



INVITATION FOR QUOTATION

04 SEP 2024

Our Ref No. : DBATU/Store /Elect. Engg (Diploma wing)/ Trainer kit /2024/2608 Date: 04/09/2024

Quotation For : AC/DC Motor braking methods trainer kit

Due On: 23/09/2024

Date of Opening: 24/09/2024

Time: 11.30 am

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 **23/09/2024**

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,s 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 superscribed 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 second1 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
1.	AC/DC Motor braking methods trainer kit Annexure – I		01		

➤ Quantity may vary

# Annexure – I

## Technical Specification for AC/ DC Motor braking methods trainer

### ❖ Control Panel Technical Specifications:

#### Three phase Power Supply:

- MCB 4 pole, 4 Amp, 415V AC, 50Hz.
- RYB power input Indicator (22 mm) x 3 Nos.
- Volt meter 415V AC (72x72mm)

#### Three Phase DOL Starter:

- Contactor 9 Amp. 415V, 50 Hz, 3 Pole, 1 NO.
- Contactor Coil: 230V, 11VA.
- Bimetallic over load thermal Relay.
- Relay Range 1.4A - 2.3A. (Set: 2.3 Amp.)
- Start-Stop Push Button Switch.
- DOL ON Red Indicator (22mm)

#### Multi-function Bi-directional Power Measurement:

- Digital Bi-directional Multi-function meter (96X96mm).
- 3 Phase 3/4 wire, Voltage line to line & line to neutral.
- Measurement of 415V, 3 ph. & 230V, 1 ph. parameters.
- Measures V, I, Hz, PF, KW, KVA, KVAR, Energy in KWh.
- Current for all 3 ph. up to 5A. (Inbuilt CT 5A:5A x 3 Nos.)
- LCD/LED display, Reverse Power Indication.
- Aux. Supply 230VAC, 45-65Hz, 5W
- Optionally PC interface with RS485 (Power Analyzer)

#### ON OFF ON, FWD/REV:

- Three Ph. ON-OFF-ON with FWD/REV, 3 pole 3-way switch with Centre OFF, 6A/440V.
- Power ON Red Indicator (22 mm)

#### Variable AC/DC Power Supply:

- 230V AC Input, 0 to 270V AC, 3Amp Output.
- Diode Bridge AC to DC, 0 to 260V DC, 3Amp. Output
- ❖ Full bridge Diode based.

#### DC Voltmeter & Ammeter (2 nos.):

- Voltmeter; 0 to 300V DC (72x72mm)
- Ammeter: 0 to 5A DC (72x72mm)
- Polarity protection diode.
- Circuit Breaker for over load protection.

#### Three Phase Resistive(R) Load:

- Selector switch, 3 ph., 3 pole, 7 Way, 10A/440 V.
- Resistors 10K-5K-3.5K-2.5K-2K-1.5K-OFF/200W, 7 Steps

#### Over current & elapsed time measurement:

- Consists of AC ammeter of 20A.
- Elapsed time counter range 999.001 sec, resolution 1 msec.
- ❖ Accessories: Patch Cord, Manual.

### ❖ Motor Technical Specifications: -

#### 1) DC Shunt Motor

**Volt:** 220V Arm. & Field, **HP:** 0.5HP / 2 Pole **RPM:** 1500RPM, **Terminals:** 4

**Rotor:** Standard commutator / brush arrangement with laminated stack, brought out on 2 terminals.

**Stator:** Separately excited field winding with laminated solid yoke 2 pole and series winding brought out on 4 terminals.

#### 2) Three Phase Slip Ring Induction Motor

**Volt:** 415VAC, 50Hz, **HP:** 0.5/4 Pole m/c, **RPM:** 1500, **Terminals:** 9

**Rotor:** Star connected 3 terminals brought out on slip rings mounted on shaft.

**Stator:** brought out on 6 terminals.