



## RAJKIYA ENGINEERING COLLEGE AZAMGARH

राजकीय इन्जीनियरिंग कॉलेज देवगाँव, आजमगढ़,

(उ.प्र.), भारत

AN AICTE APPROVED GOVERNMENT ENGINEERING COLLEGE, AFFILIATED TO DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW <http://gecazamgarh.ac.in/>

### Tender Enquiry

Package no. TEQIP-III/2019/UP/reca/74

Ref No: REC/TEQIP-III/2018-19/86

Date: 03/06/2019

To

*Reference to this letter must be mentioned on the envelope containing your bid*

**SUB: Tender enquiry for Digital Triaxial Testing Machine with Geotechnical Analysis Software under TEQIP - III**

Sir,

Bids are invited in sealed envelope as per below mentioned technical specifications of **Digital Triaxial Testing Machine with Geotechnical Analysis Software** –under TEQIP III

**Technical specifications of Digital Triaxial Testing Machine with Geotechnical Analysis Software**

**Load frame:** Microprocessor Based closed loop feedback control 50 KN Capacity

#### **Technical specifications**

- Should be 30 speed load frame.
- Should ensure speed drops within 5% of displacement rate for 30 fixed speeds in a large usable range.
- Should be two pillar type.
- Speed range: between 0.0048mm/min to 6 mm/min with true speed control of up to 5 mm/min.
- Up/down: fast up & down speed of 15mm/min.

- Display: LCD.

**Triaxial Cell:** - Should be capable of testing specimens of 38, 50, diameter and should be supplied with all standard accessories- plain discs (38-50mm dia.)-1 each, Perspex loading pads (38-50mm dia.)-1 each, porous stones (38-50mm dia.)-1 each, Pedestal (38-50mm dia. preferably brass made)-1 each, sheath stretcher (38-50mm dia.)-1 each, rubber sheath (38-50mm dia.)-12 each, sand former (38-50mm dia.)-1 each, top loading pads-plain (38-50mm), O-rings (38-50mm dia.)-8 each, drainage tubes both short and long (38-50mm)-4 each.

**Pressure control System for confining pressure and Back Pressure:** -Constant Pressure System-Oil water two cell Type-with oil pump to maintain the desired pressure, 8 to 10 kg/ cm<sup>2</sup> pressure range with accuracy between  $\pm 1\%$  to  $\pm 2\%$  and preferable resolution of at least 0.1 kg/ cm<sup>2</sup>, should allow increasing or decreasing the pressure within the specified range, Operation on 220V, 50 Hz, Single Phase AC Supply.

**System for automatic measurement of volume change:** - Should have a volume chamber-100ml capacity and bottom chamber-100ml capacity, with change over valve to allow the internal pistons to move in opposite direction in case the volume exceeds 100cc. Accuracy between 1-2 ml. Should be supplied with push fittings (4 mm). Should be usable with LVDT.

- **Data Acquisition System with digital Indicator and electronic kit**

- ✦ Display with four channel: - Alpha numeric display for all simultaneous channel.
- ✦ Load cell Capacity: - 10kN (with resolution: 0.01kN) – 1No.
- ✦ Displacement Transducer: -LVDT 0 to 20mm range - 1No.
- ✦ Pore Pressure Transducer: - 20 Kg/cm<sup>2</sup> capacity, (maximum overload capacity up to 150% (of rated)- it should be specified while quoting), resolution – 0.01 Kg/cm<sup>2</sup> - 1No.
- ✦ Robust, stand alone data logger with 16 bit resolution and inbuilt LCD display.
- ✦ Key pad for Data logger Configuration.
- ✦ Inbuilt Real Time Clock for real time operation& display in stand-alone mode.
- ✦ Configurable Windows Based Software.
- ✦ Capable of displaying different parameters in different channels simultaneously.
- ✦ Power supply - 230V, 50Hz ❖ Internal storage capacity of 2MB.

- ✦ Can store direct to PC.
- ✦ RS 232 communication.

- **Analysis software:** - Software should also be supplied along with the whole setup for analysing the standard three types of Triaxial tests. UU, CU, CD
- **Compatible computer and lesser jet printer blank white.**

### **Terms and conditions.**

1. The quotation should reach to the Coordinator, TEQIP-III office, RAJKIYA ENGINEERING COLLEGE AZAMGARH, Uttar Pradesh at given timing by speed post/courier.
2. Should attach GST proof.
3. Should be govt. Registered company. Proof should be attached
4. Should attach last 3-year balance sheet copy with the proof of the ITR copy 5. Should attach earlier PO copies.
6. Should not be blacklisted from the govt. Sectors/PSU/institutes.
7. Supplier(s)/Bidder(s) should be manufacturer/distributor/dealer/authorized firm of the mentioned product(s)/goods and should submit the copies of ST No., company/firm registration or equivalent registration with the Central/State Government of India if any. Copies of OEM / Latest authorized dealership certificate for respective items should be enclosed.
8. If required, we can call for the pre demo before finalizing the order to check the technical specification and the quality.
9. The whole items of packages must be quoted.
10. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
11. Conditional Bid(s)/Quotation(s) will not be accepted. Any breach of term(s) of contract at any stage and/or non-execution of firm Purchase Order by the supplier(s)/Bidder(s) shall be lead to forfeiture of Earnest money deposit(s).
12. Right to accept or reject any bid or all bids without assigning any reason is reserved with the Institute (or Purchaser).

13. The Bids should reach the institute's TEQIP Coordinator, TEQIP-III office, Rajkiya Engineering College, Azamgarh, Vill: Akbalpur, Post: Devgaon, Azamgarh - 276201 on or before **17.06.2019 up to 4pm**. The institute will not be responsible for any postal delay. Bids Received after due date and time will not be considered.
14. It is essential to indicate service condition of the course material being quoted by you. If service condition is/are not indicated, it will be assumed that it is as per the tender enquiry.
15. All bids will be opened on 18.06.2019 at 2.30 p.m. in the presence of representative of the vender if present.
16. All prices quoted are to be recorded as per the format given in Annexure -I.
17. The prices quoted are to be handwritten/typed on the letter head of the firm/company.
18. **Installation and Demo required at the time of delivery.**
19. **Three-year warranty and an interactive multimedia based system with maintenance procedures, basic operations of the machines and troubleshooting activities.**
20. **Payment: (a) 80% Payment will be done after delivery, installation and demo.**  
**(b) Rest 20% Payment will be done after 90 days (from the day of installation and demo) of satisfactory performance of equipment.**

Mr. Amit Kumar

Copy to:

1. Director Office, Rajkiya Engineering College Azamgarh.
2. TEQIP, Coordinator, Rajkiya Engineering College Azamgarh.
3. Asst. Registrar, Rajkiya Engineering College Azamgarh.
4. Website In-charge ,REC Azamgarh.
5. TEQIP file.

**Annexure -I PRICE QUOTE FORMAT**

<b>Sr.No.</b>	<b>Equipment name</b>	<b>Technical Specification</b>	<b>Q ty</b>	<b>Unit Cost</b>	<b>GST</b>	<b>Total price with GST</b>

**Terms and Conditions:**

Validity of Bid

(If not specified then the terms and conditions as mentioned in bid will be applicable.)

Date

Signature

Place

Name of Firm/ Company

(with stamp)