

## INVITATION FOR QUOTATION

TEQIP-III/2018/iotg/Shopping/19

18-Sep-2018

To,

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### Sub: Invitation for Quotations for supply of Goods

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	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Compaction test Apparatus (Light & Heavy compaction)	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
2	Compression Testing Machine	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
3	Flash Point (Closed) - Pensky-Martens type apparatus	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	YES

4	Los Angeles Abrasion Testing	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
5	Ring and Ball Apparatus	5	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
6	Tensile Strength Test for Concrete	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
7	Triaxial Test Apparatus- Electronic with data acquiring facility	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
8	Universal Permeability Apparatus	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes
9	Vacuum Pump	1	30	The Director, Institute of Technology, Gopeshwar Kothiyalsain, Chamoli, Uttarakhand-246424	yes

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, initialing, 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 **30** 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.

6.3 Preference will be given to ISO 9001:2015 certified Manufacturer/suppliers, who can ensure the manufacturing of the machine as per the required testing standards/BS/BIS/ASTM standards and within the specified tolerance limits.

6.4 Must Submit compliance certificate (items wise) technical data sheet must be attached.

6.5 Bidders should provide details of service center and information on service support facilities that would be provided after the warranty period.

6.6 The bidder should furnish detailed technical description and original literature of the instruments.

6.7 Manufacturer should have trained and qualified customer support staff with ample experience in the required field. The details of the same should be provided by the customer.

6.8 Bidders should give undertaking regarding installation / commissioning, training/ demonstration and after sales maintenance service of the instruments.

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:

**Delivery and Installation - 0% of total cost**

**Satisfactory Acceptance - 100% of total cost**

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **14:30** hours on **08-Oct-2018** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **yes**

14. Testing/Installation Clause (if any) **yes**

15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

16. Sealed quotation to be submitted/ delivered at the address mentioned below,

The Director, Institute of Technology, Gopeshwar, Kothiyalsain, Chamoli-246424, Uttarakhand

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

### Annexure I

Sr. No	Item Name	Specifications
1	Compaction test Apparatus (Light & Heavy compaction)	As per IS: 2720 (Part 7 & 8) Equipment must be automatic type motor driven with two different rammers of 2.6 Kg and 4.9 Kg for light and heavy compaction in soil in 100mm and 150 mm dia moulds. Mild steel moulds to be supplied along with the equipment. The of weight should be adjustable to 310mm or 450 mm height with locking arrangement. The equipment must have provision to set number of blows per test at the beginning of each test. Must be suitable to work on 220V, 50 Hz, Single phase AC supply.
2	Compression Testing Machine	<p>The testing machine should conform to IS 516 and IS: 14858.</p> <p>Capacity: - 2000 kN. The accuracy of the testing machine shall be such that the percentage of error for the loads within the proposed range of use of the testing machine shall not exceed <math>\pm 1.0</math> percent of the indicated load. The machine should have 2% overload facility to calibrate the machine up to full capacity.</p> <p>Maximum Distance between Side Platens: - 340 mm  Maximum Clearance between Platens: - 370 mm  Platen Size: - 220 to 223 mm  Piston Stroke: - Between 48-52 mm  Piston Diameter: - Around 222 mm  Specimen to be tested: - 150mm cube, 100mm cube, 150mm diameter cylinder and 100mm diameter cylinder and standard bricks.  Least Count (resolution) of load measuring device-0.1 kN  Platens: - Should be suitable for testing cubes and cylindrical specimens  Electronic Hardware: - Microprocessor based controls with pace rate controll, data storage capacity- 2000 records, digital display and facility to transfer data to PC using Ehternet/USB/Serial</p> <p>The following information shall be clearly and indelibly marked on the machine: - Name of the manufacturer, date of manufacturing, and serial number. The machine should be provided with following items also: - Platen for brick: - To accommodate the standard size bricks  Flexure Strength Measurement: - Flexure Test Attachment  100kN Capacity  Strain measurements: - Both Axial and Lateral  Measurement, the machine should have an option of measuring</p>

		<p>the strain on the sample. Displacement measuring device including compressometer to measure the compression and extensometer to measure lateral expansion of the sample from which the strains can be calculated should be provided. Moulds of standard size 15cm side cubes (5 nos) and standard cylindrical mould of 15 cm dia and 30 cm height (5 nos) Moulds of 70.6 mm side cube (5 nos) for compressive strength of cement</p>
3	Flash Point (Closed) - Pensky-Martens type apparatus	<ul style="list-style-type: none"> <li>• The apparatus must be in compliance with IS:1209, IS:1448(Part 21), ASTM D93, ISO 2719 and DIN 51758.</li> <li>• The apparatus must be supplied with Oil Cup made of brass fitted with a thermally insulated handle and a shutter opening mechanism for easy removal of cup lid by rotating the handle to disengage the cams.</li> <li>• The apparatus must have Electrical Heating with test jet and electric heater with energy regulator.</li> <li>• The apparatus must be suitable for operation on 220 V, 50 Hz, single phase AC supply.</li> </ul>
4	Los Angeles Abrasion Testing	<p>The testing equipment must be in compliance with IS : 10070 The machine should consist a hollow cylinder mounted on a sturdy frame on ball bearings, detachable shelf which extends throughout the inside length of the drum and catches the abrasive charge and does not allow it to fall on the cover. The drum should rotate at a RPM of 30-35 by an electric motor through a heavy duty reduction gear. The equipment should be suitable to operate on 415V, 3 phase, 50 Hz AC supply. The equipment must be supplied with a tray for collection of material and abrasive charge consisting of a set of 12 hardened steel balls of 48 mm dia.</p>
5	Ring and Ball Apparatus	<ul style="list-style-type: none"> <li>• The ring and ball apparatus must be supplied for determining the Softening point of bituminous material as per IS:1205, ASTM D 36, E 28, IP 198, IP 58, AASHTO T53, BS:2000, EN 1427.</li> <li>• The test apparatus must be compact and user friendly supplied with a magnetic stirrer with heating facility and digital display of temperature.</li> <li>• The heating should be controlled and adjusted through integral PID.</li> <li>• The equipment must be supplied with Tapered rings(2 Nos), Ball Centering Guide(2 Nos), Steel balls of 9.5 mm dia(2 Nos), Ring Holder(1 No) and Electric Heater(Hot Plate)( 1 No)</li> </ul>

