



INVITATION FOR QUATATION

Our Ref No. : DBATU/Store/Elect.Engg.Dept./ Bucholz Relay Trainer Kit/2024/2010

Quotation For: Bucholz Relay Trainer Kit

Date of Opening: 06/08/2024

23 JUL 2024

Date: 20/07/2024

Due On: 05/08/2024

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 05/08/2024

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 superscripted as per the format given above.
6. The quotation would be opened as per date and timing given above, if desired by 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 Reg.	Rate per / Each / Unit	Remark
1.	Bucholz Relay Trainer Kit		01		

Bucholz Relay Trainer Kit Specifications

- **Control Panel Technical Specifications:**
- **Single phase Power Supply Panel:**
 - MCB 230V AC, 50Hz. 1 pole/6 Amp.(3 Nos.) 1 pole/10 Amp.(1 No.)
 - Output Terminals: 230V, 6 Amp.(3 Nos.) & 10 Amp.(1 No.)
 - Red Power Indicator (22 mm), Lamp Holder.
 - 8A push button switch (Simulate as centrifugal switch) & Resistor 30E/400W. (Provide if Single ph. Ind. Motor supply)
- **Transformer Tank:**
 - Air Tight Acrylic tank to house transformer.
 - Capacity: 1.5 Liter.
 - Tank mounting on MS L plate.
- **Conservator Tank:**
 - Top open Acrylic tank to fill Oil in to Relay.
 - Capacity: 1.5 Liter.
 - Tank mounting on MS L plate.
- **Reservoir / Sump Tray:**
 - MS black painted tray to collect Oil overflow during experiment.
 - Size: 1070(L) x300(W) x30(H) mm.
 - Thickness 2 mm, MS sheet.
- **Piping:**
 - Plastic reinforced 12mm (Ø) piping as air vent -1M
 - Plastic transparent 12mm (Ø) inter device piping -1M
- **Buchholz Relay Panel:**
 - Gas/Oil Operated Relay.
 - Weight = 10Kg.
- **Buchholz Relay terminal Panel:**
 - All the connection of relay are brought out on this panel.
 - NO contact, 2 nos. (Upper & lower mercury Contact) are brought out on terminal plat.
- **Miscellaneous :**
 - ❖ Manual ball wall : SS ¼ inch (6mm) = 1 no.
 - SS ½ inch (12mm) = 2 no.
 - SS ¾ inch (18mm) = 1 no.
 - ❖ Non Return Valve (NRV) : Allow air in to transformer container while

oil is prevented from spilling in to pump.

Line mounting (C110T) = 1 no.

- ❖ Quick Release : To substitute air pump by foot pump easily coupler (QRC) $\frac{1}{4}$ inch (6mm) = 1 no.
- ❖ 6x4 PU tube : To connect Air pump/foot pump to Transformer container = 1.5 mtr.
- ❖ Foot Pump : 150 PSI = 1 no.
- ❖ Air Pump : 230V AC operated
- ❖ Oil mug : 500ml plastic graduated = 2 nos.
- ❖ Nozzles : Brass $\frac{1}{2}$ inch (5), Brass $\frac{1}{4}$ inch (2), Brass $\frac{1}{2}$ inch by $\frac{3}{4}$ inch threading (2) = 9 nos.
- ❖ T Coupler : SS $\frac{1}{2}$ inch inner threading = 1 no.
- ❖ Hose Clips : $\frac{1}{2}$ inch = 7 no.

✓ **Accessories:** Patch Cord, Manual, Dust Cover.

❖ **EXPERIMENT LIST:**

- 1) To perform experiment to operate Buchholz relay to detect gas collected in the relay chamber.
- 2) To perform experiment to operate Buchholz relay to detect low oil level inside relay.
- 3) To perform experiment to operate Buchholz relay to detect surge of oil due to short circuit.