



INVITATION LETTER

Package Code: TEQIP-III/2019/RJ/gebk/76

Current Date: 05-Dec-2019

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

Method: Shopping Goods

To Be Published On ECB Website

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

Dear Sir,

- 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	Aggregate Impact Value Apparatus	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
2	Thickness gauges for flakiness index	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
3	Length gauges for elongation index	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
4	Sieves set (Coarse)	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
5	Sieves set (Fine)	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
6	Aggregate Crushing Strength Testing Machine	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
7	Specific Gravity & Water Absorption of Aggregates	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
8	CLEAVELAND FLASH & FIRE POINT APPARATUS	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
9	Compaction Factor Equipment	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
10	Trowel	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
11	Spatula	4	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
12	Funnel	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
13	STOP WATCH	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
14	Le-chatelier flask (glass)	3	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
15	Air permeability apparatus	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES

16	Le-chatelier Apparatus	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road Bikaner	YES
17	Streak plate	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
18	Cement Cube Mould	18	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
19	Flow table Test	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
20	Measuring cylinder 1	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
21	specific gravity bottle	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
22	Ring & Ball Apparatus	1	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
23	Tray1	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
24	Tray2	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
25	Tray3	2	Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner	YES
26	Vibrating table	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.
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 ensured 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.


(Authoritative Signature)
Name & Designation
Engineering College
BIKANER

Annexure I

Sr. No	Item Name	Specifications
1	Aggregate Impact Value Apparatus	As per IS: 9377 and IS 2386 (Part 4) The instrument consists of a circular base with Two vertical guides and a cross bar at the top. The Hammer of weight 13.75kg +/-0.25kg can be raised to fall freely down the vertical guides. The Height of fall can be adjusted through 380 +/- 5mm. The Hammer is provided with a locking arrangement. The hammer falls freely to the base and is removable for employing. The apparatus must be of rigid frame with strong base and support columns with quick release trigger mechanism to ensure free fall of hammer during test. The equipment must be supplied with a cylindrical cup, metal measures, tamping rod and automatic blow counter.
2	Thickness gauges for flakiness index	ISI Mark (IS 2386 Part-1) It used for determining the Flakiness Index of Aggregates. It Consists of a frame with a sliding panel. The panel has slots of Different Standard Lengths and Widths accurately Cut according to IS Code & ISI Certification Mark.
3	Length gauges for elongation index	It consists of a hard wood base with vertically mounted metal studs as Specified in the IS 2386 (Part-1) & (ISI Mark). It consists of metal plate on which 8 steel studs are vertically mounted with specified distances in between. The assembly is mounted on a hardwood base. The apparatus should be of ISI Certification Mark.
4	Sieves set (Coarse)	Set of Sieves for Coarse Aggregate Reference Standards: - IS 460, IS 2720 (Part IV) Sieves should be of 450 mm diameter (frame size)-GI frame-ISS perforated plates sieves with aperture sizes of 4.75mm, 6mm, 8mm, 10mm, 12.5mm, 16mm, 20mm, 25mm, 31.5mm, 40mm, 50mm, 63mm, 80mm and Cover and Pan-1 each
5	Sieves set (Fine)	Set of Sieves for Fine Aggregate Reference Standards: - IS 460, IS 2720 (Part IV) Sieves should be of 200 mm diameter (frame size)- ISS Brass frame sieves with aperture sizes of 75 microns, 150 microns, 300 microns, 600 microns, 1.18mm, 2.36mm, 4.00mm, 4.75mm and Cover and Pan-1 each.
6	Aggregate Crushing Strength Testing Machine	IS:9376 and IS 2386(Part 4) It consists of Mild Steel case hardened or tempered tool steel . Cylindrical Container 150mm +/-0.5mm(dia) x (130mm to 140mm) high . Base plate (200 to 230mm/sqr) x 6mm thick. A Plunger of 148mm +/-0.5mm(dia) x (100 to 115mm) high. Supplied complete with Tamping Rod, 16mm dia x (450-600mm) long, both ends rounded, 1 no. Metal Measure 115 +/- 0.5mm dia x 180 +/- 0.5mm high. The base plate shall be provided with a 1.5 mm groove to ensure proper seating of the cylindrical cell. The base plate shall also be provided with slant handles.
7	Specific Gravity & Water Absorption of Aggregates	IS: 2386 (PART III) The outfit comprises of : 1. Buoyancy balance, capacity 15 kg. Least Count 0.5 gm, provision is made in this balance to suspend density basket under material pan. This balance is mounted on an angle iron frame stand. 2. Density basket. A Galvanized wire basket of not more than 6.3 mm mesh or a perforated container of convenient size 20cm dia & 20cm high, preferably chromium plated and polished, with wire hangers not thicker than one millimetre for suspending it from the balance. A stout watertight container in which the basket may be freely suspended
8	CLEAVELAND FLASH & FIRE POINT APPARATUS	Flash Point Open and Fire Point Cleveland Apparatus Ref. Standards - IS:1448 (Part 69) For determining the flash and fire points of petroleum products, except for fuel oil and those products which have open cup flash point below 79° C (175° F). Cleveland Flash Cup Brass, with an Insulated Handle, Gas Test-Jet Assembly Correctly positioned and pivoted from a cast cup platform which is fixed to a heating bath, Energy Regulator, To regulate the rate of rise in temperature 220 V, 50 Hz, Single Phase, AC Supply.
9	Compaction Factor Equipment	As per IS: 5515 The equipment should comprise of the following: 1 Hoppers - The hoppers shall be of rigid construction, true to shape and finished smooth inside. They shall be made of cast brass or cast-iron of grade 20 Brass sheet at least 3 mm thick may also be used provided the joints are finished -flush and the upper edge suitably stiffened with a collar. The lower ends of the hoppers shall be rightly closed with hinged trap-doors having quick release catches. On releasing, the doors shall swing free of the falling concrete. Cast brass or cast iron or sheet brass 3 mm thick is suitable for the doors 2 Receiver - The cylindrical receiver shall be of rigid construction, true to shape and finished smooth inside. It shall be made of cast brass or cast iron. The top edge shall be accurately machined normal to the cylinder axis. Suitable lugs shall be provided for facility in lifting the receiver. 3 Frame - The frame shall be of rigid construction. Welded or riveted rolled structural sections would be suitable. It shall hold the hoppers and receiver firmly in position along their common vertical axis in the relative positions. The receiver and hoppers shall be easily detachable. 4 Accessories -A 16 mm diameter and 600 mm long steel tamping bar with a rounded working end. and scales (or a balance) to weigh up to *30 kg to the nearest 05 g. Upper Hopper a) Top internal diameter 250mm b) Bottom internal diameter 125mm c) Internal height 275 mm Lower hopper a) Top internal diameter 225mm b)

