



**Bineswar Brahma Engineering College, Kokrajhar, Chandrapara Kokrajhar
(BTAD) Assam-783370, Assam**

INVITATION LETTER

Package Code: TEQIP-III/2020/AS/bbek/86

Current Date: 27-Feb-2020

Package Name: BBEC/TEQIP/CE/Pack/02

Method: Shopping Goods

Sub: INVITATION LETTER FOR BBEC/TEQIP/CE/Pack/02

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	Youngs modulus apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
2	Clark Maxwell's Reciprocal Theorem Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
3	Redundant joint apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
4	Deflection of Truss Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
5	Curved Member Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
6	Three Hinged Arch Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
7	Two Hinged Arch Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	yes

8	Pin jointed truss apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
9	Behavior of Column and Struts Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
10	Unsymmetrical Bending Apparatus	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
11	Torsion Testing Machine (Digital)	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
12	Ranging Rod	10	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
13	Levelling staff	10	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	Yes
14	Tangent Clinometer	1	Bineswar Brahma Engineering College, Chandrapara, Kokrajhar, BTAD, Assam, 783370	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 **45**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 %: 0.01
 Liquidated Damages Max %: 10

11. All supplied items are under warranty of **12** months from the date of successful acceptance of items and AMC/Others is **NA**.
12. You are requested to provide your offer latest by **15:00** hours on **20-Mar-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, **Bineswar Brahma Engineering College, Kokrajhar, Chandrapara Kokrajhar (BTAD) Assam- 783370, Assam**
19. We look forward to receiving your quotation and thank you for your interest in this project.



(Authorized Signatory)

Name & Designation

Principal
Bineswar Brahma Engineering College
Kokrajhar

Annexure I

Sr. No	Item Name	Specifications
1	Youngs modulus apparatus	It is used for determining the axial deformation and diametrical extension of concrete cylinder specimens during compression test. Technical Specification: Dial gauge 1mm/0.001mm, Specimen size Dia.150x300mm, Package Equip carrying case.
2	Clark Maxwell's Reciprocal Theorem Apparatus	Apparatus consist of a mild steel beam 100cm long and 1.25cm X 4mm in cross section with graduations at every 10cm along the length. It should be supported on two knife edge supports 70cm apart with a 30cm overhang on one side. Reciprocal theorem can be verified by direct measurements of the deflections of various points with the help of a dial gauge due to a load placed at the reciprocal points. A dial gauge with 25mm travel (with a magnetic base) will be supplied with the apparatus. Apparatus will be supplied complete with a supporting stand and a set of weights.
3	Redundant joint apparatus	Apparatus consists of three suspension members (spring balances) of different stiffness, which are jointed at a point to form the redundant joint. The upper end of the suspension members being tied in a position to a vertical wooden board. Arrangement is provided to apply a vertical load at the joint and to measure its horizontal and vertical displacement on a paper and also elongations and forces in the suspension members by the help of dial gauges. Dial gauges with magnetic base are provided with the apparatus.
4	Deflection of Truss Apparatus	Apparatus consists of 4 panels of a PRATT truss, each panel being 40cm in horizontal direction and 30cm in vertical direction. Load can be applied on each panel point. All tension members are provided with detachable springs so as to obtain appreciable deformation of the member. Direction of the diagonal members may be changed. Apparatus can be used to illustrate visually the nature of forces set up in various members of the Truss. Apparatus is supplied complete with a supporting stand and a set of weights
5	Curved Member Apparatus	Apparatus consists of a steel bar which is used to make the different curved member Viz. circle, semicircle with straight arm, a quadrant of a circle and quadrant of a circle with straight arm. The bottom ends of the members are fixed to the base. Under the application of load at free end, its horizontal and vertical deflection can be measured with the help of dial gauges. A dial gauge with 25mm travel (with a magnetic base) is supplied with the apparatus. Apparatus will be supplied complete with a supporting stand and a set of weights.
6	Three Hinged Arch Apparatus	The mild steel model has a span of 100cm and rise 25cm, with hinges at supports and crown. One of the ends should rests on rollers. Along the horizontal span of the arch various points are marked at equidistant

		for the application of load. This being a statically determinate structure, the horizontal thrust developed under the action of any load system can be theoretically calculated and will also be measured directly by neutralizing the outward movement of the roller end. A dial gauge with 25mm travel (with magnetic base) may be supplied with the apparatus. Apparatus to be supplied should be complete with a supporting stand and a set of weights.
7	Two Hinged Arch Apparatus	Apparatus has a span of 100cm and rise 25cm. Both ends should have hinge but one of the ends should also be free to move longitudinally. A lever arrangement fitted at this end for the application of known horizontal inward force for measuring the horizontal thrust. Along the horizontal span of the arch various points are marked at equidistant for the application of load. This being a statically indeterminate structure of the first degree. A dial gauge with 25mm travel (with magnetic base) is to be supplied with the apparatus. Mild steel apparatus complete with a supporting stand and a set of weights.
8	Pin jointed truss apparatus	Experimental and analytical study of 1 3 bar pin jointed Truss Apparatus consists of three suspension members (spring balances) of different stiffness which are jointed at a point to form the redundant joint. The upper end of the suspension members being tied in a position to a vertical wooden board. Arrangement is provided on a paper and also elongations and forces in the suspension members.
9	Behavior of Column and Struts Apparatus	Apparatus consist of four spring steel columns which are put along a vertical wooden board. These four columns have different end conditions as : Both ends pinned, Both ends fixed, One end pinned and other fixed, One end fixed and other end free. Apparatus to be supplied should be complete with a supporting stand and a set of weights.
10	Unsymmetrical Bending Apparatus	Apparatus consist of an angle of size 1" x 1" x 1/8" or in equivalent metric units of length 80cm is tied as a cantilever beam. The beam is fixed at one end such that the rotation of 450 intervals can be given and clamped such that the principal axis of its cross-section may be inclined at any angle with the horizontal and vertical planes. Also arrangement is provided to apply vertical load at the free end of the cantilever and to measure horizontal and vertical deflection of the free end. A dial gauge with magnetic base is supplied with the apparatus.
11	Torsion Testing Machine (Digital)	Max.torque capacity 2000 with angle of twist 0.1. torsion speed and direction 1.5 RPM and reverse of distance range 0- 1000 mm. Grips of the round bar 4-30 mm. Grips of the flat bars thickness 2-60 mm all motorises with AC input.(all Facility for connecting the DAS panel to PC)
12	Ranging Rod	Heavy folding type (1-1.5" pipe) of length 3 meters
13	Levelling staff	Telescopic type with printed accurately mark numerical in red and black on white ground graduation according IS 1979: 1961 and push button automatic locking system

14	Tangent Clinometer	With rack and pinion arrangement with face and vene divided on one side of elevation and depression in degree and other side with scale of tangent with bubble and scale level
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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. _____

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. _____