



INVITATION LETTER

Package Code: TEQIP-III/2019/RJ/gebk/77

Current Date: 05-Dec-2019

Package Name: ECB/TEQIP III/Civil/RMT lab

Method: Shopping Goods

To Be Published on ECB Website

Sub: INVITATION LETTER FOR ECB/TEQIP III/Civil/RMT lab

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	Curing tank	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
2	Vicat apparatus	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
3	Slump Cone	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
4	Concrete Cube Mould	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
5	Vee Bee Consistometer	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
6	DIGITAL Ductility Testing Machine	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
7	Los Angeles Abrasion Test Machine	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
8	Automatic compression Testing Machine	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
9	LAB Pan Mixture	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
10	Standard TAR Viscometer	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	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.

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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 100 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	10
Satisfactory Acceptance	30	90

10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min %:0.05
Liquidated Damages Max %:7

11. All supplied items are under warranty of 36 months from the date of successful acceptance of items and AMC/Others is
12. You are requested to provide your offer latest by 13:30 hours on 19-Dec-2019 and the quotation will be opened on 19th December 2019 at 14:00 PM.
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: 7%
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Preferences will be given to ISO 9001:2000 certified manufactures/suppliers which can ensure by manufacturing of machine as per required standard/BIS and within the specified tolerance limits bidder has to provide necessary certificate along with the tender.
19. Supplier must have in house NABL accredited calibration facility in compression or tension from last 5 year. Please submit the certificate along with bid.
20. Supplier must have NABL certified engineers for future calibration.
21. Bidder should provide details of service center and information on service support facility that could be provided after the warranty period.
22. 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.
23. Bidder should provide details of service center and information on service support facility that could be provided after the warranty period.
24. Supplier must attach previous quotation to all other institutions along with quotation
25. Bidder should give undertaking regarding installation/commissioning, training/ demonstration and after sales service of the instruments.
26. Firm should submit the **technical and financial bid separately**. Purchase committee initially will open the technical bid and afterwards financial bid will be opened for technical successful bid firms. Financial bid of technical unsuccessful firm will be returned back to the firm.
27. Sealed quotation to be submitted/ delivered at the address mentioned below, **Engineering College, Bikaner, Karni Industrial Area, Pugal Road, Bikaner Rajasthan**
28. We look forward to receiving your quotation and thank you for your interest in this project.


