

INVITATION FOR QUOTATION

TEQIP-III/2018/iies/Shopping/14

24-Apr-2018

To,

Sub: Invitation for Quotations for supply of Goods

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	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Low frequency impedance and dielectric measurement unit with variable temperature option	1	30	ETCE Department, IEST	Testing and Installation required

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, initialing, 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 **40** 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:

Delivery and Installation - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **15:00** hours on **16-May-2018** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Training required**
14. Testing/Installation Clause (if any) **Testing and Installation required**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,
P.O: Botanic Garden Dist: Howrah West Bengal 711103
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Dr. Ankita Pramanik)
Nodal Officer (Procurement), TEQIP-III
IEST, Shibpur

Annexure I

Sr. No	Item Name	Specifications	
1	Low frequency impedance and dielectric measurement unit with variable temperature option	Description	Specification
		Generator	Voltage Mode / Current Mode
		AC Amplitude $\leq 10\text{MHz}$	0 to 3V rms / 0 to 60mA rms
		AC Amplitude $> 10\text{MHz}$	0 to 1V rms / 0 to 20mA rms
		Max AC Resolution	5mV / 100 μA

		DC Bias Range	$\pm 40V / \pm 100mA$ or better (without using any booster or external power supply)
		Max DC Resolution	10mV / 200 μA
		Frequency Range	$\leq 10\mu Hz$ to $\geq 30MHz$
		Frequency Resolution (minimum)	10 μHz or better
		Frequency Accuracy	0.1% or better
		Sweep Types	Frequency (log or linear), ac/dc voltage, ac/dc current
		Measurement Range	
		Inductance	100nH to 1KH or better
		Capacitance	1pF to 10mF or better
		Resistance	10m Ω to 100M Ω or better (future upgradable up to 100T Ω)
		Accuracy	0.1%
		Resolution	5 digits
		Input System	Voltage (x2) / Current
		Number of Channels	3 independent analyzers operating in parallel
		Ranges	30mV,300mV,3V / 6 μA ,60 μA ,600 μA , 6mA,60mA

Results	
Variable	Frequency, AC Amplitude, DC Bias
Measured Parameters	Voltage gain, phase, real, imaginary, Z, R, X, Y, G, B, V, I, group delay, C, L, Q, D
Warranty	Minimum 1 year
The instrument should be capable with 2, 3 or 4 terminal measurement configurations.	
The instrument should have provision to operate easily through front panel & also using computer using specialized software.	
GPIB / Ethernet interface should be available to connect with computer.	

Software Capability:

Capability to apply and measure- DC voltage and current along with AC sine wave.

Should be able to sweep frequency, amplitude in both current and voltage mode.

Should be able to sweep DC voltage and current.

Gain, Phase measurements must be possible along with display of these parameters on Bode & Complex plane

Displays a,b,r,q,t,Z,R,X,Y,G,B,L,C,Q,D,D%
 Z^* , Y^* , ϵ^* , C^* , tan delta, DC bias, temperature should be measured and displayed against any of these parameters on Bode & Complex plane.

Software should be capable to calculate tan delta, epsilon, permittivity, relative permittivity, impedance, admittance and other related parameters instantly.

Null, normalize and auto-impedance modes

		<p>Impedance should be measured over a period of time at a fixed frequency.</p> <p>Sample Holder :</p> <p>Suitable sample holder for impedance measurement of thin films on Si (semiconductor substrates) of up to 20 mm diameter at temperature range from RT to 400⁰C. Pt electrodes & suitable temperature controller should be included.</p>
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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.

**** Please note that the institute is exempted from customs and excise duties and GST at the rate of 5 % is applicable for the Institute.**

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: _____