±10kN (Resolution-1N,Linearity- 0.1% or 0.2% with Amplifier, Accuracy - 0.1% of Full range output or ≤ ± 0.5% of indicated value of load whichever is better) supplied with calibration report.
2) **Displacement Transducer for Dynamic Triaxial Testing** – 0-50mm (±25mm) (Resolution 0.001mm, Accuracy -< 0.1% of Full range output or ≤ ± 0.5% of indicated value whichever isbetter)
3) **Confining Pressure Transducer-** 1000kPa (Resolution- 0.1kPa, Accuracy- <0.1% of full range or ≤ ± 0.50% of indicated value of whichever is better)
4) **Back Pressure Transducer-** 1000kPa (Resolution- 0.1kPa, Accuracy- <0.1% of full range or ≤ ± 0.50% of indicated value of load whichever is better)
5) **Pore Pressure Transducer-** 1000kPa (Resolution- 0.1kPa, Accuracy- <0.1% of full range or ≤ ± 0.50% of indicated value whichever is better)
6) **Volume Change Transducer-** 1000ccm (Resolution- 0.001cc, Accuracy- <0.1% of full range or ≤ ± 0.50% of indicated value whichever is better)
7) Flushing Device suitable for pore water or cell pressure Transducer upto 3.5 mPA

b) Computer for Controlling and Data acquisition

System is provided with dedicated computer laptop of following configuration with supportingdata acquisition card.

Computer

Intel Core i5, 500GB HDD, 4GB DDR RAM, 4USB ports, Keyboard, Mouse,19" LCD monitor, UPS 500VA, Deskjet Color printer

c) Control and Analysis Software

Control software is the integral part of the system for precise controlling & Data Acquisition andanalysis.

Salient Features

- Windows based user friendly software with menu guided control for Closed loop control andmonitoring of all operations of set parameters and data acquisition
- Capable of testing – Saturation (saturated/ unsaturated) and consolidation (isotropic or anisotropic) module, B value check control, Saturation Ramps for cell pressure & Back Pressure,Standard Static Triaxial Shear tests UU, CU, CD tests with pore pressure and Volume change measurement, Ko test & Swelling, Cyclic Load/ Stress Controlled test, Cyclic Strain/displacement controlled test, Dynamic Ramps, Modulus and Damping, Stress Path Test, Liquefaction test as per ASTM D5311 and ASTM D3999, Provision for Unsaturated test condition with air pressure control
- All Setting of PID through software
- High speed real time multi channel control system with high resolution data acquisition system(20bit)
- All Initial test set up through software
- Capable of conducting test in both Load & Displacement control i.e. Stress & Strain control with smooth transfer between load, position and strain control
- Different types of loading can be given to the sample- Sine, Haversine, Square, Triangle,Resilient Waveform, User defined and Ramp signal
- Programmable Loading parameters – Frequency, Base, Amplitude etc.
- Programmable rate of loading/ strain in Static Tests with Independent control of Axial Stress,axial strain or axial load, radial stress, back pressure, low frequency cyclic loading, anisotropicconsolidation
- Computer/Software programmable Safety Limits for each load & displacement
- Independent Taring of each channel
- Facility to hold the actuator and restart the loading during the test.
- Facility to increase the Base load, frequency and amplitude during the test
- Shows number of cycle on screen

- Store the number of cycles in Dynamic test
- Facility to set and maintain the pressure in confining and back pressure controllersindependently
- Facility to fill and drain water from the pressure controllers independently
- Real time display of Load v/s Displacement, Load v/s Time & Displacement v/s Time graphs
- On-line display of load, displacement, Confining pressure, Back/Pore pressures, & Volume change, number of cycles continuously displayed during test
- Auto adjustment of graph scales
- Data conversion to ASCII

Analysis Software for Dynamic Triaxial Test (As per ASTM3999 & ASTM5311)

To analyze the test result separate software is provided that can do all calculations and graphicalanalysis as per ASTM 3999 and ASTM 5311 which shows different type of graph and results.

It provides the following Graphs for detailed Analysis:

- Load Vs Deformation
- Deviatoric Stress Vs Time
- Axial Strain (%) Vs Time
- Excess Pore Pressure Vs Axial Strain (%)
- Excess Pore Pressure Vs Time
- Deviatoric Stress Vs Axial Strain (%)
- Deviatoric Stress Vs Mean Eff. Stress
- Excess Pore Pressure Vs Number of cycles
- Cycle Pore Pressure Ratio Vs Number of cycles
- Average Peak Cyclic Stress Vs Number of cycles
- Peak Cyclic Stress in Compression Vs Number of cycles
- Peak Cyclic Stress in Extension Vs Number of cycles
- Deviatoric Stress Vs Mean Eff. Stress
- Ratio of Minimum C. P. to Isotropic C.P. Vs Number of Cycles
- Double Amplitude Axial Strain Vs Number of cycles
- Axial Strain in Compression Vs Number of cycles
- Axial Strain in Extension Vs Number of cycles
- Perror Vs Number of cycles
- Single Cycle plot – Load Vs Deformation (S-Plot) (Hysteresis loop for Every cycle)

Calibration Certificate

The equipment must be calibrated by an NABL accredited organization, and the calibration certificate should be provided along with the equipment at the time of supply.

4.7 EQUIPMENT 7: Fully Automatic Compression Testing Machine Servo Controlled with Load & Displacement control, Capacity 3000 kN with Software, Computer & Data logger with In House NABL calibration Certificate

The Servo Compression Testing Machine is capable of conducting compression tests on concrete specimens (Cubes and Cylinders) and allied products as per IS: 516/IS: 4031 Part 6: 1988/ASTM C 39 and conforms to the requirements of IS: 14858-2000. These compression testing machines are state-of-the-art machines based on the principle of CLOSE LOOP. The system can be loaded in load/stress control basis. The system accuracy is better than +/- 1% of indicated value of load. A special type of 4-piece oil-filled spherical seating is provided conforming to IS : 14858-2000.

CTM Features:

- Conforming to Testing Procedures laid down in various national and international standards for building material/ concrete specimen
- Suitable for static and low frequency dynamic tests on rock, concrete and other building materials.
- Based on SERVO HYDRAULIC CLOSED LOOP FEEDBACK control mechanism
- Capable to control multiple frames (up to 4 from same hydraulic power pack)
- Fully Computer Controlled operation with User friendly Software
- Controlling on Load or Displacement mode
- High stiffness compression loading frame
- High speed Data Acquisition card with 100 kHz sampling rate
- Programmable Rate of Loading (Pace Rate) in all control modes, including user input file for loading/hold/ unloading applications
- 8 Additional input channels for external transducers such as load cell, pressure transducer, LVDT etc. and the same can be used for controlling also
- Windows based user friendly Application Software for controlling and data acquisition Start, Stop, Hold operation through computer
- Inching/Release operation to set Sample
- Auto release facility after specimen failure
- Facility in the software to study Post failure behaviors of specimens
- Online Plotting of Graphs (Load v/s Displacement, Load v/s Time, Displacement v/s Time) with display of data
- Advance Statistical Analysis
- Safety Limits for Over Load, over travel etc.

