



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

At. Po. Lonere, Tal. Mangaon, Dist. Raigad 402 103 MS (www.dbatu.ac.in)

INVITATION FOR QUOTATION

06 FEB 2025

Our Ref No. : DBATU/Store /EXTC(Diploma)/APE Lab/2025/ 403

Date: 05/02/2025

Quotation For : Trainer kits required in Analog and Power Electronics laboratory

Due On: 12/02/2025

Date of Opening: 13/02/2025

Time: 04:30 pm

To,

Sub: QUOTATION FOR THE SUPPLY OF STORE

Dear Sir,

Your quotation for the items listed overleaf, may please be submitted to the under signed, so as to reach this Office not later than 12/02/25 up to

While submitting your quotation, the following procedure may please be observed and other points borne in mind.

1. The maker's name must be specified.
2. The "Terms and Conditions" for supply and delivery of stores, should be clearly indicated in the quotation, stating whether rates are, inclusive of all taxes, Packing and forwarding charge, Freight charges, etc. or not, however rates offered as including all taxes will be more welcome.
3. If packing and forwarding charges are to be charged separately, it should be so clearly stated in your quotation.
4. Please mention clearly whether consignment would be Ex-Godown, Ex-Shop, of F.O.R. dispatching stations. Preferably terms offered as "Delivery of consignment of stores, on F.O.R."
5. Envelope should be super-scribed "**Quotation for reference No..... of dated.....**" It should also be superscripted as per the format given above.
6. The quotation would be opened as per date and timing given above, if desired by you, you may depute an authorized representative with a letter of authority to be present at the time of opening of the quotation at this Office on the aforesaid day, date & time.
7. Your quotation must be valid for a minimum 30 (Thirty) working days from the date of it's opening.
8. Quotation received after the date of opening may not be taken into consideration.
9. Items tendered should confirm to the specification shown in the attached list when and where, full or no specifications are indicated against items in the list. Kindly furnish your full specification in accordance with accepted standards against each item tendered. Where reference to catalogue is made, the relevant catalogues/ Pamphlets/ Literature should accompany the quotation.
10. Your quotation should be for all new items and not for second hand.
11. Please state whether items will be available Ex-Stock. If not the minimum period for delivery, or for supplying the items or stores.

12. It should be clearly stated whether **GST**, Insurance, Freight or packing and forwarding charges, or any other taxes and duties, etc. leviable.
13. It would be appreciated if illustrated catalogues/Literature etc is furnished with the quotation.
14. Expression to as "Complete with standard Equipment" complete with standard accessories "Equipment to" As good as should be avoided. If at all their use is unavoidable then it should be very specifically indicated as to what exactly they mean and what exactly would be supplied under them. Any ambiguity or vagueness should be avoided.
15. For convenience, kindly adopt while quoting the same serial Nos. as given in the list detailed below.

Thanking You.

Yours faithfully,



Registrar

Dr. Babasaheb Ambedkar Technological University, Lonere

List of Items

| Sr. No. | Description | Make | Approx. Qty Req. | Rate per / Each / Unit | Remarks |
|---------|---|------|------------------|------------------------|---------|
| | <ul style="list-style-type: none"> • Trainer kits in Analog and Power Electronics laboratory <p>As per details Annexure - I</p> | | ----- | | |

➤ Quantity may vary

Annexure - I

| Sr. no. | Description | Specifications | Qty (nos.) |
|---------|-----------------------------|---|------------|
| 1 | Op-Amp Application trainer | <p>Op-amp trainer kit able to perform following experiments</p> <ul style="list-style-type: none"> • Study and observe Op-Amp as Voltage Comparator • Study and observe Op-Amp as Zero Crossing Detector • Study and observe Op-Amp as a Phase Shift Oscillator and its phase shift at every RC combination • Study and observe Op-Amp as a Function generator, generating Square and Triangle wave • Study and observe Op-Amp as a Half Wave Precision Rectifier • Study and observe Op-Amp as active second order High Pass Filter • Study and observe Op-Amp as a Wien Bridge Oscillator and its gain factor for a smooth sine wave Op-Amp Applications <p>Technical Specification Should have on board Function Generator for Sine Wave, Square Wave, Triangular Wave On board variable DC Power ports:0-5V Various Test Points with plated terminals The kit should be functional on AC Power Supply: 180V-260V at 50Hz Operating Conditions:0-40°C, 85% RH Weight: It should be Portable Learning material should be provided Should include all accessories like Patch cords, Mains cord and Power supply</p> | 01 |
| 2 | Single Phase Cycloconverter | <ul style="list-style-type: none"> • Students able to perform Study firing circuit of single-phase cycloconverter. Study single phase mid - point cycloconverter with resistive and inductive load. • Technical Specifications: On board firing circuits with Ramp comparator firing scheme with Firing angle variation: Gradual variation from 0 to 180 degree <ul style="list-style-type: none"> • On board SCR assembly: min 400V and 2A • Pulse transformer • Test points • Able to operate from Mains Supply: 180V to 260V, 50 Hz • : 9 nos • Trainer kit must Include all Accessories, Patch cords and Mains cord | 01 |

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|---|---|--|----|
| 3 | MOSFET, IGBT, Transistor & SCR based Step Up Chopper | On trainer kit students able to perform Transistor based/SCR/MOSFET/IGBT/ based Step Up Chopper with R load, RL load. Technical Specifications: On board PWM circuit : Triangular wave comparator scheme with Frequency variation : 50 Hz to 5 KHz and PWM variation, On board MOSFET, IGBT, Transistor, SCR The kit must include with Patch cords and Mains cord | 01 |
| 4 | MOSFET, IGBT, Transistor & SCR based Step Down Chopper | On trainer kit students able to perform Transistor based/SCR/MOSFET/IGBT/ based Step Down Chopper with R load, RL load with Motor load. Technical Specifications: On board PWM circuit : Triangular wave comparator scheme with Frequency variation : 50 Hz to 5 KHz and PWM variation, On board MOSFET, IGBT, Transistor, SCR The kit must include with Patch cords and Mains cord | 01 |