

Dr. Babasaheb Ambedkar Technological University,
P.O. LONERE - 402 103 , Tal. Mangaon, Dist. Raigad

Chemical Engineering Department

Our Ref No.: DBATU/STORES/Chem. Engg/ Heat Transfers Lab -2 Equipments /2022-23/1938 Date:28/ 09/ 2022

Quotation For Heat Transfer Lab Equipments

Due On 17/10/2022

Date of Opening 18/10/2022

Time :11.30 a.m.

To,

Sub: QUOTATION FOR HEAT TRANSFER LAB EQUIPMENTS

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. **17/10/2022**

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

01. The maker's name must be specified.
02. 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 charges Freight charges etc. or not, However rates offered as including all taxes will be more welcome.
03. If packing and forwarding charges are to be charged separately, it should be so clearly stated in your quotation.
04. 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.
05. Envelope should be clearly marked with our reference No and date of this quotation. It should also be superscripted as per the format given above.
06. 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.
07. Your quotation must be valid for a minimum 30 (Thirty) working days from the date of it's opening.
08. Quotation received after the date of opening may not be taken into consideration.
09. 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 are 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,

Sr. No.	Description / Specification	Make	Approx. Qty. Req.	Rate per Unit	Remark
1	Condensation Process (Drop wise & film wise) visualization of the condensation process of water in a transparent tank -two water-cooled tubes as condensers with different surfaces to realise film condensation and dropwise condensation -controlled heater to adjust the boiling temperature -pressure switch and safety valve for safe operation -sensors for temperature, pressure and flow rate with digital display Technical Data Heater -output: 3kW, freely adjustable Condenser -1x tube with matt copper surface -1x tube with a polished gold-plated surface Safety valve: 2200mbar absolute Measuring ranges -pressure: 0...10bar abs. -flow rate: 0.2...6L/min -temperature: 4x 0...100°C, 3x 0...200°C				
2	Free and forced Convection Air duct ▪ flow cross-section: 120x120mm ▪ height: approx. 1m ▪ max. air velocity: 3.2m/s Axial fan ▪ max. flow rate: 170m ³ /h ▪ max. pressure difference: 54Pa ▪ power consumption: 6.5W ▪ nominal speed: 2900min ⁻¹ Heating elements ▪ temperature limitation: max.120oC ▪ max. heating power: 170W ▪ surface of flat plate: 140cm ² ▪ surface of tube bundle: 980cm ² ▪ surface of fins: 1400cm ² Measuring ranges ▪ air velocity: 0...10m/s ▪ temperature: 2 x 0...100oC, 1 x 0...200oC ▪ heating power: 0...375W 230V, 50Hz, 1 phase				