1. **LOADING FRAME –**

- Load frame is steel welded structure with high stiffness where top and bottom plates are tied with side place.
- The top plate has the upper spherical seated platen with oil filled ball seat assembly as per IS : 14858-2000 to take care of any irregularity of the specimen surface or slight misplacement of the specimen from the central position.
- hardness of upper and lower spacer is 55HRC or more.
- Load Frame Capacity: 3000kN
- Ram Travel: 50mm
- Vertical Day Light Clearance: 500mm or more
- Horizontal Clearance : 280mm or more
- Platen Size Diameter : 256mm

2. HYDRAULIC POWER PACK –

- Hydraulic power supplies are compact in design and are suitable for the supply of required flow and pressure for the movement of the actuator.
- All the electrical controls including the temperature controller are fixed of the tank.
- It includes all the accessories like pressure line filter, return line filter, oil level, relief valve, pressure gauge, digital temperature indicator and air-cooled heat exchanger. Anti vibration mountings are provided as standard along with the HPS.
- Flow of the pump : 2&4LPM
- Motor capacity : 3 H.P.
- Capacity of the tank : 40 Litres
- Max. Operating pressure : 210 - 600 Bars
- Total machine operates on 440VAC 3 phase supply.

3. **PC BASED CONTROL SYSTEM AND CONTROL SOFTWARE**

Control system provides the digital servo control, Ramp generation & low frequency wave generation for the machine actuator, data acquisition, etc. for the continuous operation of the system.

3.1 **Signal Conditioning & Controlling Unit**

- Servo controller basically consists of signal conditioning unit and controlling unit.
- Signal conditioning unit receives the output signal from the various transducers (Load cell/Pressure Transducers, LVDT, Strain gauge etc.) and amplifies and process that signal as per the requirement and transfer it to computer through connecting cables where it is accepted by the data acquisition system.
- Control is on Load/ Stress or Displacement or Strain basis.
- It consists of dedicated servo controller card that gives the desired processed signal through the P.I.D controller to the servo valve to operate in selected control mode.
- The facility is given to program the rate of loading from 0.1kN/sec-50kN/ sec in Load control and 0.01mm/sec-1mm/sec in displacement control.

Specifications of Controller

- Auto PID operation with Closed loop update rate of 10 kHz to control Pace rate automatically as programmed in the software
- No. of control channels: 4 (Load/Displacement/Strain/ External LVDT Control)
- Selection and controlling of multiple frames (Up to 4)
- Type of Loading: Static and low frequency cyclic
- High speed Data Acquisition card with 100 kHz sampling rate
- Computerised control operation to Start, Stop & Hold the test system
- System accuracy, Load accuracy : < ± 0.5% of indicated value & Displacement accuracy: <± 0.5% of indicated value
- Displacement Measurement: Through LVDT
- Displacement Range: 50mm
- Displacement Resolution: 0.01mm or more
- Rate of Loading: Load control: 0.1kN/sec. to 50 kN/Sec & Displacement control: 0.01mm/ sec to 1mm/sec
- Rate of increase of net deflection: 0.00016mm/sec - 0.001mm/sec.
- 8 Additional input channels for external transducers such as load cell, pressure transducer,
  LVDT etc.
- Supply Input- 220-240 VAC, 50 Hz

3.2 **Computer for Controlling and Data acquisition**

System is provided with dedicated computer of following or better configuration at the time of supply with built in data acquisition card.

4. **Computer**

Intel i5 processor, 320 GB HDD, 4GB RAM, Key Board, Optical Mouse, 6USB Ports, 19” LCD Monitor, Deskjet Colored Printer, UPS

5. **Application Software**

Application software is the integral part of the system for precise operation, Data Acquisition,
storage, processing, analysis and reporting. The software pack-age includes test routines for
Compression and Flexure tests on concrete according to relevant standards such as IS, EN,
ASTM etc.

Test Software Specification

- Windows based user-friendly software with easy graphical user interface
- Programmable rate of loading/displacement in load and displacement control i.e. kN/sec. or

N/mm2/sec or mm/sec or micro strain/sec. and sample parameters (Shape, Dimension,
weight etc.)
• Facility to set up and execution of monotonic, cyclic and user defined test procedures

• Facility to create Test Profiles for different samples
• Provides block programming with sine, square, triangle, ramp, hold, processes, and ability
to play digitized profiles
• Facility to change the rate of loading or rate of displacement during the test
• Auto Fast lift operation to adjust the gap
• Autozeroing/ Independent Taring of each channel
• Auto release of machine after sample failure
• To see the post failure behavior of the specimen
• Computer/Software programmable Safety Limits for Load and Displacement
• Facility to hold load at desired point and restart the loading during the test.
• Online display of numerical values of Load, Stress and Displacement simultaneously with
peak hold facility
• Online plotting of data of Load v/s Time, Dis-placement v/s time, Load v/s Displacement,
Stress v/s Strain graphs
• Real time clock for tracking date, time and runs
• Facility to save test data along with order information about the specimen such as age,
specimen no., size, dimensions etc. in user defined file/di-rectory
• Facility to avoid unauthorized use by creating users password

Analysis Software

• Plotting of following graphsa)
a)Load v/s Time
b) Displacement v/s Time
c) Load v/s Displacement
d) Stress v/s Strain
e) Stress v/s Time
• Calculation of various results (Young's modulus, Maximum strain, Compressive Strength,
Flexural Strength, Flexural toughness etc.)
• Facility to plot the data for a selected run
• Comparative analysis using multi graphs
• Statistical analysis of the test results
• Batch Summary Report Generation
• Detailed Summary Report Generation
• Facility to print Test Reports
• Facility to Export Data to MS Excel

SAFETY FETURES

The following safety features are incorporated in the system-
1) Over Load protection
2) Over Travel protection
3) Front door for operator safety
4) Low oil level Indicator
5) Protection against contamination of oil

Calibration Certificate

The equipment must be calibrated by an NABL-accredited organisation, and the calibration certificate should be provided along with the equipment at the time of supply.

SECTION 5: GENERAL TERMS & CONDITIONS

5.1 Validity of Bids

5.1.1 Bids shall remain valid for **180 days** from the date of opening of Technical Bids.

5.1.2 In exceptional circumstances, the Institute may request bidders to extend the validity period. Bidders have the right to refuse such extension without forfeiting their EMD.

5.1.3 Bidders who agree to extend bid validity must also extend the validity of their EMD accordingly.

5.2 Earnest Money Deposit (EMD)

5.2.1 **EMD Amount:** ₹ 3,00,000/- (Rupees Two Lakhs Forty Thousand Only)

5.2.2 **No EMD Exemption** will be provided under any circumstances, including NSIC/MSME registered firms.

