



Women Institute of Technology, Sudhowala, Dehradun, New Uttarakhand  
Technical University campus P.O. Sudhhowala Premnagar Dehradun

## INVITATION LETTER

Package Code: TEQIP-III/2019/UK/wits/165

Current Date: 18-Jan-2020

Package Name: WIT/CE New/002

Method: Shopping Goods

To,

Sub: INVITATION LETTER FOR WIT/CE New/002

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Advance transportation and geotechnical Lab	1	WIT New UTU Campus P.O. Sudhhowala Premnagar Dehradun	

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Quotation**

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **90**days after the last date of quotation submission.
6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which
  - 6.1 are properly signed; and
  - 6.2 Confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
  - 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
  - 8.2 *The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.*
9. Payment shall be made in Indian Rupees as follows:

Payment Description	Expected Delivery Period (in Days)	Payment Percentage
Satisfactory Delivery & Installation	30	100

10. Liquidated Damages will be applied as per the below:  
 Liquidated Damages Per Day Min %: N/A  
 Liquidated Damages Max %: N/A
11. All supplied items are under warranty of **12** months from the date of successful acceptance of items and AMC/Others is .
12. You are requested to provide your offer latest by **04:30** hours on **03-Feb-2020**.
13. Detailed specifications of the items are at Annexure I.

14. Training Clause (if any) **yes**
15. Testing/Installation Clause (if any) **yes**
16. Performance Security shall be applicable: **0%**
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **Women Institute of Technology, Sudhowala, Dehardun, New Uttarakhand Technical University campus P.O. Sudhhowala Premnagar Dehardun**
19. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

## **Annexure I**

<b>Sr. No</b>	<b>Item Name</b>	<b>Specifications</b>
1	Advance transportation and geotechnical Lab	as per list attached

1. **Direct Shear Test App.**, as per IS: 11229, 2720 (Part XIII), Motorized with single speed. The apparatus consists of: Loading Unit with V-strips on which shear box housing rests, loading yoke with direct and lever system for applying normal load to the capacity of 8 kg/cm<sup>2</sup>, fixtures for proving ring, brackets for holding consolidation and strain dial gauges, lead screw for application of shear stress. Complicated counter balancing arrangement has been dispensed with and the unit is provided with pre-calibrated load yoke, shear box assembly for square specimen size 60 x 60 x 25mm, Two halves of shear box, Plain gripper plates –2 nos., Perforated gripper plates –2 nos., Porous stones –2 nos., Top loading pad –1 no., Shear box housing, accommodates the shear box assembly. Complete with two ball roller strips –1 no., Specimen cutter, for cutting 60 x 60 x 25mm specimen from larger sample –1 no., Set of weights to give normal stress of 3 kg/cm<sup>2</sup> through lever –1 set, 0.05 kg/cm<sup>2</sup> –4 nos., 0.1 kg/cm<sup>2</sup> –1 no., 0.2 kg/cm<sup>2</sup> –1 no., 0.5 kg/cm<sup>2</sup> –3 nos., 1.0 kg/cm<sup>2</sup> –1 no. (Supplied without Proving Ring & Dial Gauge)

2. **Permeability Apparatus**, As per IS: 2720 (Part - XVII). The apparatus consists of : Gunmetal mould, 100mm dia x 127.3mm high x 1000ml volume, Extension collar 100mm dia. x 60mm high, Drainage base plate with a recess for a porous stone and with an outlet valve, Metallic clamping ring, Drainage cap (Top plate with a recess for a porous stone and fitted with an inlet valve and an air release valve), Dummy plate to serve as a false bottom curing compaction, Porous stone for drainage base plate, Porous stone for drainage cap, Set of three glass stand pipes approx. 6 mm dia., 10mm dia. and 20mm dia. mounted on a stand, 3 meter long rubber connecting tube with pinch cock.

Overhead tank (for Constant Head Test), made of G.I. Sheet., approx 37.5cm dia and approx 1 meter high. Fitted with water indication pipe and wooden meter scale. Tank must be supplied without stand.

3. **Lab Vane Shear Test App**, Motorized. Consists of a torque head adjustable in height by means of a lead screw rotated by a drive wheel to enable the vane to be lowered into the specimen. Rotation of the vane is done through motor, which operates a worm gear arrangement turning the upper end of a calibrated torsion spring. The vane shaft is attached through the hollow upper shaft to a resettable pointer, which indicates the angle of torque on a dial graduated in degrees. The dial reading multiplied by spring factor gives the torque. Size of specimen mould is 38mm dia x 75mm high. A set of springs, one each of approx. 2 kg-cm, 4kg-cm, 6kg-cm and 8kg-cm must be provided.

4. **Compression Testing Machine** , 2000 kN Capacity, Electrically Operated pumping unit fitted with three pressure gauges, i.e. 0-500, 0-1000, 0-2000 kN capacity, separate valves are provided for each pressure gauge. Hand pump is also provided for operation during power failure. Channel Type load frame with chrome plated piston for rust free operation.

5. **Laboratory C.B.R. Apparatus**, As per IS: 2720 (Part XVI), motorised. It consists of Box Type (Covered Body type) Load frame 50 kN capacity, complete with Mild Steel mould 150mm dia x 175mm high, 2.6 & 4.89 kg mild steel rammer, 2.5 kg annular & slotted weight, Aluminium tripod, Penetration piston, Brass perforated plate with stem and lock nut, cutting collar and Circular spacer disc with detachable handle.