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		Bottom internal diameter 125mm c) Internal height 225 mm Receiver: a)Internal diameter 150mm (b)Internal height 285 mm(c) Radius of bottom fillet 20mm Distance between bottom of upper hopper and top of lower hopper -200mm Distance between bottom of lower hopper and top of receiver- 200mm The volume of the receiver corresponding to the specified dimensions will be 0.005 cubic metre.
10	Trowel	Gauging Trowel as per IS: 4031 with a 100 to 150mm long blade with straight edge. Weight 210 + 10g- 2 Nos. Gauging Trowel, as per IS:5515 with 200mm long blade, Weight 210 + 10 g - 2 Nos. (=1 set)
11	Spatula	IS 269 -1958 It consists of a stainless blade with shank and a wooden handle of specified shape of 100mm and 200mm blade
12	Funnel	Funnel Glass accurate 60 deg Angle long stem of Size 50ml 75ml 100ml
13	STOP WATCH	Waterproof stop watch with Lcd display & chronological counter. Digital type with start ,stop & reset function with least count of 0.01 sec. Also Supplied with neck cord.
14	Le-chatelier flask (glass)	IS:4031 part 11 Made from borosil glass. The flask is 243mm in total height, having a bulb of 90 mm dia of 250ml approximate capacity. The long neck of the flask has at top a funnel of 50mm dia in which fits a ground glass stopper. The neck has over-all 11mm i. D. Upper portion is graduated from 18 ml to 24ml with 0.1ml graduation. Just at the bottom of the neck 1ml capacity is marked in between there is 17ml capacity bulb.
15	Air permeability apparatus	As per IS: 5516, 1727, 4031, 4825 • The equipment must be automatic type with inbuilt data recording and control system. • Must be suitable to determine the fineness of cement with single touch operation for automatic control of the movement of fluid until the upper mark. • Must have automatic measurement of temperature during the test using a Pt 100 probe. • Must have automatic correction of formula for calculation of Blaine Value as per IS 5516 with variation in temperature. • The system should facilitate to work in standalone mode and have facility to monitor and configure various cement types and change or user programmable K factor.
16	Le-chatelier Apparatus	As per IS: 5516, 1727, 4031, 4825 • The equipment must be automatic type with inbuilt data recording and control system. • Must be suitable to determine the fineness of cement with single touch operation for automatic control of the movement of fluid until the upper mark. • Must have automatic measurement of temperature during the test using a Pt 100 probe. • Must have automatic correction of formula for calculation of Blaine Value as per IS 5516 with variation in temperature. • The system should facilitate to work in standalone mode and have facility to monitor and configure various cement types and change or user programmable K factor.
17	Streak plate	Streak Plate, Unglazed Porcelain, 5x5cm
18	Cement Cube Mould	As per IS 10086 Cube Moulds: i) 70.6mm ii) 150 x 150 x 150 mm iii) Cylindrical(15x30cm)
19	Flow table Test	Brass-Top table Provided with Scribe Lines on the face of table with 60° tool to depth of about 2mm. Cast iron stand tamping rod mould as per IS 5512:1983
20	Measuring cylinder 1	Measuring cylinder of borosil glass make graduated with capacity 10ml, 25 ml, 50 ml and 100 ml.
21	specific gravity bottle	(As per IS 1202-1978) 50ml capacity normal type with narrow mouth for Bitumen
22	Ring & Ball Apparatus	Ring and Ball Apparatus: • 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. • The test apparatus must be compact and user friendly supplied with a magnetic stirrer with heating facility and digital display of temperature. • The heating should be controlled and adjusted through integral PID. • 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)
23	Tray1	Sample Tray (Enamel) :- Sample trays with following dimensions should be provided: - Size200mmx150mmx30mm
24	Tray2	Sample Tray (Enamel) :- Sample trays with following dimensions should be provided: - Size600mmx450mmx50mm
25	Tray3	Sample Tray (Enamel) :- Sample trays with following dimensions should be provided: - Size600mmx500mmx50mm
26	Vibrating table	Reference Standard: - EN 12390-2, EN13286-50 EN 12350-6, 7 Vibrating Table for 16 moulds of 150mm cube and beams, with 1000mm x 1000mm as dimension of the table top. For operation on 220 V, 50 Hz, Single Phase, AC supply.

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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							

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ Gross Total Cost (A+B): Rs. _____
_____ amount in words) within the period specified in the Invitation for Quotations. _____ (Amount in figures) (Rupees)

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. _____