



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

INVITATION LETTER

Package Code: TEQIP-III/2019/UP/ietl/270

Package Name: IET-TEQIP-EED-LAB-5

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

Method: Shopping Goods

Sub: INVITATION LETTER FOR IET-TEQIP-EED-LAB-5

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	Load Cell Trainer cum Project Development System	3	Institute of Engineering and Technology, Lucknow	
2	Solar Energy measurement System	1	Institute of Engineering and Technology, Lucknow	
3	PC Based Data Acquisition System	3	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.
- Applicable taxes shall be quoted separately for all items.
- 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:

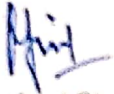
Satisfactory Delivery & Installation and Acceptance - 100% of total cost

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)

COORDINATOR
TEQIP PHASE-III
Institute of Engineering &
Technology, Lucknow-21

Annexure I

Sr. No	Item Name	Specifications										
1	Load Cell Trainer cum Project Development System	<p>Load Cell with Capacity of 10 kg, On Board Breadboard to develop Project work also. Operational amplifier and signal conditioning Circuit.LCD 16 X 2 based unit to display load status, 4 Seven Segments. Based On PIC18F452 microcontroller system with Reprogramming Facility using USB Cable. Mechanism to keep weight on platform (9Lx7Wx5H)inch. The System is Having the Facility to Log the Data into PC using USB PC interface.</p> <p>Load Cell Sensor :-</p> <table><tr><td>Excitation Voltage</td><td>9 -12 (DC)</td></tr><tr><td>Rated Output (mv/v)</td><td>2±0.2</td></tr><tr><td>Input Resistance (Ω)</td><td>400±10</td></tr><tr><td>Output Resistance (Ω)</td><td>350±2</td></tr><tr><td>Cable</td><td>4mm,0.42mtr.</td></tr></table> <p>Software CD, User Manuals</p>	Excitation Voltage	9 -12 (DC)	Rated Output (mv/v)	2±0.2	Input Resistance (Ω)	400±10	Output Resistance (Ω)	350±2	Cable	4mm,0.42mtr.
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Cable	4mm,0.42mtr.											
2	Solar Energy measurement System	<p>* DC Voltmeter (0-100V), DC Ammeter (0-5A)</p> <p>*Rheostat as load (800E, 2.5A),</p> <p>*Battery 12v , Standalone Inverter.</p> <ul style="list-style-type: none">• Multi-channel DPM for temperature display, *50Wx2 photo-voltaic (PV), <p>*Spectral response & Carrier Lifetime Measurement, AC load , DC load</p> <p>*50x50mm x2 nos. solar cells for series and parallel connections experiments,</p> <p>*Dimmers to set intensity of halogen</p> <p>*500w halogen lamp as source of light</p> <p>*Energy Meter for energy measurement</p> <p>*RTD Temperature PID Control.</p> <p>*Data Logger for energy measurement and data logging in pc.</p> <p>*Lux meter</p> <p>*Tiltable frame for angle measurement of solar panel</p> <p>Experiments::</p> <p>Voltage Measurement in Open Circuit solar panel Current Measurement in Open Circuit solar panel. To operate DC Load (Fan/ LED)To measure the Voltage and current of DC Load. To operate AC Load (Bulb) using inverter circuit Study of Components of Solar Panel Trainer. Measurement of the energy consumption by Using the energy meter (various parameter voltage , current ,power factor , kilo watt and kwh)Study of the charging and discharging status of battery. To study the spectral</p>										

3

PC Based Data
Acquisition System

response char. Of light To study the temperature controlled PID
To study the different parameter 's of energy meter and data
logging of parameters in pc through labview To control the
intensity of the light source using dimmer pannel To verify the
light intensity using lux meter
Software CD, User Mannuals
System comes with the LABJACK card and various sensor like
Temp Sensors (LM35,PT100), LDR (LM 324 & LDR) & IR
Sensors, proximity switches (Inductive), With PC Interface through
USB Bus with data acquisition system Having 8 channel 12-Bit
Analog Inputs, 2 analog outputs 8 Digital Input output lines with
Complete Software Control Must support Lab view software, along
with Drivers with experimental user manual with example codes for
the above mentioned sensors. On board 8 digital output (LED's) &
with on board 8 digital input (8 pin dip switch) on board buzzer for
indication, 2 no of relays. Facility for external signal interface, with
Potentiometer

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. _____
(Rupees _____ amount in words) within the period specified in the Invitation for Quotations. (Amount in figures)

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. _____