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COLLEGE OF TECHNOLOGY AND ENGINEERING
Maharana Pratap University of Agriculture & Technology,
Udaipur – 313 001 Rajasthan

No. CTAE/Estt./ECE/Tender/2025/ 1163-65

Dated: 15-03-2025

17

REQUEST FOR QUOTATIONS

Sealed Quotations, in prescribed format (Annexure-1), are invited on behalf of the Dean, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology Udaipur (Raj.) for the procurement of “**Trainer kits for Communication Lab of ECE department**” as detailed below in the Scope of Supply, from reputed manufacturers/ distributors/ authorised dealers/ stockiest/ registered bidders/ bona-fide dealers/ service provider up to Date and Time Specified below.

IMPORTANT BID DATA:

1. Procuring Entity's address for Bid Submission, clarification, and Opening of Bids	Dean, College of Technology and Engineering Administrative Block, University Campus, Udaipur - 313 001 Rajasthan Phone No.: 0294-2470837; E-mail: ctaedean@gmail.com
2. Deadline for Bid submission	Date : 24-03-2025 Time: 04:00 PM
3. Bid opening	Date : 25-03-2025 Time: 11:00 AM
4. Bid Reference No	CTAE /Estt./ECE/2024-25/RFQ – <u>20</u>

SCOPE OF SUPPLY

S.N.	Name of the Goods / Services / Works with Specifications (including installation requirements, if any)	Approx. Total Cost* (Rs.) inclusive of all Taxes and Overheads
1.	Characteristics of FET trainer kit <ul style="list-style-type: none">• Completely self - contained stand - alone unit.• It should be capable to Study, perform, demonstrate and plot the transfer and output characteristics of a n - channel Field Effect Transistor (FET).• It should have feature to determine (from graph) : Pinch off voltage (V_p) and Drain current (I_d) for zero gate voltage IDSS., Value of forward trans - conductance (g_m) and dynamic resistance.• Built - in two isolated DC regulated power supplies with short circuit protection.• Provision for connecting external voltmeter / current meter as per requirement.• 4mm - 4mm terminated, sturdy, spring loaded patch cords with test points	7,800.00
2.	Characteristics of MOSFET trainer kit <ul style="list-style-type: none">• Completely self - contained stand - alone unit.• It should be capable to Study, perform, demonstrate and plot the transfer and output characteristics of a Metal oxide Field Effect Transistor (MOSFET).	7,800.00

	<ul style="list-style-type: none"> • It should have feature to determine (from graph) : Pinch off voltage (V_p) and Drain current (I_d) for zero gate voltage IDSS., Value of forward trans - conductance (g_m) and dynamic resistance. • Built - in two isolated DC regulated power supplies with short circuit protection. • Provision for connecting external voltmeter / current meter as per requirement. • 4mm - 4mm terminated, sturdy, spring loaded patch cords with test points 	
3.	<p>Characteristics of DIAC trainer kit</p> <ul style="list-style-type: none"> • Completely self - contained stand - alone unit. • It should be capable to Study, perform, demonstrate and plot the V - I (forward and reverse) characteristics of a bi - directional diode (DIAC). • It should have feature to determine (from graph) : Forward break over voltage (VFBO), Reverse break over voltage (VRBO), Negative resistance region, VBO symmetry and Delta V (ΔV). • Built - in DC un - regulated variable power supply of 0 - 50V. • Provision for connecting external voltmeter / current meter as per requirement. • 4mm - 4mm terminated, sturdy, spring loaded patch cords with test points 	7,800.00
4.	<p>Characteristics of TRIAC trainer kit</p> <ul style="list-style-type: none"> • Completely self - contained stand - alone unit. • It should be capable to Study, perform, demonstrate and plot the different characteristics of a bi - directional Triode (TRIAC) under different gate current conditions for + MT2 and - MT2. • It should have feature to determine (from graph) : Forward break over voltage (VFBO).Reverse break over voltage (VRBO).Negative resistance region, VBO symmetry and Delta V (ΔV). • Built - in Built - in two isolated DC un - regulated variable power supplies of: 0 - 50V and 0 - 20V. • Provision for connecting external voltmeter / current meter as per requirement. • 4mm - 4mm terminated, sturdy, spring loaded patch cords with test points 	7,800.00

5.	Characteristics of SCR trainer kit <ul style="list-style-type: none"> • Completely self - contained stand - alone unit. • It should be capable to Study, perform, demonstrate and plot the transfer and output characteristics of a Silicon Controlled Rectifier (SCR). • It should have feature to determine (from graph) : Holding Current (I_H). Latching Current (I_L). Forward break over voltage (V_F). • Built - in two isolated DC variable power supplies of : 0 - 50V (Unregulated), 0 - 5V (Regulated). • Provision for connecting external voltmeter / current meter as per requirement. • 4mm - 4mm terminated, sturdy, spring loaded patch cords with test points 	7,800.00
6.	Pulse Amplitude (PAM) Modulator Demodulator trainer kit <ul style="list-style-type: none"> • Completely self - contained stand - alone unit. • Capable to demonstrate Pulse Amplitude (PAM) Mod / Demod waveform for specified inputs • Built - in IC based DC regulated power supply with short circuit protection and LED indication for supply "ON". • Built - in IC based modulating circuit. • Built - in amplifier to increase detection efficiency. • Test points are provided at various stages in the circuit to observe the waveforms and voltages. 	10,800.00
Total Cost		49,800.00

*Total cost includes basic price, Taxes and other charges, if any.

