



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

### INVITATION LETTER

Package Code: TEQIP-III/2019/UP/IETL/272

Package Name: IET-TEQIP-EED-LAB-7

IET/TEQIP-III/2019-232-01  
Current Date: 06-Jul-2019

Method: Shopping Goods

Sub: INVITATION LETTER FOR IET-TEQIP-EED-LAB-7

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	IDMT Over Current Relay Trainer with software through PC interfacing	1	Institute of Engineering and Technology, Lucknow	
2	Percentage Differential Relay	1	Institute of Engineering and Technology, Lucknow	
3	Study of Impedance based distance relays	1	Institute of Engineering and Technology, Lucknow	
4	Ferranti Effect in Transmission Line Model	1	Institute of Engineering and Technology, Lucknow	

- 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

- The contract shall be for the full quantity as described above.
- Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- All duties and other levies payable by the supplier under the contract shall be

included in the unit Price.

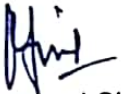
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than 60days 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	IDMT Over Current Relay Trainer with software through PC interfacing	<p>The trainer is mounted in a light weight sturdy aluminum profile flat demo trainer system including 7-8 Panels. The parameter of the Trainer can be studied on software through pc interface with getting data on the excel sheet and the waveform study of the parameters 1 phase AC Input supply panel</p> <p>1 ph. MCBs of 4A/1.6A – 2 nos.</p> <p>Bulb Load.</p> <p>Variable voltage &amp; current injector panel</p> <p>Consist of 1 phase dimmer 230VAC/1A</p> <p>Short circuit transformer with primary 230VAC/1A, secondary 0-2-8V/12A taps</p> <p>Over current &amp; elapsed time measurement panel</p> <p>Consists of AC ammeter of 20A</p> <p>Elapsed time counters range 999.001 sec, resolution 1 msec.</p> <p>Over Current Relay Panel</p> <p>All the connection of relay is brought out on this panel.</p> <p>2 NO trip contacts.</p> <p>Relay Coil, Protection relay type</p> <p>Numerical IDMT over current relay, current rating 5A, with different current settings &amp; time setting 0.1 to 1.</p>
2	Percentage Differential Relay	<p>Percentage differential relay setup to study the construction of relay and to find the operating characteristics of the relay.</p> <p>Setup will consist of ABB make percentage differential relay, Auto transformer 0-270V, 2A , Ammeter (AC, 10A), , Rheostat 5 A, 45 ohms, Rheostat 10A, 20 ohms, Isolation / Protection transformer, Current transformer, Auxiliary DC supply unit with transformer, and DP MCB. All the accessories and relays will be fitted on sheet fixed to M. S. Box cabinet almirah type suitable for cable mounting with lock and key arrangement.</p>
3	Study of Impedance based distance relays	<p>Setup to be used for study of simple type distance protection relay in order to understand the impedance setting for zone-1, zone-2 and zone-3. Setup to consist of fault impedance box, supply box, C.T. box, and controlling box. All the accessories to be housed in M.S. box suitable for table mounting complete with patch cord.</p> <p>Setup shall be utilized for performing following experiments:</p> <p>a) Study and checking of setting of zone-1, zone-2 and zone-3 setting of distance relays</p> <p>b) Study the checking of setting of zone-1, zone-2 and zone-3 with inductor.</p>
4	Ferranti Effect in Transmission Line Model	<p>Transmission line model consisting of four section of transmission line operable at 220V with current rating at 2A connected in <math>\pi</math> network. A continuous variable power supply with two digital voltmeter and two digital ammeter, mounted on front panel with variable resistive, inductive, capacitive load fitted in M.S. sheet box complete with patch cords for interconnection.</p>



**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)

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