5.2.3 EMD must be submitted through:

- NEFT/RTGS/IMPS (preferred mode)
- Bank Guarantee from Scheduled Commercial Bank

5.2.4 Bids without valid EMD will be **summarily rejected**.

5.2.5 **Refund of EMD:**

- EMD of unsuccessful bidders will be refunded without interest within **30 days** of award of contract.
- EMD of successful bidder will be refunded after submission of Performance Security and signing of contract.

5.2.6 **Forfeiture of EMD:** EMD will be forfeited if:

- Bidder withdraws or modifies the bid after opening
- Bidder does not respond to requests for clarifications
- Bidder refuses to accept the purchase order

- Bidder fails to submit Performance Security within stipulated time
- Bidder is found to have furnished false/misleading information

5.3 Performance Security

5.3.1 **Amount:** 5% of Purchase Order value

5.3.2 **Form:** Bank Guarantee from any Scheduled Commercial Bank in the prescribed format (Annexure-VII)

5.3.3 **Submission Timeline:** Within **21 days** of issue of purchase order

5.3.4 **Validity:** Must remain valid for **warranty period + 60 days**

5.3.5 The Bank Guarantee must be enforceable at a bank branch in Pauri Garhwal or must have a clause to enforce at a local branch in Pauri Garhwal.

5.3.6 Failure to submit Performance Security within the stipulated time will result in cancellation of purchase order and forfeiture of EMD.

5.4 Price and Taxes

5.4.1 **Price Basis:**

- For Indigenous supplies: **Ex-works/FOR GBPIET Pauri Garhwal**
- For Imported supplies: **FOB (named port)**

5.4.2 **Price Quotation:**

- Prices must be quoted in **Indian Rupees (INR) only**
- Prices must be quoted up to **two decimal places**
- Any price quoted beyond two decimal places will be rounded off

5.4.3 **Components of Price:** Bidders must provide itemized breakdown of:

- Basic price of equipment
- Packing and forwarding charges
- Freight/transportation charges
- Transit insurance
- Installation and commissioning charges
- Training charges

- **GST (separately indicating CGST, SGST/IGST, and HSN/SAC code)**
- Any other charges

5.4.4 **GST:**

- GBPIET's GSTIN: [To be provided]
- GST will be paid as per applicable rates and regulations
- GST registration certificate must be submitted with Technical Bid
- Bidders must clearly mention HSN/SAC codes for all items

5.4.5 **Customs Duty Exemption (For Imported Equipment):**

- GBPIET is eligible for customs duty exemption under notification No. 51/96
- Custom Duty Exemption Certificate will be provided by the Institute
- Bidders must provide the following information for issuance of exemption certificate:
    - Shipping details (Master Airway Bill No., House Airway No.)
    - Forwarder details (Name, Contact No., Address)
- **Note:** Exemption certificate will be issued only in the name of GBPIET, not to third parties

5.4.6 **Excise Duty Exemption (if applicable):**

- GBPIET is exempted from Excise Duty
- Exemption certificate will be provided upon submission of:
    - Quotation with details of Basic Price, Rate, Tax & Amount
    - Purchase Order copy
    - Proforma Invoice

5.4.7 **Price Escalation:**

- Prices quoted must be **firm and fixed** for the entire contract period
- No price escalation will be accepted under any circumstances

5.5 Payment Terms

5.5.1 For Indigenous Supplies
100% payment will be made after:

1. Successful delivery of equipment at GBPIET
2. Complete installation and commissioning
3. Satisfactory performance demonstration
4. Acceptance by the Institute's Technical Committee
5. Submission of unconditional Performance Bank Guarantee
6. Completion of training

7. Submission of all required documents and certificates

5.5.2 For Imported Supplies

Payment through Letter of Credit (LC):

1. LC will be opened for **100% FOB/CIF value** after submission of Performance Security
2. LC will be established at the exchange rate prevailing on the date of establishment
3. **80% payment** against presentation of complete and clear shipping documents:
    - Commercial Invoice (4 copies)
    - Packing List (2 copies)
    - Bill of Lading/Airway Bill (original)
    - Insurance Certificate (if CIF)
    - Certificate of Origin
    - Manufacturer's Test Certificate
    - Warranty Certificate
4. **20% payment** after:
    - Successful installation and commissioning
    - Satisfactory performance for 60 days from installation date
    - Submission of unconditional Performance Bank Guarantee
    - Completion of training

5.5.3 Indian Agency Commission (IAC)

1. IAC (if any) will be paid after satisfactory installation and commissioning
2. Payment will be at the exchange rate prevailing on the date of negotiation of LC documents

5.5.4 Bank Charges

1. All bank charges **within India** will be borne by the Institute
2. All bank charges **outside India** will be borne by the Supplier

5.5.5 Payment Processing

1. Payments will be made through NEFT/RTGS/RTGS only
2. Bidders must submit bank details in the prescribed format (Annexure-VIII)
3. Payment will be processed within **30 days** of submission of complete bills and documents
4. TDS as per Income Tax rules will be deducted at source

5.6 Delivery and Installation

5.6.1 **Delivery Period:** Maximum **4 months (120 days)** from date of purchase order/LC opening

5.6.2 **Delivery Address: Head, Department of Civil Engineering G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194 Uttarakhand, India**

5.6.3 **Pre-Delivery Notification:** Supplier must inform the Institute at least **7 days before dispatch** with:

- Expected date of delivery
- Invoice details
- Packing list
- Mode of transport
- Contact details of person accompanying consignment

5.6.4 **Installation Period:** Within **2 weeks (14 days)** of equipment arrival, provided site is ready

5.6.5 **Installation Team:**

- Must comprise qualified and trained engineers/technicians
- Accommodation will **not** be provided by the Institute
- Supplier must arrange accommodation at their own cost

5.6.6 **Site Readiness:**

- Supplier must submit site preparation requirements within **15 days of purchase order**
- Institute will arrange basic infrastructure as per supplier's specifications
- Any delay in installation due to non-submission of site requirements will be supplier's responsibility

5.7 Inspection and Acceptance

5.7.1 **Pre-Dispatch Inspection:**

- Supplier must conduct thorough factory testing before dispatch
- Factory test reports must be provided

5.7.2 **Receipt Inspection:**

- Equipment will be inspected upon receipt for physical damage, completeness, and specifications
- Any damage/shortage must be reported immediately

5.7.3 **Installation Inspection:**

- Equipment will be inspected during installation for compliance with specifications

5.7.4 **Performance Test:**

- After installation, performance tests will be conducted as per technical specifications
- Equipment must demonstrate all specified performance parameters

5.7.5 **Acceptance Certificate:**

- Will be issued only after satisfactory performance test and training
- Joint Installation and Commissioning Certificate will be signed by supplier and Institute representatives

5.7.6 **Right to Reject:**

- Institute reserves the right to reject equipment not meeting specifications
- Rejected equipment must be replaced within **30 days** at supplier's cost

