



Government Woman Engineering College, Ajmer, Makhupura, Nasirabad
Road, Ajmer -305002

INVITATION LETTER

Package Code: TEQIP-III/2019/RJ/gwec/77

Current Date: 04-Jun-2019

Package Name: GWECA/ECE/EMI Lab

Method: Shopping Goods

To,

Sub: INVITATION LETTER FOR GWECA/ECE/EMI Lab

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	Measurement of Earth Resistance Trainer using fall of potential	1	ECE Dept., GWEC, Ajmer	
2	Q meter	2	ECE Dept., GWEC, Ajmer	
3	Anderson Bridge (A)	1	ECE Dept., GWEC, Ajmer	
4	Maxwell's Bridge	1	ECE Dept., GWEC, Ajmer	
5	Wein's Bridge	1	ECE Dept., GWEC, Ajmer	
6	Ultrasonic Distance Measurement Trainer	1	ECE Dept., GWEC, Ajmer	
7	LVDT Trainer	1	ECE Dept., GWEC, Ajmer	
8	Temperature Sensor Trainer	1	ECE Dept. GWEC, Ajmer	

9	Slide Wire Potentiometer setup	2	ECE Dept., GWEC, Ajmer	
10	Strain Gauge Trainer	1	ECE Dept., GWEC, Ajmer	
11	Working bench for calibration of Energy meter and phantom loading	1	ECE Dept., GWEC, Ajmer	

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 **90**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 Acceptance - 10% of total cost

Delivery and installation - 90% of total cost

10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min % :N/A
Liquidated Damages Max % : N/A
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 **15:00** hours on **18-Jun-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Training required on site**
15. Testing/Installation Clause (if any) **Installation and training required on site**
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,
**Government Woman Engineering College, Ajmer,Makhupura, Nasirabad Road,
Ajmer -305002**
19. We look forward to receiving your quotation and thank you for your interest in this project.
20. You are requested to provide the company details viz. **Firm Registration Certificate, GST Registration Certificate** and any other necessary documents **duly certified by Chartered Accountant and Notary Public.**

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	Measurement of Earth Resistance Trainer using fall of potential	An exclusive training system showing in details the principle of fall of potential between two stationary and one moving electrode to find out resistance of earth. The system should consist of electrodes, mallet, and long wires upto 8-10 mts. With a variable power supply of 0-12 V / 2A and good quality meters for exact measurements. Mimic diagram of circuit with line diagram and symbols printed on system. Should be supplied along with extensive user manual. Provided with a carrying case. Should be supplied measuring system having built-in LED torchlight to illuminate test area. Flashing backlight as visual alert during continuity tests in dim areas. Data logging capability (stores up to 10 readings). IR connectivity to transfer data to PC for record. Basic measurements (Voltage, Current, Resistance, Diode, Capacitance, Frequency). Auxiliary temperature measurement using K-type thermocouple*. Compatible with U1177A/U1117A IR-Bluetooth adapter for remote monitoring & datalogging.
2	Q meter	Digital display 8 digit LED 0.8" height, range indicator, 999 count and status indicators via 3 LEDs. Working temperature 0 to 40°C. Normal temperature 20°C. Rel. Humidity max. 80% (non-condensing). Storage temperature -20°C to +50°C. Mains connection 90 - 260V. Dimensions 240 x 280 x 120 mm. Weight 4.5 kg. Measuring frequency 250ms.
3	Anderson Bridge (A)	Anderson's Bridge for unknown inductance measurement with Power supply requirement: 230V AC, 50 Hz. Built in IC based regulated Power supply - 5 V DC/200 mA. Frequency 1 KHz and Amplitude-5Vpp. Digital null detector, EP socket provide to connect external Headphone. All should be supplied with adequate no. of patch chords and user manuals with line diagram of power supply too. Should be supplied measuring system having built-in LED torchlight to illuminate test area. Flashing backlight as visual alert during continuity tests in dim areas. Data logging capability (stores up to 10 readings). IR connectivity to transfer data to PC for record. Basic measurements (Voltage, Current, Resistance, Diode, Capacitance, Frequency). Auxiliary temperature measurement using K-type thermocouple*. Compatible with U1177A/U1117A IR-Bluetooth adapter for remote monitoring & datalogging.
4	Maxwell's Bridge	Maxwell Bridge for unknown inductance measurement with Power supply requirement: 230V AC, 50 Hz. Built in IC based regulated Power supply - 5 V DC/200 mA. Frequency 1 KHz and Amplitude-5Vpp. Digital null detector, EP socket provide to connect external Headphone. All should be supplied with adequate no. of patch chords and user manuals with line diagram of power supply too. Should be

