



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur

ENQUIRY NO. IITK/CHM/MKG/2016-17/09

ENQUIRY DATE: 26.8.2016

CLOSING DATE: 09.09.2016

SUB: REQUEST FOR QUOTATION FOR ROTARY EVAPORATOR, VACUUM PUMP, AND CHILLER.

Dear Sir/Madam

Kindly send us a sealed quotation (technical and financial) for the following item. Quotation should be addressed to **Dr. Manas K. Ghorai, Department of chemistry, IIT Kanpur, 208016**, and must reach on or before 9th September, 2016.

TECHNICAL SPECIFICATIONS FOR ROTARY EVAPORATOR, VACUUM PUMP, CHILLER

A. SPECIFICATION FOR ROTARY EVAPORATOR

Vertical condenser.

Hand lift

Manual height adjustment: 155mm

Rotation speed: 20-280 rpm

Rotation speed setting: scale

Digital display of set and actual heating bath temperature

Heating bath accommodates: 5 liter flask

Heating bath temperature: 20-210 °C

Bath overheat protection: cut off at 5 °C

(over set temperature via separate PT1000)

Heating bath material: stainless steel AISI 316L

Heating bath volume: 4.5 litre

Heating bath diameter: 255

Heating capacity: 1300 watt

Bath temperature setting: scale

Secondary cut of protection: 250 °C

Evaporatory flask 1 liter

Receiving flask 1 liter

Manual vacuum controller part no. 591-26000-00

B. SPECIFICATION FOR VACUUM PUMP

Two-stage diaphragm pump made of chemically resistant materials

High suction capacity of **2.0 m³/h** for fastest evacuation.

Suction capacity for up to **3 rotary evaporators** at the same time.

Ultimate vacuum pressure **7 mbar**

Minimal bench space requirements

Power input: 180W, weight: 10.5 kg, supply voltage: 230V/50 Hz

C. SPECIFICATION FOR CHILLER

Chiller for all standard applications

Temperature range from -10 °C to +40 °C

Digital display for temperature setting and read out actual temperature

Cooling capacity at +20 °C: 580W

Foot print of chiller: L360 /W310 / H520 mm

NOTE:

- a) Since vacuum pump and chiller will be connected and used for only rotavapor, all three items (rotavapor, vacuum pump, and chiller) should be quoted by same vendor.
- b) Prices should be quoted in indian rupees only and should include the cost of shipping to IIT Kanpur.

Dr. Manas K. Ghorai
Lab: SL -208C (southern lab)
Department of Chemistry
Indian institute of technology
Kanpur, U.P, 208016