5.8 Warranty

5.8.1 **Warranty Period:** Minimum **3 years comprehensive on-site warranty** from date of installation and acceptance

5.8.2 **Warranty Coverage:**

- All manufacturing defects
- Faulty workmanship
- Defective components/parts
- Software bugs and errors
- Calibration (annual calibration during warranty period)

5.8.3 **Warranty Services:**

- Free repair or replacement of defective parts
- Free labor for repairs
- Free software updates/upgrades
- Annual preventive maintenance (minimum once per year)
- Annual calibration with certificates

5.8.4 **Response Time:**

- Supplier must respond to service calls within **72 hours**
- Repairs must be completed within **7 days** of complaint registration
- If repair takes more than 7 days, temporary replacement (if feasible) must be provided

5.8.5 **Downtime:**

- Maximum permissible downtime during warranty: **1% per annum**
- For every day exceeding permissible downtime, penalty of **1/365 of 1% of equipment value** will be imposed
- Downtime will be counted from date and time of complaint registration

5.8.6 **Warranty Extension:**

- If equipment remains non-operational for more than **5 consecutive days**, warranty period will be extended by equivalent non-operational days

5.8.7 **Exclusions from Warranty:**

- Damage due to negligence, misuse, or unauthorized modifications
- Normal wear and tear
- Consumables (unless otherwise specified)
- Damage due to force majeure events

5.8.8 **Service Engineers:**

- Supplier must have minimum **3 qualified and factory-trained service engineers in India**
- Service engineers must attend to complaints within **48 hours**
- Training certificates from manufacturer must be provided
- Only factory-trained and certified engineers are acceptable during warranty period

5.8.9 **Spare Parts Availability:**

- Supplier must maintain adequate stock of spare parts in India
- Critical spare parts must be supplied within **7 days** of order
- Other spare parts must be supplied within **30 days**
- Spare parts must be available for at least **10 years** after supply

5.9 Annual Maintenance Contract (AMC)

5.9.1 Bidders must quote AMC charges for **2 years after warranty period** in the financial bid

5.9.2 AMC must include:

- All repair and maintenance services
- Replacement of defective parts (excluding consumables)
- Annual calibration with certificates
- Software updates/upgrades
- Preventive maintenance visits (minimum 2 per year)

5.9.3 AMC charges will be finalized at the time of AMC agreement based on quoted rates

5.9.4 AMC charges are **not included** in the equipment cost for evaluation purposes

5.10 Training

5.10.1 **Training Schedule:** Must be conducted immediately after successful commissioning

5.10.2 **Trainees:**

- Faculty members: Minimum 5 persons
- Technical staff: Minimum 5 persons
- Students: One batch of 20-30 persons

5.10.3 **Training Duration:** Minimum **2-3 days per equipment**

5.10.4 **Training Content:**

- Equipment operation and controls
- Safety precautions and emergency procedures
- Test specimen preparation
- Test procedures as per standards
- Data acquisition and analysis
- Software operation (if applicable)
- Routine maintenance procedures
- Troubleshooting common problems
- Calibration procedures

5.10.5 **Training Material:**

- Training manuals/handouts for all participants
- Video demonstrations (if available)

- Sample test data and reports

5.10.6 **Training Certificate:**

- Must be issued to all participants
- Signed by trainer and Head of Department

5.10.7 **Additional Training:**

- Supplier must provide one additional refresher training session within warranty period (free of cost)

5.11 Liquidated Damages

5.11.1 If supplier fails to deliver, install, and commission the equipment within the stipulated period, liquidated damages will be levied at **0.5% per week** of delay, subject to maximum of **10% of purchase order value**.

5.11.2 LD will be calculated on a weekly basis. Part of a week will be considered as full week.

5.11.3 LD will be deducted from pending payments or Performance Security.

5.11.4 Levy of LD does not absolve the supplier from other contractual obligations.

5.12 Force Majeure

5.12.1 **Definition:** Events beyond reasonable control of the supplier including:

- Wars, revolutions, civil unrest
- Earthquakes, floods, fires, epidemics/pandemics
- Government actions (in sovereign capacity)
- Freight embargoes, quarantine restrictions

5.12.2 **Notification:** Supplier must notify the Institute within **7 days** of occurrence of Force Majeure event with supporting evidence.

5.12.3 **Impact:** Supplier will not be liable for liquidated damages or termination for delays caused by Force Majeure.

5.12.4 **Obligations:** Supplier must continue to perform obligations to the extent reasonably possible and seek alternative means.

5.12.5 **Prolonged Force Majeure:** If Force Majeure continues for more than **90 days**, either party may terminate the contract.

5.13 Termination

5.13.1 Termination for Default
Institute may terminate the contract if supplier:

1. Fails to deliver equipment within stipulated time (including extensions)
2. Fails to perform any other obligation under the contract
3. Becomes insolvent or bankrupt
4. Engages in corrupt or fraudulent practices
5. Provides false or misleading information

Consequences of Termination:

- Performance Security will be forfeited
- Supplier will be liable for any additional costs incurred by Institute for procuring similar equipment
- Supplier may be blacklisted

5.13.2 Termination for Convenience
Institute reserves the right to terminate the contract for convenience by giving **30 days written notice**.

In such case:

- Supplier will be paid for work completed
- Performance Security will be returned
- No compensation for anticipated profits

5.14 Defective Equipment

5.14.1 If equipment is found to be:

- Substandard or refurbished
- Not as per specifications
- Defective in manufacturing or workmanship

Institute has the right to:

- Reject the equipment
- Demand replacement within **30 days**
- Recover payments made with **18% interest per annum**
- Forfeit Performance Security
- Blacklist the supplier

5.14.2 All costs of return shipment and replacement will be borne by the supplier.

5.15 Indemnity

5.15.1 Supplier shall indemnify and keep the Institute indemnified against:

- Patent, trademark, copyright infringement claims
- Claims from third parties for injury, death, or property damage
- Any legal liability arising from equipment use
- Statutory non-compliance (labor laws, tax laws, etc.)

5.15.2 Institute will not be responsible for:

- Any accident, injury, or death of supplier's personnel
- Loss or damage to supplier's property
- Any claims from supplier's employees

5.16 Intellectual Property Rights

5.16.1 Supplier warrants that equipment supplied does not infringe any patent, trademark, or copyright.

5.16.2 Supplier shall indemnify the Institute against any claims of infringement.

5.16.3 All documentation, software, and materials supplied become the property of the Institute.

5.17 Confidentiality

5.17.1 Supplier must maintain confidentiality of all information obtained during contract execution.

5.17.2 Information must not be disclosed to third parties without Institute's written consent.

5.17.3 This obligation continues even after contract completion.

5.18 Applicable Law and Jurisdiction

5.18.1 The contract shall be governed by the **Laws of India**.

5.18.2 All disputes shall be subject to the exclusive jurisdiction of **Courts at Pauri Garhwal, Uttarakhand**.

5.19 Arbitration

5.19.1 Any dispute arising out of or related to the contract shall first be attempted to be resolved amicably through mutual consultation.

