



COEP Technological University

(COEP Tech)

A Unitary Public University of Government of Maharashtra
w.e.f 21st June 2022

(Formerly College of Engineering Pune)

Scaled Quotation are invited by the Department of Mechanical Engineering, COEP Technological University Pune from reputed vendors/reseller/suppliers/service providers for the Approval for Repair, Maintenance, and Upgradation in computerized system of the Experimental Setups in the Heat Transfer Laboratory.

Enquiry Number :-	COEPTU/Mech/Enq/ Approval for Repair, Maintenance, and Upgradation in computerized system of the Experimental Setups in the Heat Transfer Laboratory. /2025-26/ 1950
Enquiry Date:-	16/02/2026
	<p>List of Experiments Requiring Attention:</p> <ol style="list-style-type: none"> 1) Thermal Conductivity of Metal Rod 2) Thermal Conductivity of Insulating Powder 3) Thermal Conductivity of Liquid 4) comparative analysis of different types of Heat Exchangers 5) Stefan-Boltzmann Constant <p>Up gradation of Manual System in to the Computerized System Using Data Acquisition System The Data Acquisition System Consist of :</p> <ol style="list-style-type: none"> 1) All The Measuring Parameters like Temperatures, Voltage, Current, Flow Rate Etc. are displayed, Calculated and stored. 2) Graphical representation of all measuring data against time. 3) Real time data displayed and calculated. 4) Arrangements of data storage and retrieval.
Hardware:	<p>Hardware Components:</p> <ol style="list-style-type: none"> 1)16-Channel Data Logging Device 2)Temperature Sensors (RTD / Thermocouple as applicable) 3)16-Channel Temperature Scanner 4)Digital Energy Meter 5)Water Flow Meter with Modbus Output 6)Electrical Connections, Signal Conditioning Units, and Switches <p>Control System: The control system ensures safe operation, stability, and precise control of experimental conditions.</p> <p>Control Functions: Control of heaters and electrical loads Regulation of power input Monitoring of safety limits (temperature, current, voltage) On/Off control through software or hardware switches</p> <p>Control Elements: Electrical switches and relays Interface modules between sensors and DAQ Power supply and protection devices</p>
Software:	<p>Software Capabilities:</p> <p>Real-Time Data Display: Live visualization of temperature, voltage, current, and flow rate</p> <p>Data Calculation & Processing: Automatic calculation of derived parameters (heat transfer rate, efficiency, conductivity, etc.)</p> <p>Graphical Representation: Graphs of all measured parameters plotted against time Comparative plots for analysis</p> <p>Data Storage & Retrieval: Secure storage of experimental data Retrieval of historical data for analysis and reporting</p> <p>Multi-User Access: Support for multiple users with login-based access User-level permissions</p> <p>Compatibility: Dedicated software compatible with DAQ hardware Supports Modbus and other standard communication protocols</p>

Sr.No.	Name of Experiment	No. of Thermocouples 0-200 °C	Ammeter	Water Supply	flowrate / Liter Per Min	Flowmeter
1	Determination of thermal conductivity of a metal rod	12	0-2 A	Yes	0.3-0.5	Rotameter
2	Determination of the thermal conductivity of an insulating powder.	10	0-2 A	No	-	
3	Determination of thermal conductivity of a given liquid	10	0-2 A	Yes	5-10	Rotameter
4	Heat Transfer coefficient in Natural Convection	9	0-2 A	No	-	
5	Determination of Stefan-Boltzmann constant for thermal radiation.	6	0-2 A	Yes	-	
Total		47				
Quotation Submission Date(@ Time):-		Up to 18/02/2026 @ 3.00 pm				
Quotation Submission Place:-		Establishment Section, COEP Technological University, Wellesley Road, Shivajinagar, Pune-411005				
Quotation Opening Place:-		Head, Department of Mechanical Engineering, COEP Technological University, Wellesley Road, Shivajinagar, Pune-411005				

Terms & Conditions:-

1. Fax and Email quotation are not acceptable.
2. The taxes, insurance, freight, packing and forwarding charges if any be quoted in Indian Rupees separately.
3. The rates shall be valid for **60 days.**
4. Validity: Quotation Validity at least 60 days. from the due date.
5. Quotations shall be sent in sealed envelopes clearly marked Quotation for Supply and Installation of, _____, Enquiry Number, Enquiry date and Enquiry due date
6. addressed to The Head, Department of Mechanical Engineering, COEP Technological University Pune-411 005.
7. 100% payment will be paid after satisfactory delivery, installation and commissioning/work.
8. Please specify the make and model of the item.
9. Quotation(s) received after last date of Quotation submission will be rejected.
10. Delivery/Work Period and Terms Conditions should be mentioned clearly.
11. Delivery/Work: The penalty conditions are applicable for the late delivery as per Government norms.
 - a) at the rate of 0.5 % per week; maximum limit of 10% shall be charged in case of WO value is less than 2 Lakh
 - OR
 - b) at the rate of 0.5 per week; maximum limit of 5% shall be charged in case of PO value is 2 Lakh and above.
12. All following documents/certificates should be provided / attached at the time quotation submission.
 - a) Shop Act License/Incorporation Certificate/Firm Registration Certificate Copy. b) PAN Card Copy
 - c) GST Certificate Copy
13. Optional items should be quoted in separate sheet otherwise your quote will be rejected
14. Supply/Work and Installation:- Vendor shall be responsible for successful installation, commissioning and testing of the supplied items at Department of Mechanical Engineering , COEP Technological University Pune-411005.. Any defective component/device will be replaced by vendor at his cost.
15. The Registrar of COEP Technological University Pune reserves right to reject any one or all the quotation(s) without assigning any reasons there for.



Head
Department of Mechanical Engineering
COEP Technological University