



NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR

(An Autonomous Institute of National Importance Established by the Act of Parliament)

OFFICE OF THE COORDINATOR TEQIP III

Tel: +91-194-2422032 Extn: 2818, 2814, 2806

Email: teqip3@nitsri.net Website: <http://new.nitsri.ac.in>

No: NIT/TEQIP/20/423.

Dated: 11-08-2020

Corrigendum

With reference to the Invitation for Bids for the supply of Triaxial Equipment vide IFB No. TEQIP-III/2020/nits/303 Dated 20-07-2020, the commercial and technical specifications have been revised and can be found at Annexure I and II.

Handwritten signature and date: 11/8/2020

**Nodal Officer Procurement
TEQIP III**

Copy to :

1. Prof B A Mir, Professor Civil Engineering Department.
2. Chairperson CSC with the request to upload the corrigendum on Institute Website.
3. Concerned File.



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Annexure I

Qualification Criteria:

1. The supplier should have an Average turnover of Rs. 05 crores in the last 3 years.
2. Performance certificate of Similar order executed in NIT's, IIT's and Govt R&D's from last 03 years to be furnished along with quotation

Bid Security/ Tender Fee:

In view of the COVID 19 Crises, the Bid Security/ Tender Fee can also be transferred through NEFT/ RTGS in the bank account details given below:

Account Name: TEQIP III NIT Srinagar

Account No.: 0391040100011025

Bank Name: J&K bank

Branch: REC Srinagar

IFSC Code: JAKA0RECSGR

MICR Code: 190051054

The payment receipt may be sent to the office of TEQIP III through mail (teqip3@nitsri.ac.in).

Annexure II

MODIFIED SPECIFICATIONS AFTER PRE-BID CONFERENCE

Name of the Equipment: Fully Automatic Static Triaxial System

Ref. Standards: BS1377-7:1990, BS 1377-8:1990, BS EN ISO 17892-7:2017, BS EN ISO 17892-8:2018, BS EN ISO 17892-9:2018, ASTM D2166-13, D2166-16, D2850-03, D2850-15, D4767-95, D4767-11, D7181-20

Description of the specifications:

Fully Automatic Static Triaxial System [with computer controlled Load Frame applicable for testing 100 mm dia, soil sample, Fully automated Hydraulic Pressure-Volume Controller] consisting of:

Fully Automatic Triaxial Testing System should be capable of providing fully automatic total and effective Triaxial testing for samples up to **100 mm diameter** Soil Sample including:

- Consolidated Drained (CD)
- Consolidated Undrained (CU)
- Unconsolidated Undrained (UU)
- Stress Path tests &
- Slow Cyclic Testing up to 0.1 Hz (dependent on Amplitude)

The Fully Automatic Static Triaxial System should consist of the following:

1. Load Frame

- 50 kN capacity for testing of soil samples up to 100 mm diameter
- Closed loop control of displacement and load
- Integrated TouchScreen Colour Display for Standalone use
- USB or Ethernet Interface for PC control
- Inbuilt minimum 4 channel data-logger with 4GB or more data storage
- Tabular and graphic display of sensor readings
- User selectable speed from 0.000001 mm/min to 75.00000 mm/min.
- Platen travel 100mm, Vertical Clearance 1000 mm, Horizontal Clearance 380 mm.

2. Fully automated Hydraulic Pressure-Volume Controller:

- Maximum pressure: 3000 kPa or more
- **Pressure Accuracy/resolution: 0.25% FRO / 0.1 kPa**
- Volume change capacity: 200 ml or more
- **Volume Accuracy/ resolution: 0.25% FRO/ 0.001 cc**
- Integrated TouchScreen Colour Display for Standalone use
- USB or Ethernet Interface for PC control
- Two independent channels, each with Pressure and Volume control and feedback for cell and back pressure control
- Two additional External Channels to allow for secondary pressure measurements
- Automatic Solenoid Back Pressure valve to completely automate testing from start to finish with no user intervention
- Inbuilt data-logger with 4GB or more data storage
- Tabular and graphic display

3. Triaxial Cell with sample preparation accessories for 100 mm dia samples

- Stainless steel lo friction loading ram
- Five inlet/outlet ports with zero volume change valves
- Hard anodized for increased corrosion protection
- Transparent acrylic chamber

- Air bleed screw for efficient de-airing
- Compatible with quoted load frame
- Possibility to be used with internal submersible load cells
- Facility for Interchangeable pedestals and top caps for different sample sizes (supplied separately)
- Supplied with 100mm top cap and base pedestal and sample preparation kit
- **Sample preparation kit should include the following for 100mm dia samples:**
 - Split former (for non-cohesive samples)
 - Split Mould (for cohesive samples)
 - 40 membranes
 - 1 membrane stretcher
 - 20 O rings
 - 1 O ring placing tool
 - 4 porous stones
 - 2 base discs

4. Sensors with mounting accessories

- Load Cell: 10 kN, Non-repeatability: 0.01% Full Scale
- Strain Transducer: 50 mm, Non-linearity: 0.01% Full Scale
- Pore Pressure Transducer with deairing block: 3000 kPa, for cell and pore pressures each

5. Water distribution Panel and Deaired water system

De-Airing System of 15 or more litres capacity with suitable vacuum pump and 2 way water distribution panel with pressure gauge for independent check of pressures

6. PC: 24 inch ALL in One PC i5 8th Gen, 8GB Ram [upgradable to 16 GB], 256SSD and 1TB HDD with Triaxial Software Module with following features:

- Cell / Back pressure saturation ramp
- B-Check
- Isotropic Consolidation
- UU, CU, CD & Effective Stress Triaxial Testing
- Single/Multi stage tests
- Tests automatically stopped at user defined criteria
- Automatic docking and undocking with sample at start and end of test.
- Live Tabular display of logged and calculated data
- Live Graphical display of logged and calculated data
- User defined views / graphs / tables
- Standard predefined presentation reports
- Export of data to Excel or Paste to clipboard
- UPS for PC-All in One- 1KVA

7. Following should be included with the Triaxial system

- **One week training to be provided after the installation.**
- **Calibration Certificate from NABL accredited lab**