5.19.2 If dispute cannot be resolved within **30 days**, it shall be referred to arbitration in accordance with **Arbitration and Conciliation Act, 1996**.

5.19.3 The arbitration shall be conducted by a sole arbitrator appointed by the **Director, GBPIET**.

5.19.4 The venue of arbitration shall be **Pauri Garhwal, Uttarakhand**.

5.19.5 The decision of the arbitrator shall be final and binding on both parties.

5.20 Transfer and Subletting

5.20.1 Supplier shall not sublet, transfer, assign, or part with the contract or any part thereof without prior written permission of the Institute.

5.20.2 Any unauthorized subletting will result in termination of contract and forfeiture of Performance Security.

5.21 Amendments and Modifications

5.21.1 No amendment or modification of the contract shall be valid unless made in writing and signed by authorized representatives of both parties.

5.21.2 Institute reserves the right to:

- Increase or decrease quantity of any item up to **25%**
- Add or delete items from the contract
- Modify delivery schedule with mutual consent

5.22 Correspondence

5.22.1 All correspondence must be addressed to:

The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194 Uttarakhand, India Email: registrar@gbpiet.ac.in

5.22.2 Supplier must provide contact details (address, phone, email) of:

- Authorized representative
- Service coordinator
- Local representative (if any)

SECTION 6: SPECIAL TERMS & CONDITIONS

6.1 Fall Clause

6.1.1 Supplier undertakes that equipment/systems being supplied have not been supplied to any other Institute/Department/PSU in India at a price lower than quoted in this tender.

6.1.2 If at any time during the contract period, it is found that similar equipment was supplied at a lower price, the same price (with due allowance for elapsed time) will be applicable to GBPIET.

6.1.3 The difference in cost will be refunded by the supplier if contract has already been concluded.

6.2 Genuine Pricing

6.2.1 Supplier must ensure that quoted prices are not more than prices offered to any other customer in India for identical equipment.

6.2.2 Copy of latest price list for quoted equipment, applicable in India (particularly to IITs/NITs/Government Organizations), must be enclosed with the offer.

6.2.3 If supplier is found to have quoted higher prices, the bid may be rejected or appropriate action will be taken.

6.3 Equipment Relocation

6.3.1 If Institute shifts to a new campus/building during the warranty period, the supplier must:

- Dismantle the equipment
- Transport to new location
- Reinstall and commission
- **Free of cost**

6.3.2 Supplier must be informed at least **30 days in advance** of such relocation.

6.4 Upgrades and Obsolescence

6.4.1 If during warranty period, any component becomes obsolete or upgraded model is available, supplier must:

- Inform the Institute immediately
- Provide upgrade at no extra cost (if feasible)
- Ensure backward compatibility
- Ensure spare parts availability for existing model

6.5 Source Code and Software License

6.5.1 For all software supplied with equipment:

- Must be genuine and licensed
- License must be perpetual (not subscription-based)
- Must be transferable
- Updates during warranty period must be free

6.5.2 Source code (if applicable) should be placed in escrow or provided to Institute for mission-critical applications.

6.6 Environmental and Safety Compliance

6.6.1 All equipment must comply with:

- Environmental regulations (RoHS, WEEE directives)
- Electrical safety standards (IS/IEC)
- CE marking (for imported equipment)
- ISO 9001 certification of manufacturer

6.6.2 Certificates of compliance must be submitted.

6.7 Canvassing and Corrupt Practices

6.7.1 **Canvassing in any form will lead to rejection of bid.**

6.7.2 Supplier must not:

- Offer any bribe, gift, or inducement to Institute officials
- Engage in any corrupt, fraudulent, or collusive practices
- Misrepresent facts or submit false information

6.7.3 Violation will result in:

- Immediate disqualification
- Forfeiture of EMD/Performance Security
- Blacklisting
- Legal action

6.8 Integrity Pact

6.8.1 Bidders must sign an Integrity Pact (Annexure-IX) committing to:

- Not offer bribes or engage in corrupt practices
- Disclose all commissions and payments
- Not collude with other bidders

- Accept Institute's right to investigate

6.8.2 Breach of Integrity Pact will result in termination and blacklisting.

6.9 Blacklisting

6.9.1 Supplier will be blacklisted for:

- Supplying substandard/defective equipment
- False declarations or misrepresentation
- Breach of contract terms
- Corrupt practices
- Repeated poor performance

6.9.2 Blacklisting period: Minimum **3 years**, extendable based on severity.

6.10 Institute's Rights

The Institute reserves the right to:

6.10.1 Accept or reject any or all bids without assigning any reason

6.10.2 Waive minor deviations if found acceptable

6.10.3 Seek clarifications from bidders

6.10.4 Cancel the tender at any stage

6.10.5 Split the order among multiple suppliers

6.10.6 Negotiate with L-1 bidder

6.10.7 Verify all information submitted by bidders

6.10.8 Conduct factory inspection before or after award

6.10.9 Increase or decrease quantity of items

6.10.10 Add or delete items

The decision of the Director, GBPIET shall be final and binding on all matters related to this tender.

SECTION 7: EVALUATION CRITERIA

The evaluation will be done in two stages: **Technical Evaluation** and **Financial Evaluation**.

7.1 Technical Evaluation

Technical bids will be evaluated based on the following criteria:

Sr. No.	Evaluation Parameter	Maximum Marks
1	**Eligibility Criteria** (Pass/Fail)	Qualifying
2	**Financial Capability**	15
	- Average Annual Turnover ₹60-80 Lakhs: 5 marks	
	- Average Annual Turnover ₹80-100 Lakhs: 10 marks	
	- Average Annual Turnover >₹100 Lakhs: 15 marks	
3	**Experience**	20
	- Meeting minimum criteria (Option 1/2/3): 10 marks	
	- Additional similar work >₹50 Lakhs each: 2 marks per work (max 10 marks)	
4	**Past Performance**	15
	- Performance certificates from clients (up to 5 marks each for max 3 clients)	
	- Ratings: Excellent-5, Very Good-4, Good-3 marks	
5	**Technical Compliance**	25
	- 100% compliance with specifications: 25 marks	
	- Minor deviations: Proportionate deduction	
	- Major deviations: Rejection	
6	**Service Support Infrastructure**	10
	- Service center in Uttarakhand: 5 marks	
	- Service center in North India: 3 marks	
	- No service center but commitment to establish: 1 mark	
	- Number and qualification of service engineers: 5 marks	
7	**OEM Credentials**	10
	- OEM with >20 years experience: 5 marks	
	- OEM with 10-20 years experience: 3 marks	
	- ISO 9001 certified: 2 marks	
	- R&D recognition: 3 marks	
8	**Quality of Documentation**	5
	- Completeness of brochures, catalogs, certificates	
	Total Technical Marks	**100**

Minimum Qualifying Marks: 70 out of 100

Only bidders scoring **70 or more marks** in Technical Evaluation will qualify for Financial Bid opening.