(Authorized Signatory)
Principal
Name & Designation
Engineering College
BIKANER

Annexure I

Sr. No	Item Name	Specifications
1	Curing tank	IS 9013-1978 Accelerated Curing Temperature range 10 degree to 100± 2 degree with cooling and heating system. Suitable for 12 cube moulds of 150 mm Fully insulated Complete with hinged lid, heater, thermostat and recirculation pump Two removable racks Arrangement for free circulation of water around each cube Pump, drain valve and other electric equipment must be housed in a separate compartment. Fully powder coated. Operation of the tank on 440V 50hz three phase A.C. supply. The tank should comprise of the following accessories. 1. Hydraulic door closer 2. Outlet valve 3. ACT tray is made in two part. 4.Leveling screw
2	Vicat apparatus	As per IS:5513, 2542 (Part-2), 2645, ISI Mark The Vicat apparatus shall consist of a frame having a movable rod with a platform at one end and the following which can be attached at the other end. Needle for determining the initial setting final setting time, and Plunger for determining the standard consistency. The needles and plunger shall be capable of being fixed centrally into the movable rod by means of clamping screw. Their movement shall be truly vertical and without appreciable friction, and their axis shall coincide with that of the needle or plunger. Needles: The needles and shall be of hardened and tempered steel. Their hilts (fitting ends) shall be of brass. There shall be about 6 mm clearance between the bottom end of the needle, when it is raised, and the top edge of the ring mould, to enable the mould to be located in position without damage to the needle. Dimensions of Needles Needle shall be round of diameter 1.13 +/- 0.05 mm. The needle shall have a flat end. The effective length, excluding the hilt shall be 50 +/- 1 mm. other Needle shall be of the same section as needle but shall be 30 +/- 1 mm in length, excluding the hilt, and fitted with a brass attachment hollowed out so as to leave a circular cutting edge 5 +/- 0.1 mm in diameter. The depth hollowed out shall be 0.5 +/- 0.1 mm. 0.75 mm diameter vent hole shall be provided. The needle shall project 0.5 +/- 0.1 mm beyond the cutting edge Plunger:Plunger shall be of polished brass 10 +/- 0.05 mm in diameter with a projection at the fitting end for insertion into the movable rod. The lower edge shall be flat. Its length shall be 50 +/- 1 mm. Movable Rod Movable rod shall carry an indicator which moves over a graduated scale attached to the frame. clearance of 0.25 mm around the movable rod is recommended to facilitate free movement. suitable arrangement shall be provided to secure the movable rod in rest position when the apparatus is not in use. Graduated Scale Graduated scale shall be 40 mm in length and the smallest division of the scale shall be 1 mm. VicatMould: The Vicatmould shall be of truncated conical form with an internal diameter of 70 +/- 5 mm at the top, 80 +/- 5 mm at the bottom and a height 40 +/- 0.2 mm. The mould shall be adequately rigid and shall have a minimum wall thickness of 4 mm. A non-porous glass or porcelain Steel base plate shall be provided. A plate of glass or stainless steel of at least 2.5 mm thickness is suitable. Mass: The total mass of the moving unit, when in use, complete with all attachments, that is, the cap and rod together with either needle or needle For plunger, shall be 300 +/- 1 g. Needle and plunger shall each weigh 9 +/- 0.5 g.
3	Slump Cone	IS:7320, Slump cone ID-100mm at top, 200 mm at bottom and 300 mm length Base plate with swivel handle Power coated ISI mark temping rod 600 mm length 16mm dia
4	Concrete Cube Mould	Set of 24) 150 mm cube ISI Mark Weight around 14.8 Kg Tolerance limit within as specified in IS:10086
5	Vee Bee Consistometer	As per IS 10510, 1199, ASSHTO T126 Must consist of vibrating table, specimen pot, slump cone, graduated rod and acrylic plate which is electrically operated on 415 volt, 3 phase, 50 Hz, AC supply. Must have a plastic special disc which in contact with the upper surface of wet concrete. The slump cone container should be vibrated at a fixed amplitude and frequency.
6	DIGITAL Ductility Testing Machine	DUCTILITY APPARATUS FOR BRIQUETTE MOULD TEST • The testing apparatus should be in compliance with IS:1208, ASTM D113 and AASHTO T 51 to express the ductility of bitumen as the distance in centimeters to which a standard briquette can be

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		<p>elongated before the thread thus formed breaks under specified temperature conditions. • The apparatus must be capable of testing three specimens simultaneously. • The apparatus must have electric motor driven reduction gear unit to ensure smooth and constant speed and continuous operation. • The apparatus must have provision to control temperature by a digital temperature controller with option of both cooling and heating. • The apparatus must have standard rates of travel viz 5cm/min and 1cm/min. • The apparatus must be supplied with 3 nos Ductility Briquette Mould. • The apparatus must be suitable to operate on 220V, 50 HZ, Single Phase AC Supply.</p>
7	Los Angeles Abrasion Test Machine	<p>Los Angeles Abrasion testing; - The 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>
8	Automatic compression Testing Machine	<p>The testing machine should conform to IS 516 and IS: 14858. Capacity: - 2000kN. 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 ± 1.0 percent of the indicated load. The machine should have 2% overload facility to calibrate the machine up to full capacity. Maximum Distance between Side Platens: - 340mm Maximum Clearance between Platens: - 370mm Platen Size: - 220 to 223 mm Piston Stroke: - Between 48-52mm Piston Diameter: - Around 222.20mm 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 Loading Unit:-Should be welded construction type with cross head, base and side plates (solid), hydraulic jack at base, upper platens should be with self-aligning facility, should be supplied with spacers. Load Cell should be calibrated in KN & a calibration certificate from NABL must be provided at the time of installation. Pumping Unit: -Dual stage Pump allows fast approach of the platens, Automatic controls over the load application. Centrifugal for fast approach & multi-piston for loading. Means – high flow & low flow – cut-off from high pressure flow to low pressure flow as per set pace rate. DC motor powered, means less noise as well as power (energy) saving Electronic Hardware: - The compression testing machine should be fully Auto Controlled and have Touch screen Display, control through android mobile phone and PC / Laptop (Auto. Prime) Platens: -Two steel bearing platens with hardened faces. One of the platens (preferably the one that normally will bear on the upper surface of the specimen) shall be fitted with a ball seating in the form of a portion of a sphere, the center of which coincides with the central point of the face of the platen. The other compression platen shall be plain rigid bearing block.Should be suitable for testing cubes and cylindrical specimens The following information shall be clearly and indelibly marked on the machine: -Name of the manufacturer, date of manufacturing, and serial number. Enhanced Digital Indicator should have the following features: -This is the 10.1 inch TFT LED backlit color touch display with resolution: 800x480 (RGB) & features the integral load pacing bar display, maximum load & stress result display, export to USB & also Wi-Fi based cloud storage facility. Results from approximately 2000 completed tests can be stored in the in-built memory, Data acquisition, storage, management and analysis should all be fully automatic.Peak Load, Peak Stress, Unique Record No. should be displayed.Should have menu driven sample details, Should have Data storage of approximate 2000 records, Should allow viewing and printing the store records, Should have password protection for system & calibration setup, Should have Start, Stop, Pause& Reset, CVT should be supplied to ensure constant voltage to digital indicator, Should allow the operation of machine with software through computer, Should allow user to set break point, Should have peak stress calculation based on sample type and shape, Should allow auto close / release of Dump Valve, EDI should have provision to configure more than one Mode. Mode1 Compression/Mode2-Flexure/Mode3-Prism Testing/Mode4-Tensile splitting strength. Each mode should have independent calibration points and calibration points should also be flexible, Should have an automatic pace rate control to set value. An analysis Software capable of being installed on windows based Computer with following features must be provided with EDI: The</p>

