(140)

Institute of Engineering & Technology, Lucknow,Sitapur Road, Lucknow, Uttar Pradesh - 226021

INVITATION LETTER

IETI TEQIP-III/2019-230-F

Package Code: TEQIP-III/2019/UP/ietl/265
Current Date: 06-Jul-2019

Package Name: IET-TEQIP-CED-LAB-6
Method: Shopping Goods

Sub: INVITATION LETTER FOR IET-TEQIP-CED-LAB-6

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	Elastic Properties of Deflected Beam Apparatus	1	Institute of Engineering and Technology, Lucknow	
2	Apparatus for Verification of Clerk's Maxwell Reciprocal Theorem	1	Institute of Engineering and Technology, Lucknow	
3	Three Hinged Arch Apparatus	1	Institute of Engineering and Technology, Lucknow	
4	Two Hinged Arch Apparatus	1	Institute of Engineering and Technology, Lucknow	
5	Curved Member Apparatus	1	Institute of Engineering and Technology, Lucknow	
6	Redundant Joint Apparatus	1	Institute of Engineering and Technology, Lucknow	
7	Behavior of Column and Struts Apparatus	1	Institute of Engineering and Technology, Lucknow	
8	Unsymmetrical Bending Apparatus	1	Institute of Engineering and Technology, Lucknow	

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 **60**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:

Satisfactory Delivery & Installation and Acceptance - 100% of total cost

10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min % :0.50
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 .

12. You are requested to provide your offer latest by **14:00** hours on **22-Jul-2019.**

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**: 5%**

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, **TEQIP-III Institute of Engineering & Technology, Lucknow,Sitapur Road, Lucknow, Uttar Pradesh - 226021**

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

(Authorized Signatory)
Name & Designation
COORDINATOR
TEQIP PHASE-III
Institute of Engineering &
Technology, Lucknow-21

Annexure I

Sr. No	Item Name	Specifications
1	Elastic Properties of Deflected Beam Apparatus	Apparatus consists of a mild steel beam 2.5cm x 3mm in cross section and 100cm long, pinned to two supports 70cm apart situated symmetrically. One of the ends can be fixed or given a known slope by applying a known moment at the end with the help of suspended loads. At the other end also a known moment can be applied. Vertical loads can be applied at various points along the span of the beam. Two LVDT with 25mm travel (with a magnetic base) and two load cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer. complete with a supporting stand.
2	Apparatus for Verification of Clerk's Maxwell Reciprocal Theorem	Apparatus consists of a beam 100cm long and 1.25cm x 4mm in cross section with graduations at every 10cm along the length. It is 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 LVDT with 25mm travel (with a magnetic base) and one load cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer. complete with a supporting stand .
3	Three Hinged Arch Apparatus	The model has a span of 100cm and rise 25cm, with hinges at supports and crown. One of the ends 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 digital Indicator. Complete with a supporting stand. A Load Cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer.
4	Two Hinged Arch Apparatus	The model has a span of 100cm and rise 25cm. Both ends are hinged but one of the ends is also free to move longitudinally. A Load Cell of 10 Kg. capacity is 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. A LVDT with 25mm travel (with magnetic base) is supplied with the apparatus. Apparatus is supplied complete with a supporting stand. A digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer.
5	Curved Member Apparatus	Apparatus consists of a steel bar which is used to make the different curved members 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 is measured with the help of dial gauges. Two LVDT with 25mm

		travel (with a magnetic base) and a Load Cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer is supplied with the apparatus complete with a supporting stand.
6	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. Two LVDT with 25mm travel (with magnetic bases), A Load Cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer are supplied with the apparatus complete with a supporting stand.
7	Behavior of Column and Struts Apparatus	Apparatus has different end conditions as below: 1. Both ends pinned 2. Both ends fixed 3. One end pinned and other fixed 4. One end fixed and other end free (complete with a supporting stand and a set of weights.)
8	Unsymmetrical Bending Apparatus	Apparatus consists of an angle of size 1"x1"x1/8" 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 45^0 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. Two LVDT with 25mm travel (with magnetic base) A Load Cell of 10 Kg. capacity with a digital Indicator is supplied with the apparatus. Digital Indicator is capable to transfer the data through RS 232 to the computer are supplied with the app. complete with a supporting stand.

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. _____