SPECIAL CONDITIONS (if any)

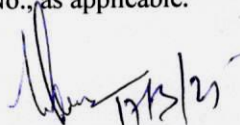
1. The instruments supplied should be installed and demonstrated by a competent engineer of the company with practical training to the technical staff of the department.
2. The items supplied should have at least one year commercial Warranty/Guarantee.
3. The kits should be strongly supported by a comprehensive instruction manual complete with theory and operating details

GENERAL TERMS & CONDITIONS:

1. The bid/quotation must be submitted on official letter head of the bidder in the enclosed format(Annexure-1) and signed by the Bidder and must be properly sealed in an envelope. On the envelope "Quotation for the Supply of [Name of Item/Services.]", "Due date of Opening" and Bid Ref. No. must be clearly marked. If the bid is not sealed and marked as required, the Procuring Entity shall assume no responsibility about its consequences including misplacement and premature opening of the Bid.
2. Quotation shall remain valid for acceptance for a period not less than **30 days** after the deadline date specified for submission.
3. The rates quoted by the bidder shall be in Indian Rupees only and shall remain fixed for the duration of the contract and shall not be subject to adjustment on any account.
4. All taxes like GST, etc. to be charged extra should be shown separately (along with their rate) failing which the rates quoted by the bidder shall be assumed to be inclusive of all taxes and levies.

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5. All rates quoted must be FOR destination and should include all incidental charges.
6. The goods quoted should be as per the required specifications. Any deviations should be mentioned in the quotations.
7. **Wherever applicable, the Make and Model No. of goods offered and their technical leaflet/brochure must invariably be enclosed, failing which the bid may be rejected.**
8. The Procurement Entity will award the contract/Supply Order to the bidder whose quotation has been determined to be substantially responsive, conform to the terms & conditions, and specifications and who has offered the lowest evaluated quotation price.
9. Notwithstanding the above, the Procurement Entity reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time without assigning any reason.
10. Quantities given are approximate and the final order may be placed for more or less quantities.
11. The bids for the items, wherever indicated, will not be accepted without samples.
12. In all future references the **Bid No.** must be invariably mentioned.
13. **Normal commercial warranty/ guarantee shall be applicable to the supplied goods.**
14. The bidder has to mention their PAN/GST No. in their quotations otherwise their bids are liable to be rejected.
15. **Payment shall be made after successful installation and commissioning** of good/services against printed, pre-receipted, and pre-stamped invoice/bill mentioning GST No., as applicable.


DEAN, CTAE

FORMAT OF QUOTATION

(To be submitted on the Letter head of the Bidder)

S.N.	Name of the Goods/ Services/Works with Specifications (including installation requirements, if any)	Unit	Quoted Unit Rate in Rs. (In Fig. and Words) inclusive of all Taxes	Total Cost inclusive of all Taxes	Remarks if any
(1)	(2)	(3)	(4)	(5)	(6)
1.	Characteristics of FET trainer kit	1 Nos.	Fig. _____ Words: _____		
2.	Characteristics of MOSFET trainer kit	1 Nos.	Fig. _____ Words: _____		
3.	Characteristics of DIAC trainer kit	1 Nos.	Fig. _____ Words: _____		
4.	Characteristics of TRIAC trainer kit	1 Nos.	Fig. _____ Words: _____		
5.	Characteristics of SCR trainer kit	1 Nos.	Fig. _____ Words: _____		
6.	Pulse Amplitude (PAM)Modulator Demodulator trainer kit	1 Nos.	Fig. _____ Words: _____		

DECLARATION

- (a) I/We declare that I am/ we are Manufacturers/ Whole sellers/ Sole distributor/ Authorized dealer/ bonfire dealers in the Goods and Related Services or Services/Works for which I/We have Bid.
- (b) I/We agree to supply the above goods/Services in accordance with the technical specifications within the period specified in the Bidding Documents. I/We further agree that our rates, if approved, shall remain valid for further 3 months from the Last Date of Submission of Quotations.
- (c) We also confirm that the normal commercial **Warranty/Guarantee** of ____ months shall apply to the offered goods.
- (d) I/We have not been debarred by the State Government or the Procuring Entity.
- (f) If this declaration is found to be incorrect or I/We fail to supply the goods/services, then without prejudice to any other action that may be taken, the Supply Order/Bid, if any to the extent accepted, may be cancelled and I/We may be debarred from participating in future bids as per rules.

Signature of Bidder

Name & Address of Bidder: _____

Contact No. _____

PAN No. _____

GST No. _____