7.2 Financial Evaluation

7.2.1 Financial bids of only technically qualified bidders will be opened.

7.2.2 **Evaluation Basis:** Lowest Total Cost (L-1) for all equipment combined

7.2.3 **Total Cost Calculation:**

For Indigenous Supplies:

- Ex-works price of equipment
- Packing and forwarding charges
- Freight/transportation to GBPIET
- Transit insurance
- Installation and commissioning charges
- Training charges
- GST (as applicable)
- **Total = FOR GBPIET Price (including GST)**

For Imported Supplies:

- FOB price (in INR at current exchange rate)
- Freight and insurance (if CIF quoted)
- Customs duty (as applicable, even if exempted)
- Customs clearance and inland transportation (2% of CIF value)
- Installation and commissioning charges
- Training charges
- Indian Agency Commission (if any)
- GST (as applicable)
- **Total = Landed Cost at GBPIET (including all charges)**

7.2.4 Exchange rate to be considered: **Reserve Bank of India's reference rate on the date of Financial Bid opening**

7.2.5 Comparison between indigenous and imported offers will be on the basis of total landed cost at GBPIET.

7.2.6 The bidder quoting **Lowest Total Cost (L-1)** will be selected for award, subject to:

- Technical acceptability
- Commercial acceptability
- Satisfactory clarifications (if any)

7.3 Final Award Criteria

7.3.1 The contract will be awarded to the **Lowest Evaluated Bidder (L-1)** who is technically qualified and meets all eligibility criteria.

7.3.2 However, the Institute reserves the right to:

- Reject L-1 bid if found commercially unacceptable
- Negotiate with L-1 bidder
- Award contract to L-2 bidder if L-1 withdraws or is disqualified
- Split the order among multiple bidders

7.3.3 In case of tie (equal total cost), the following tie-breaking criteria will be applied in sequence:

- Higher technical score
- Higher annual turnover
- More experience (in years)
- Draw of lots

7.3.4 **The decision of the Director, GBPIET shall be final and binding.**

SECTION 8: ANNEXURES

ANNEXURE-I: DOCUMENT CHECKLIST FOR TECHNICAL BID

All documents must be uploaded as a **single PDF file** in the sequence mentioned below. Each page must be numbered and an index must be provided at the beginning.

Sr. No.	Document Description	Submitted (Yes/No)
1	Cover Letter on Company Letterhead	
2	Duly filled and signed Tender Document (all pages)	
3	EMD Proof (UTR Number/Bank Guarantee)	
4	Company Registration Certificate	
5	GST Registration Certificate	
6	PAN Card	
7	Shop & Establishment License (if applicable)	
8	Import-Export Code (if applicable)	
9	Audited Balance Sheets (last 3 years)	
10	CA Certificate for Average Annual Turnover	
11	Work Orders/Completion Certificates (last 5 years)	
12	Performance Certificates from Clients	
13	Non-Blacklisting Declaration (Annexure-III)	

14	Manufacturer Authorization Letter (Annexure-IV) (if dealer)	
15	OEM Undertaking (Annexure-V) (if dealer)	
16	Service Center Details with Address Proof	
17	List of Service Engineers with Training Certificates	
18	Local Office/Representative Details	
19	Compliance Sheet (Annexure-II) for each equipment	
20	Technical Brochures/Catalogs with highlighted specifications	
21	Sample Calibration Certificates (NABL/equivalent)	
22	CE Marking/ISO Certificates	
23	List of Clients/User List	
24	Price List applicable to Educational Institutions	
25	Undertaking (Annexure-VI)	
26	Bank Details (Annexure-VIII)	
27	Integrity Pact (Annexure-IX)	
28	Any other relevant document	

Declaration:

I/We hereby declare that all information provided above is true and correct to the best of my/our knowledge. I/We understand that any false information may lead to rejection of bid and/or termination of contract.

Signature of Authorized Signatory: _____

Name: _____

Designation: _____

Company Seal: _____

Date: _____

Place: _____

ANNEXURE-II: COMPLIANCE SHEET

Instructions:

1. Separate compliance sheet must be provided for each equipment
2. Clearly indicate "Yes" or "No" in the compliance column
3. If "No", provide deviation details and justification
4. Provide page reference to supporting documents
5. Sign and stamp each compliance sheet

Equipment Name: _____

Sr. No.	Parameter	Specified Requirement	Offered Specification	Comply (Yes/No)	Remarks/Deviation	Page Ref.

Signature of Authorized Signatory: _____

Name & Designation: _____

Company Seal: _____

Date: _____

ANNEXURE-III: NON-BLACKLISTING DECLARATION

(On Company Letterhead)

Date: _____

To, The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Declaration Regarding Non-Blacklisting

Dear Sir/Madam,

I/We, **[Company Name]**, hereby declare and confirm that:

1. Our firm/company has not been blacklisted/debarred/banned/suspended by any Central Government/ State Government Department/PSU/Educational Institution or any other organization in India or abroad as on the date of submission of this bid.
2. No legal or criminal case is pending against our firm/company or its directors/partners/proprietor.
3. We have not been involved in any corrupt, fraudulent, or unethical practices in any previous contracts.
4. If any such action is taken against us during the tenure of this contract, we will immediately inform GBPIET.

5. I/We understand that if this declaration is found to be false at any stage, GBPIET has the right to:
    - Reject our bid
    - Terminate the contract
    - Forfeit EMD/Performance Security
    - Blacklist our firm
    - Take legal action

This declaration is made to the best of our knowledge and belief.

Yours faithfully,

Signature: _____

Name: _____

Designation: _____

Company Name: _____

ANNEXURE-IV: MANUFACTURER AUTHORIZATION LETTER

(On OEM's Letterhead)

Date: _____

To, The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Authorization Letter for Tender No.

Dear Sir/Madam,

We, **[OEM Company Name]**, having our registered office at **[Address]**, hereby authorize **[Dealer/Agent Company Name]**, having office at **[Address]**, to participate in the tender process and submit bid on our behalf for **"Supply, Installation & Commissioning of Civil Engineering Laboratory Equipment"** - Tender No.

We confirm that:

1. **[Dealer/Agent Name]** is our authorized dealer/distributor/agent for **[Product/Equipment Name]** in India.
2. They are authorized to:
    - Quote prices on our behalf
    - Negotiate commercial terms

    - Sign contracts
    - Coordinate delivery, installation, and commissioning
    - Provide warranty and after-sales service
3. We will provide full technical support and backup to **[Dealer/Agent Name]** for:
    - Product training
    - Installation and commissioning
    - Warranty service
    - Spare parts supply
    - Technical troubleshooting
4. We will honor all warranty commitments made by **[Dealer/Agent Name]** in this tender.
5. We will be responsible for product quality, performance, and compliance with specifications.
6. This authorization is specifically for the above-mentioned tender and is valid until contract completion.