		<p>supplied measuring system having built-in LED torchlight to illuminate test area Flashing backlight as visual alert during continuity tests in dim areas Data logging capability (stores up to 10 readings) IR connectivity to transfer data to PC for record Basic measurements (Voltage, Current, Resistance, Diode, Capacitance, Frequency) Auxiliary temperature measurement using K-type thermocouple* Compatible with U1177A/U1117A IR-Bluetooth adapter for remote monitoring & datalogging.</p>
5	Wein's Bridge	<p>Wein's Bridge for unknown frequency & capacitance measurement with Power supply requirement: 230V AC, 50 Hz. Built in IC based regulated Power supply - 5 V DC/200 mA. Frequency 1 KHz and Amplitude- 5Vpp. Digital null detector , EP socket provide to connect external Headphone All should be supplied with adequate no. of patch chords and user manuals with line diagram of power supply too. Should be supplied measuring system having built-in LED torchlight to illuminate test area Flashing backlight as visual alert during continuity tests in dim areas Data logging capability (stores up to 10 readings) IR connectivity to transfer data to PC for record Basic measurements (Voltage, Current, Resistance, Diode, Capacitance, Frequency) Auxiliary temperature measurement using K-type thermocouple* Compatible with U1177A/U1117A IR-Bluetooth adapter for remote monitoring & datalogging.</p>
6	Ultrasonic Distance Measurement Trainer	<p>PIC 18F452 Microcontroller based system with memory card for data storage facility Lcd 16x2 for output data display, Test-Points to Observe Input Output On board power jack with power, 220v to 12v DC input operated High quality Serially interface ultrasonic sensor with Range: 6 inches to 15 inches, Accuracy: 1 inch 5 volt DC In built Power supply, Onboard controlled LCD Display On board Test points to study the signals during operation of sensor Faults study using hardware switches during operation The system comes with 15 inches scale for distance measurement concept study, user manual, power chord, patch chords.</p>
7	LVDT Trainer	<p>PIC 18F452 Microcontroller based system with memory card for data storage facility Lcd 16x2 for output data display, Test-Points to Observe Input Output On board power jack with power, 220v to 12v DC input operated AC-AC spring loaded 20mm LVDT with Micrometer scale Inbuilt excitation Frequency generator with test points & adjust, Test points for test Lvdt calibration using Multimeter , Onboard power reset switch with led indicator to reset display Buzzer indicator for finding LVDT null point On board Operational amplifier and signal conditioning circuit Programming header for microcontroller programming facility and to develop customized application Light weight and tough plastic cabinet, System come with operating user Manual, connecting cables & power supply</p>
8	Temperature Sensor Trainer	<p>PIC 18F452 Microcontroller based system with memory card for data storage facility Lcd 16x2 for output data display, Test-Points to Observe Input Output Multiple sensors facility like Lm35,RTD, THERMISTOR, and J type thermocouple sensor to measure</p>

		temperature , On board power jack In put Power Supply voltage: 230 V/50 Hz Built In DC Power Supplies +5V The system is Sensitive, Linear, Stable & Accurate Accessories Included: Power Cord, User's Manual and Patch Cord
9	Slide Wire Potentiometer setup	10 meter resistive wire wounded on wooden board. Board equipped with power supply voltmeter ammeter galvanpmeter and known and unknown resistances on board Power supplies for primary circuits and standard electronic cells each for both sets. All should be supplied with adequate no. of patch chords and user manuals with line diagram of power supply too.
10	Strain Gauge Trainer	PIC 18F452 Microcontroller based system with memory card for data storage facility Lcd 16x2 for output data display, Test-Points to Observe Input Output Built In DC Power Supplies +5V,-5V DC In put Power Supply voltage: 230 V/50 Hz Strain Gauge (350Ohm): 2 Nos. ,Gauge Factor: 2.11, $\pm 1\%$ Maximum load Capacity: 1.5kg ,External Cantilever Arrangement Cantilever Material: Stainless Steel ,Bridge Voltage: +5 V DC High Repeatability and Reliability, Bridge Configuration: Half Bridge Weight: 1.5 Kg (Approx.) ,Self-Contained and Easy To Operate Sensitive, Linear, Stable & Accurate Accessories Included: Power Cord, User's Manual, Standard Weights and Patch Cord
11	Working bench for calibration of Energy meter and phantom loading	calibration of single phase energy meter, 15 A variac, rheostat 10 amp 10 ohm, Voltmeter, Ammeter, ISI Marked Energy meter Continuously variable Auto Transformer, Power factor meter. High quality digital meters selec make. Necessary arrangement to introduce power factor in the circuit.

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. _____