6	Tensile Strength Test for Concrete	It must conform to IS:516 and IS:14858 (2000) Digital Compression Testing Machine of Capacity 2000 KN having least count of 0.1 KN Maximum clearance between platens : 370mm Maximum distance between side platens : 340mm Platen Size : 222 mm (Dia), Piston Dia : 222.2 mm and Piston Stroke : 50mm along with Split Cylinder Tensile Test attachment for 150mm Cube & 150mm dia x 300mm long cylinder to be used in DCTM 2000 KN along with brick platen 320 x 220mm.
7	Triaxial Test Apparatus- Electronic with data acquiring facility	As per IS-2720 (Part-XII and Part XI) Load Frame: - Motorized, with multy speeds should be between 0.0048 mm/min to 6 mm/min with true speed upto 5mm/min), should be suitable for Triaxial, UCS and CBR, two pillar type with sliding top load bracket allowing locking at any desired height, the loading part should be detachable form the main unit, with digital Led Display with Microprocessor Based Closed loop feedback control , operation at 220 volts, 50Hz, single phase supply Specimen size : - 38mm, 50mm, 75mm & 100mm diameter Triaxial Cell: - Should be capable of testing specimens of 38, 50, 75 and 100mm diameter and should be supplied with all standard accessories- plain discs (38-100mm dia.)-1 each, Perspex loading pads (38-100mm dia.)-1 each, porous stones (38-100mm dia.)-1 each, Pedestal (38-100mm dia. preferably brass made)-1 each, sheath stretcher (38-100mm dia.)-1 each, rubber sheath (38-100mm dia.)-12 each, sand former (38-100mm dia.)-1 each, top loading pads-plain (38-100mm), O-rings (38- 100mm dia.)-8 each, drainage tubes both short and long (38-100mm)-4 each. Pressure control System: -Constant Pressure System-Oil water 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. Digital Indicator/

		<p>Display: - Alpha numeric display for all simultaneous channel, operation on 220V, 50Hz, Single Phase Load cell Capacity: - 10kN (with resolution : 0.01kN) Displacement Transducer: -LVDT 0 to 20mm range 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> Provide desktop to attach with the equipment for output data.</p>																		
8	Universal Permeability Apparatus	<p>As per IS 2720 (Part 17) and IS 11209 For testing soil with permeability in the range of 10<sup>-3</sup> to 10<sup>-7</sup> cm / sec and maximum particle size of 10 mm The equipment must be supplied with : Stand with three glass tubes of 6 mm, 10 mm and 20 mm dia approx. Metallic Mould 100 mm dia x 127.3 mm height, 1000 ml volume. Extension Collar 100 mm dia x 60 mm height. Drainage Base Plate with a recess for Porous Stone and an Outlet Valve. Metallic Clamping Ring Drainage Cap with recess for a Porous Stone and fitted with Inlet Valve and Air Release Valve. Dummy Plate to serve as False Bottom during compaction. Porous Stone for Drainage Base Plate. Porous Stone for Drainage Cap Rubber Connection Tube 3m long, with Pinch Cock Overhead Tank required for the constant Head method made of steel, approx. 37.5 cm dia and 1m high. It should be provided with an inlet port at the top, six outlets at the bottom with cocks, air inlet and water filling tube at the top. An arrangement to indicate the water level is also to be provided. Optional accessories – Rammer 2.6 kg X 310 mm controlled fall Rammer 4.9 kg X 450 mm controlled fall</p>																		
9	Vacuum Pump	<p>1. 100% Oil Free Diaphragm Vacuum/Pressure Pump, portable, Double Head, complete in all respect as per following approximate specifications. SPECIFICATIONS</p> <table border="0"> <tr> <td>Head</td> <td>Double</td> <td>Free Air</td> </tr> <tr> <td>Displacement</td> <td>75 ltrs./Min.</td> <td>Max. Vacuum</td> </tr> <tr> <td>22" Hg</td> <td>Max. Pressure</td> <td>40 PSIG</td> </tr> <tr> <td>H.P / Phase</td> <td colspan="2">1/4 / Single Phase</td> </tr> <tr> <td>Dimension</td> <td colspan="2">12 (h) x 5 (w) x 8 (l)</td> </tr> <tr> <td>Weight</td> <td colspan="2">12 kg approx.</td> </tr> </table>	Head	Double	Free Air	Displacement	75 ltrs./Min.	Max. Vacuum	22" Hg	Max. Pressure	40 PSIG	H.P / Phase	1/4 / Single Phase		Dimension	12 (h) x 5 (w) x 8 (l)		Weight	12 kg approx.	
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**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)
<b>Total Cost</b>							

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: \_\_\_\_\_