



COEP Technological University

(COEP Tech)
A Unitary Public University of Government of Maharashtra
w.e.f 21st June 2022
(Formerly College of Engineering Pune)

Enquiry Number :-	COEPTU/Mech/Enq/ Approval of purchase of computerised 100LPH Capacity Heat pump Test Rig for Refrigeration and Air Conditioning Laboratory./2025-26/ 1949
Enquiry Date:-	16/02/2026
Description & Qty:-	Heat Pump Test Rig Qty:- 01

Specification :

A) Heat Pump:

SL NO	DESCRIPTION	SPECIFICATION
1	Water output	100L/h
2	Rated Input power	1 kW,
3	Out Put Heating Capacity	4kW,
4	Power Supply	230 V/ 1 PH/ 50Hz
5	Compressor	Rotary type , Make - Highly/ GMCC
6	Heat Exchanger Type	Shell and coil, Neo Make
7	Evaporator Coil	Blue Fins evaporator coil (L type)
8	Fan type	suction fan
9	Fan direction	Vertical
10	Temperature controller	Subzero make
11	Refrigerant	R 417a / R407c/ R438a
12	Set water temperature	55°c
13	Max water Temperature	60°c
14	Unit Dimension (l*b*h) mm	900*320*520
15	Circulation pump(Inbuilt)	Wilco - RS-15/6, 230v
16	Water pipe size	3/4 Inch
17	Net Weight (Kg)	52Kg

B) Storage Tank:

SL NO	DESCRIPTION	SPECIFICATION
1	Capacity and Thickness	200ltr, 3mm Shell, 3mm Dish.
2	Operating pressure	Up to 3 Bar
3	Testing Pressure	4 bar pressure
4	Hot Water Inlet/ outlet	1 Inch,
5	Heat Pump Circulation	3/4 Inch,
6	Outer Tank Insulation	50 mm puff insulated Tank,
7	Temperature drop	3° C / 8 hour
8	Inner and outer Tank	GL Coated
9	Tank direction	Horizontal / Vertical
10	Other Solar Provision Additional Heat Pump Provision	

C) DAQ Software:



Software Capabilities:
Real-Time Data Display
Live visualization of temperature, voltage, current, and flow rate
Data Calculation & Processing
Graphical Representation:
Graphs of all measured parameters plotted against time
Comparative plots for analysis
Data Storage & Retrieval:
Secure storage of experimental data
Retrieval of historical data for analysis and reporting
Multi-User Access:
Support for multiple users with login-based access
User-level permissions
Compatibility:
Dedicated software compatible with DAQ hardware
Supports Modbus and other standard communication protocols.

Location:-	Department of Mechanical Engineering
Quotation Submission Date@ Time:-	Up to 24/02/2026 @ 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 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 PO 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.
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.



Department of Mechanical Engineering
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