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9	LAB Pan Mixture	<p>software should be equipped with features like: - Graphical user interface in English Test Editor, Test Method Library, Multiple Machine Control, Tabbed Test and Recall Area, Method Editor, Result Editor, Output Editor The assembly should be supplied with axial and lateral strain measurement attachment. The software features of the Automatic Compression Testing Machine should be expandable to include the following features: - facility to list load, compression, stress, Axial strain, lateral strain & time on a single table, Compression Vs Time Plot, Axial Strain Vs Time Plot, Stress Vs Axial Strain Plot, Calculation of Young's Modulus of the sample, Lateral Strain Vs Time Plot, Calculation of Poisson's Ratio. 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 with software: a frame for testing flexural strength along with the dedicated software which can be used as an attachment to the existing system. The software feature of flexure attachment should include the provision for calibration. Strain measurements: - Both Axial and Lateral Measurement with software, the machine should have an option of measuring 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.</p> <p>Capacity 60 Liters • The Mixer has two wheels so as to easily move around in laboratories for ease of pouring. • The mixer has specially designed paddles to ensure uniform & efficient mixing of cement and aggregate both in dry and wet conditions. The mixer can also be used for mixing other building materials (like fly ash etc.) in both dry and wet conditions. • The mixer is equipped with specially designed hydraulic arrangement for tilting the drum to provide ease in pouring and also simple to clean and maintain. • The mixer is equipped with a 3.7 HP motor of reputed make (L Bonvario) suitable for operation on 415V, 50 HZ, Three Phase AC Supply which provides the drum a standard 24 RPM. • The dia of the mixing drum is 800 mm with depth of 400 mm. • The mixer has a lifting mechanism to lift the drum with power pack for ease of operation. • The mixer has a clamp mechanism of cover to firmly lock the drum with frame. • The mixer is powder coated with a thickness of 90 microns to prevent from atmospheric conditions and hence enhancing the life of mixer</p>
10	Standard TAR Viscometer	<p>As per IS:1206, IP 72, BS:2000 (Part 72) Suitable for operation on 220V, 50 Hz, single phase, AC supply. Should be fitted with a copper bath (chrome plated), and should be fitted with drain valve, tube to receive the test cup and to position the stirrer, should be stand mounted. Insulated handle, thermometer socket etc. Should be supplied with standard accessories like 10mm cup, ball valve, electrical heating with immersion heating element, fitted with temperature controlling device (dimmerstat), Should be supplied with Thermometer IP 8C, Range 0°C to 45° C—1 No., Thermometer IP 9C, Range 40°C to 85° C-1 No., Thermometer IP 10C, Range 76°C to 122° C – 1 No.</p>

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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)
Total Cost							

Gross Total Cost (A+B): Rs. _____ (Amount in figures) (Rupees)

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ 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. _____