



THE NATIONAL INSTITUTE OF ENGINEERING

(An Autonomous Institution)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE-III

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Date: 07-07-2018

Invitation for Quotations

Quotations are invited for the procurement of the following equipments under TEQIP– III

1. Equipment: Civil Lab Equipments, Qty- 1

Sr. No	Item Name	Specifications
1	Digital tile flexural testing machine	<ul style="list-style-type: none">•Perform on Modulus of Rupture (MOR)testing, Bonding testing, Shear testing•Capacity:- 20KN (2 Ton/ 2000kg), •For the Tile size up to 600mm x 600mm maximum and minimum of 300mm x 300mm •Type:- Bench Top / Digital,•Testing Area :- Tension & Compression above moving cross-head, •Horizontal Clearance:- 300-600mm •Vertical Clearance:- 914mm, •Limit switches :- Adjustable, •Cross-head travel:- 610mm •Cross-head speed range :- 0.5-50mm/min, •Cross-head speed ion:- 0.1% increment of speed range, • Speed Accuracy:- +/- 1% , •Digital speed display :- English, •Load weighing accuracy:- +/-0.5% of indicated load •Ranges:- 100 % of load cell in use, •Auto overload protection :- Standard
2	Flexural Attachment to 300 Ton digital microprocessor controlled machine	Flexural Attachment to 300 Ton Digital Compression Testing Machine with microprocessor controlled machine
3	Lateral Extensometer (Digital)	This equipment is for the determination of lateral extension of 150 mm dia x 300 mm high cement concrete cylinders while testing them in compression. The extensometer consists of two movable frames pivoted at one end. A dial gauge measures the lateral extension, and a removable spacer strip is for the initial setting of the dial gauge. Mounting of extensometer on the specimen is with the help of screws. Supply complete with dial gauge digital 0.002mm x 5mm
4	Longitudinal Compressometer (Digital)	This apparatus is used for determination of the strain and deformation characteristics of cement concrete cylindrical specimens of 150 mm dia x 300 mm length. The Compressometer consists of two frames for clamping to the specimen by means of five tightening screws with hardened and tapered ends. Two spacers hold the two frames in position. An adjustable pivot rod rests on pivot screws. A spring enables the pivot rod to remain in contact with pivot screws. The ball chain is for adjusting the tension of the spring. A dial gauge, fixed to a bracket, fitted to the top frame, is used for taking deformation measurement. Supplied complete with dial gauge digital 0.001 x25 mm.
5	Proving Ring as per IS 4169 with Dial gauge with calibration chart	<ul style="list-style-type: none">•Suitable for calibration of Cube testing machines, Universal testing machines etc...•Capacity : 2000kN (200 Ton) •Accuracy: Class-1 as per IS:4169-1988, certified by National Physical Laboratory •The rings are supplied complete with

		dial gauge and Works Calibration Chart •Proving ring should be integral type viz. the loading (outside) bosses are forged integral with the ring body. •To ensure that there is no possibility of abutment shift and consequent loss of accuracy in reading. •Repeatability in the Proving Ring is as stipulated in IS:4169
6	Pullout testing equipment	•Used for determining the pullout strength of hardened concrete in test specimens or structures by measuring the force required to pull an embedded metal and the attached concrete fragment from a concrete mass. •The pullout test apparatus is used for pre-embedded s in fresh concrete mass. It comprises a hydraulic jack 100 kN cap., a precision measuring Bourdon gauge 150 mm dia., bearing ring and 10 pullout s, all contained in a carrying case.
7	Rebound hammer type "N" analog with calibration anvil	•Impact Energy: 2.207 N-m •Accuracy: Better than + 2 Rebound Numbers when tested on Calibration Anvil •Resolution: 2 Rebound Numbers •Range: 10 to 100 Rebound Number •Concrete Compressive Strength Range: 10-70 N/mm ² •Conforms to BS 1881: Part 202, IS 13311 Part 1, and ASTM C-805 •Weight: 1.5 kg •Travel Carry case •Calibration Anvil: Test Hammer Calibration Anvil to provide a minimum rebound reading of 75with Hardness Certification to ASTM E18 requirements & Wire Brush. •Calibration anvil for use with all test hammers.
8	Universal Testing Machine 1	For Tension Test: •Clamping jaws for round specimens 8-15mm
9	Universal Testing Machine 2	For Tension Test: •Clamping jaws for round specimens 10-25mm
10	Universal Testing Machine 3	For Tension Test: •Clamping jaws for round specimens 25-40mm
11	Universal Testing Machine 4	•Electronic extensometer strain gauge type with 2.5mm extension and gauge length 25 & 50mm
12	Universal Testing Machine 5	•Brinell hardness testing attachment with Tungsten Carbide balls of 5 mm and 10 mm dia. •25 x magnification microscope supplied along with the same
13	Universal Testing Machine 6	For 180°Bend test attachment: •Diameter of bending support rollers – 30 mm •Width of bending support rollers – 60 mm •Max. distance between bending supports – 175 mm •Min. distance between bending supports – 15 mm •Diameter of bending pane pin – 30 mm •The attachment meets the requirement of IS-1599-1976 & IS 692-1974
14	Universal Testing Machine 7	•For Shear test: Shear test attachment 6, 8, 12, 16 & 20 mm diameter
15	Universal Testing Machine 8	•For Shear test: shear test attachment 25, 30, 35 & 40 mm diameter
16	V-Box, J-Ring, L-Box, and U-Box and Slump cone with attachments	J-Ring - Specification: J Ring Apparatus test the passing ability of the concrete .The equipment consists of rectangular section of 38 mm X 25 mm open steel ring drilled vertically with holes to accept threaded section of reinforcing bars 12 mm diameter 100 mm in length. The bars and sections can be placed at different distance apart to simulate the congestion of reinforcement of the ring formed by vertical section is 300 mm and height 100 mm. L-Box - Specification: The apparatus consists of an L shaped stainless steel frame, supplied complete with filling hopper, Overall dimensions: 700x200x600 mm, Weight approx.: 18 kg U-Box - Specifications: This apparatus can test the confined flow ability and the capacity of the SCC concrete to flow within confined spaces. V-Funnel -

		<p>Specification: The apparatus consists of a stainless steel V shaped frame fit with a watertight sliding gate and supported by a frame to assure the top funnel horizontal. Overall dimensions: 570x300x920 (h) mm, Weight approx.: 6 kg Slump cone - Specification: Slump cone with attachments to measure flow. Cylindrical Jig - Specification: To test tensile strength of the cylindrical mould.</p>
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Delivery Period: 60 Days from the date of issue of purchase order. Warranty Period: 36 Months

Terms and Conditions

- i. Quotation should be invariably in the prescribed **format enclosed**; otherwise it is **liable to be rejected**.
- ii. Quotation should be sent in a **sealed cover superscribed as "Quotation for the supply of Civil Lab Equipments under TEQIP III"** to the office of the Principal (TEQIP- III), The National Institute of Engineering, Manandavadi Road, Mysore 570 008.
- iii. Last date and time for submission of quotation **23-July-2018, 17:30 hours**.
- iv. Installation and demonstration shall be at **Department of Civil Engineering, NIE, Mysuru**.
- v. Quotation should be valid for **45 days** from the last date of submission of quotation.
- vi. Equipment should be delivered at **Department of Civil Engineering, The National Institute of Engineering, Manandavadi Road, Mysore - 570008**.
- vii. **100% payment on installation, demonstration, successful completion in all respects and final acceptance by the Purchaser**.
- viii. **Authorized Dealer/ Channel Partner Certificate from the company** should be enclosed along with the quotation.
- ix. 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.

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: _____