6. **Consolidation Test Apparatus**, as per IS: 2720 Part XV. Single Cell Model. It comprises of a loading

frame having capacity of 20 kg/cm<sup>2</sup> with a loading yoke and lever arm complete with counter balancing adjustments. A fixed ring consolidation cell for a 60mm dia. x 20mm thick specimen, complete with two porous stones, pressure pad (perforated), cutting ring and water reservoir with tubing and connector is provided. A set of weights is provided to give a stress of 10 kg/cm<sup>2</sup> on a 60mm dia. specimen, comprising: 7 nos. 0.05 kg/cm<sup>2</sup>, 5 nos. 0.1kg/cm<sup>2</sup>, 6 nos. 0.2kg/cm<sup>2</sup>, 6 nos. 0.5kg/cm<sup>2</sup>, 5nos. 1.0kg/cm<sup>2</sup>. Supplied should complete with Dial Gauge 0.002 x 5mm travel.

### 7. Triaxial Shear Test App

(a) Load frame, Motorized, Capacity 50 kN Housing type model, all the mechanical parts, gears and motor are covered. Two tension rods are fixed to the main body. A strain dial gauge bracket moves up and down on one of the tension rod can be locked at any desired position. The tension rods are threaded at the top and an adjustable bracket can be located and secured in position over the entire threaded length of pillars. A rotating proving ring adaptor is provided in the centre of the bracket on which the proving ring can be mounted. The load applied is achieved by the upward movement of the load screws on which the loading platen is mounted. The load screw is secured against rotation by the sliding key. The motor with a gear box is coupled with clutch. The clutch is operated by a hand lever to engage or disengage hot drive. Gear box has been designed to deliver 6 rates of strain (Speeds are 1.25mm/min, 0.25mm/min, 0.05mm/min, 0.01mm/min, 0.002mm/min & 0.004mm/min. A forward –off –reverse switch is provided on the front panel.

(b) **Triaxial Cell**, for 38 mm dia. x 76 mm high specimen for lateral pressure upto 10 kg./cm<sup>2</sup> ( 0 –150 ) psi. Supplied complete with a pair of plain Perspex disc 38mm dia., pair of porous stones 38mm dia., a Split Type Mould for 38mm dia. specimens, a sheath Stretcher and four rubber 'O' rings.

(c) **Lateral Pressure Assembly**, 10 kg/cm<sup>2</sup>, with pressure gauge and foot pump

(d) **Pore Pressure Apparatus**, for measurement of low negative and positive pore pressures, high pore pressures upto 10 kg/cm<sup>2</sup>. Supplied without glass burette & mercury.

(e) **Self Compensating Constant Pressure System** (Oil / Water Type), pressure range 10 kg/cm<sup>2</sup>, rotated through reduction gear. Suitable for operation on 220 Volts, Single Phase power supply.

8. **Marshal Stability Test Apparatus** (Standard 4") The test is applicable to hot mix designs using bitumen and aggregates up to a maximum size of 25 mm. In this method, the resistance to plastic deformation of cylindrical specimen of bituminous mixture is measured when the same is loaded at periphery at 5cm per min.

The Apparatus should consists of:

- a) A loading unit motorized, capacity 50 kN with two telescopic pillars and an adjustable cross head. Limit switches are fitted inside to control upward or downward movement of the pillars. On off reversing switch and indicator lamps are on the front side while a hand

wheel to manually move the pillars is on the right. The load frame has fixed speed of 5.08cm per minute, operated on 230 volts AC.

- b) One number Compaction pedal with specimen mould holder.
- c) 2 nos. Compaction Rammers, 4.5 kgs weight and free fall 457 mm.
- d) One no. breaking head assembly with provision to fix dial gauge (flow gauge).
- e) 3 nos. Specimen moulds 101.6mm I.D. x 76mm high with base plate and extension collar, made of mild steel.
- f) One no. specimen extraction kit, consists of one each load transfer bar, steel ball, specimen extracting plate.
- g) Compression type Proving Ring capacity 25 kN.
- h) A dial gauge 0.01 x 25 mm.

9. **Relative Density Apparatus**, as per IS: 2720 (Part XIV). The apparatus consists of: Vibrating Table with a deck size of 750mm<sup>2</sup>. Frequency is 3600 vibrations/min., under a load of 115 kg, with a fixed amplitude. Cylindrical unit weight mould of 3000ml capacity, complete with guide sleeves and clamp, surcharge weight with base plate and handle. Cylindrical unit weight mould 15000ml capacity, complete with guide sleeves and clamp, surcharge weight as above. Calibration Bar 75mm x 300mm x 3mm. Dial Gauge Holder. Without Dial Gauges

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10. **Soil Hydrometer**, as per IS: 2720 (part IV) range 0.995 to 1.030, with Hydrometer Jar made of borosilicate glass.

11. **Los Angeles Abrasion Testing Machine**, as per IS: 10070. For determination of the resistance to wear of small size aggregates and crushed rocks. The machine consists of a hollow cylinder mounted on a sturdy frame on ball bearings. A detachable shelf which extends throughout the inside length of the drum catches the abrasive charge and does not allow it to fall on the cover. The drum is rotated at a speed of 30-33 RPM by an electric motor through a heavy duty reduction gear. Motor is suitable for operation on 440 volts, 3 phase, A.C. supply. The unit should be supplied complete with a tray for collection of the material with abrasive charge.

**FORMAT FOR QUOTATION SUBMISSION**

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To: \_\_\_\_\_  
\_\_\_\_\_

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of \_\_\_\_\_ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No. \_\_\_\_\_