Yours faithfully,

For [OEM Company Name]

ANNEXURE-V: OEM UNDERTAKING

(On OEM's Letterhead)

Date: _____

To, The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Undertaking for Support and Warranty - Tender No.

Dear Sir/Madam,

We, **[OEM Company Name]**, Original Equipment Manufacturer of **[Equipment Name]**, hereby undertake and confirm that:

1. We will facilitate our authorized dealer/agent **[Dealer Name]** on a regular basis with:
    - Technology updates
    - Product upgrades
    - Technical training
    - Documentation
    - Spare parts
2. We will extend full support for warranty services for the equipment supplied under this tender for the entire warranty period.

3. In case **[Dealer Name]** fails to provide satisfactory warranty service at any time, we will directly provide the service to GBPIET at no extra cost.
4. We will ensure availability of spare parts for the equipment for at least 10 years from the date of supply.
5. We will provide technical support and guidance to **[Dealer Name]** for installation, commissioning, and training.
6. We confirm that the equipment offered meets all technical specifications mentioned in the tender document.

This undertaking is valid for the entire contract period including warranty period.

Yours faithfully,

For [OEM Company Name]

Signature: _____

Name: _____

ANNEXURE-VI: UNDERTAKING BY BIDDER

(On Company Letterhead)

Date: _____

To, The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Undertaking for Tender No.

Dear Sir/Madam,

I/We, **[Company Name]**, hereby undertake and confirm that:

1. We have carefully read and understood all terms and conditions of the tender document and agree to comply with them.
2. All information furnished in our bid is true, correct, and complete to the best of our knowledge.
3. We have visited GBPIET campus and inspected the installation sites and are fully aware of site conditions (or alternatively, we waive our right to claim any compensation for site conditions).
4. We will supply equipment as per technical specifications mentioned in the tender document.

5. We will deliver, install, and commission the equipment within the stipulated time period.
6. We will provide comprehensive on-site warranty for minimum 3 years from date of installation.
7. We will provide adequate training to faculty, staff, and students as specified.
8. We have adequate technical manpower and service infrastructure to support the equipment.
9. We will establish a local office/representative in Uttarakhand within 30 days of award of contract (if not already established).
10. We have not been blacklisted by any government/PSU/educational institution.
11. We will not engage in any corrupt, fraudulent, or collusive practices.
12. We understand that GBPIET reserves the right to reject our bid without assigning any reason.
13. In case of any default on our part, GBPIET may forfeit our EMD/Performance Security and take other actions as deemed fit.
14. The decision of the Director, GBPIET shall be final and binding on us in all matters related to this tender.

Yours faithfully,

Signature: _____

Name: _____

Designation: _____

Company Name: _____

Company Seal:

Date: _____

Place: _____

ANNEXURE-VII: FORMAT FOR PERFORMANCE BANK GUARANTEE

(To be printed on Non-Judicial Stamp Paper of appropriate value as per Uttarakhand Stamp Act)

Bank Guarantee No.: _____

Date: _____

To, The Director G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Performance Bank Guarantee for Tender No.

Dear Sir,

WHEREAS **[Company Name]**, having its registered office at **[Address]** (hereinafter called "the Supplier") has undertaken to supply, install, and commission Civil Engineering Laboratory Equipment to G.B. Pant Institute of Engineering & Technology (hereinafter called "the Institute") under Purchase Order No. _____ dated _____ for a total value of Rs. _____/- (Rupees _____).

AND WHEREAS the said Purchase Order requires the Supplier to furnish a Performance Bank Guarantee for an amount equal to **5% of the Purchase Order value**, i.e., Rs. _____/- (Rupees _____).

NOW THIS BANK GUARANTEE WITNESSETH that we, **[Bank Name]**, having our branch at **[Branch Address]** (hereinafter called "the Bank"), at the request of the Supplier, do hereby undertake to pay to the Institute an amount not exceeding Rs. _____/- (Rupees _____) against any loss or damage caused to or suffered by the Institute by reason of any breach by the Supplier of any of the terms and conditions contained in the said Purchase Order.

2. We, **[Bank Name]**, do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from the Institute stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Institute by reason of breach by the Supplier of any of the terms and conditions contained in the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee.
3. We undertake to pay to the Institute any money so demanded notwithstanding any dispute or disputes raised by the Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
4. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Supplier shall have no claim against us for making such payment.
5. We, **[Bank Name]**, further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of the Institute under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till the Institute certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the Supplier and accordingly discharges this Guarantee.
6. We, **[Bank Name]**, further agree with the Institute that the Institute shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Institute against the Supplier and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the Supplier or for any forbearance, act or omission on the part of the Institute or any indulgence by the Institute to the Supplier or any such

matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

7. This Guarantee shall not be affected by any change in the constitution of the Bank or the Supplier or the Institute, nor shall this Guarantee be affected by any change in the constitution of the Supplier or the Institute by absorption with any other body or corporation and this Guarantee will be available to or enforceable by such body or corporation.
8. Our liability under this Guarantee is restricted to Rs. _____/- (Rupees _____) and will remain in force until **[Date - Warranty Period + 60 days]**.
9. Unless a claim or demand is made on us in writing on or before **[Date - Warranty Period + 60 days]**, all your rights under this Guarantee shall be forfeited and we shall be relieved and discharged from all liabilities thereunder.
10. This Guarantee shall be enforceable at our branch at **[Branch Address, preferably Pauri Garhwal or with clause for enforcement at local branch]**.

Dated this _____ day of _____, 2026.

For [Bank Name]

Authorized Signatory

Name: _____

ANNEXURE-VIII: MANDATE FORM FOR ELECTRONIC FUND TRANSFER

(On Company Letterhead)

Date: _____

To, The Registrar G.B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

Subject: Authorization for Release of Payment through NEFT/RTGS

1. Particulars of the Party/Firm/Company:

Parameter	**Details**
Name of the Firm/Company	
Complete Address	
City	
State	

PIN Code	
Contact Number	
Email ID	
PAN Number	
GST Number	

2. Bank Account Details:

Parameter	**Details**
Bank Name	
Branch Name	
Branch Address	
Branch City	
PIN Code	
Account Type (Savings/Current/Cash Credit)	
Account Number	
IFSC Code (11 digit)	
MICR Code (9 digit)	

(Please attach a cancelled cheque or bank certificate)

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction is delayed or not effected for reasons of incomplete or incorrect information, I shall not hold the Institute responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records.

Signature of Authorized Signatory: _____

Name: _____

Designation: _____

Company Seal:

Date: _____

Place: _____

BANK CERTIFICATION

Certified that the particulars furnished above are correct as per our records.

Bank Stamp:

Date: _____

Signature of Authorized Bank Official: _____

Name: _____

Designation: _____

ANNEXURE-IX: INTEGRITY PACT

(To be executed on Non-Judicial Stamp Paper of Rs. 100/-)

INTEGRITY PACT

Between

G.B. Pant Institute of Engineering & Technology (hereinafter called "the Institute" or "the Purchaser"), represented by **The Registrar**, having office at Ghurdauri, Pauri Garhwal - 246194, Uttarakhand

And

[Company Name] (hereinafter called "the Bidder" or "the Supplier"), represented by **[Name & Designation]**, having office at **[Address]**

Preamble

The Institute proposes to procure **Civil Engineering Laboratory Equipment** through open tender process and the Bidder is willing to offer the equipment.

WHEREAS the Institute values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its procurement activities, and

WHEREAS the Institute requires that its procurements should be conducted in a manner that is fair, transparent, and free from any form of corruption, and

WHEREAS to this end, the Institute has developed and adopted an Integrity Pact to ensure that its procurements are free from corrupt, collusive, and coercive practices,

NOW, THEREFORE, to avoid all forms of corruption by following a system that is fair, transparent, and free from any influence or prejudiced dealings, the parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Article 1: Commitments of the Institute

1.1 The Institute undertakes that no official of the Institute, connected directly or indirectly with this procurement, will demand, take a promise for, or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor, or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organization, or third party related to the procurement, in exchange for an advantage in the procurement process, bid evaluation, contracting, or implementation process related to the contract.

1.2 The Institute will, during the pre-contract stage, treat all Bidders alike, and will provide to all Bidders the same information and will not provide any such information to any particular Bidder which could afford an advantage to that particular Bidder in comparison to other Bidders.

1.3 All the officials of the Institute will report to the appropriate authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

Article 2: Commitments of the Bidder

2.1 The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means, and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commits itself to the following:

2.1.1 The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the Institute, connected directly or indirectly with the procurement process, or to any person, organization, or

third party related to the procurement in exchange for any advantage in the procurement, evaluation, contracting, and implementation of the contract.

2.1.2 The Bidder further undertakes that it has not given, offered, or promised to give, directly or indirectly, any bribe, gift, consideration, reward, favor, any material or immaterial benefit, or other advantage, commission, fees, brokerage, or inducement to any official of the Institute or otherwise in procuring the contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Institute.

2.1.3 The Bidder shall disclose the name and address of agents and representatives and Indian Bidders shall disclose their foreign principals or associates, if any.

2.1.4 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

2.1.5 The Bidder further confirms and declares to the Institute that the Bidder is the original manufacturer/integrator/authorized agent of the equipment and has not engaged any individual or firm, whether Indian or foreign, to intercede, facilitate, or in any way to recommend to the Institute or any of its functionaries, whether officially or unofficially, to the award of the contract to the Bidder, nor has any amount been paid, promised, or intended to be paid to any such individual or firm in respect of any such intercession, facilitation, or recommendation.

2.1.6 The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments they have made, are committed to, or intend to make to officials of the Institute or their family members, agents, brokers, or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

2.1.7 The Bidder will not collude with other parties interested in the contract to impair the transparency, fairness, and progress of the procurement process, bid evaluation, contracting, and implementation of the contract.

2.1.8 The Bidder will not commit any offence under the relevant Indian Penal Code/Prevention of Corruption Act.

2.1.9 The Bidder commits to refrain from giving any complaint directly or indirectly without supporting it with full and verifiable facts.

2.1.10 The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

2.1.11 If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, either directly or indirectly, is a relative of any of the officers of the Institute,

or alternatively, if any relative of an officer of the Institute has financial interest/stake in the Bidder's firm, the same shall be disclosed by the Bidder at the time of filing of tender.

2.1.12 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Institute.

Article 3: Previous Transgression

3.1 The Bidder declares that no previous transgression occurred in the last five years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify the Bidder's exclusion from the tender process.

3.2 The Bidder agrees that if it makes incorrect statement on this subject, the Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Article 4: Sanctions for Violations

4.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the Institute to take all or any one of the following actions:

4.1.1 To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the Bidder.

4.1.2 The Earnest Money Deposit (in pre-contract stage) and/or Performance Security (after the contract is signed) shall stand forfeited either fully or partially, as decided by the Institute.

4.1.3 To immediately cancel the contract, if already signed, without giving any compensation to the Bidder.

4.1.4 To recover all sums already paid by the Institute with interest at the rate of 18% per annum.

4.1.5 To encash the Performance Bank Guarantee.

4.1.6 To cancel all or any other contracts with the Bidder.

4.1.7 To debar the Bidder from participating in future procurement of the Institute for a minimum period of **three years**.

4.1.8 To recover all sums paid in violation of this Pact by the Bidder to any middleman or agent or broker with a view to securing the contract.

4.1.9 To initiate appropriate legal proceedings including criminal proceedings.

4.2 The Institute will be entitled to take all or any of the above actions if the Bidder or any one employed by it or acting on its behalf commits an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

4.3 The decision of the Institute to the effect that a breach of the provisions of this Pact has been committed by the Bidder shall be final and conclusive on the Bidder.

Article 5: Independent Monitor

5.1 The Institute has appointed **[Name & Designation]** as the Independent Monitor for this Pact.

5.2 The task of the Independent Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

5.3 The Independent Monitor shall not be subject to instructions by the representatives of the parties and shall perform their functions neutrally and independently.

5.4 Both parties accept that the Independent Monitor has the right to access all the documents relating to the project/procurement.

5.5 As soon as the Independent Monitor notices, or believes to notice, a violation of this Pact, they will inform the Institute and/or Vigilance Officer.

5.6 The Bidder accepts that the Independent Monitor has the right to access, without restriction, all project documentation of the Institute including that provided by the Bidder.

Article 6: Duration of the Pact

This Integrity Pact begins when both parties have legally signed it. It expires for the Bidder:

- 6 months after the last bid submission deadline, if the Bidder's bid is not accepted
- 3 years after warranty period expiry, if the Bidder's bid is accepted and contract is awarded

Article 7: Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

Article 8: Validity

8.1 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

8.2 This Integrity Pact is subject to Indian Law. Place of performance and jurisdiction is the seat of the Institute.

IN WITNESS WHEREOF, the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of witnesses.

For the Institute:

Signature: _____

Name: The Registrar

Date: _____

Place: Pauri Garhwal

Institute Seal:

Witness 1: Name: _____ **Signature:** _____

Witness 2: Name: _____ **Signature:** _____

For the Bidder:

Signature: _____

Name: _____

Designation: _____

Company Name: _____

Date: _____

Place: _____

Company Seal:

Witness 1: Name: _____ Signature: _____

Witness 2: Name: _____ Signature: _____

For any clarification or query, please contact:

Technical Queries: Dr. B.S Khati, Head of Department of Civil Engineering Email:bhishmkhati007@gmail.com, Phone: +91-7579164401

Commercial/Administrative Queries: The Registrar G.B. Pant Institute of Engineering & Technology Email: registrar@gbpiet.ac.in Phone: +91-9719624248