



भारतीय
प्रौद्योगिकी
संस्थान
काशी हिन्दू विश्वविद्यालय



INDIAN
INSTITUTE OF
TECHNOLOGY
BANARAS HINDU UNIVERSITY

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**DEPARTMENT OF CHEMISTRY
INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI
ENQUIRY FOR ROTARY EVAPORATOR**

Ref: CHY/IIT (BHU)/Web-ENQ-01

Due Date: 18-01-2016

Date: 18-12-2015

To

Dear Sir,

Please submit your lowest rate for supplying the under mentioned items. Quotation in duplicate must reach us before the date marked above and should contain the following information:

1. Full specification and make of the item offered and its rate F.O.R. Varanasi/CIF New Delhi.
2. Sales tax at concessional rate as applicable to educational institution.
3. Your sales tax registration number and TIN number.
4. Conditions of supply and terms of payment.
5. If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.
6. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
7. Please give undertaking as per annexure-I-C.
8. The rate quoted should include transportation cost up to IIT (BHU), Varanasi, clearly mentioning the percentage/range of sales tax or all other taxes and duties inclusive and rates should be valid for at least 90 days from the date of opening the quotation. **The educational discount should be separately mentioned in percent as well as in net amount.**
9. **This purchase being for teaching and research purpose, the IIT (BHU) is eligible for the payment of custom duty at reduced rates and the rates should be quoted accordingly.**
10. **The IIT (BHU), Varanasi, is eligible for "Excise duty exemption" and the rates should be quoted accordingly.**

Quotation must be sent in a **sealed envelope** with word "**QUOTATION**", our reference number, and due date as given above, clearly marked over it.

Sl. No.	ITEM	Approx. Qty.
1.	<p>Specifications for Rotavapor, Vacuum Pump and Chiller:- All components like Rotavapor, vacuum pump, vacuum controller and Chiller should be from same manufacturer. Company/Vender should have local service support.</p> <p>SPECIFICATIONS FOR ROTAVAPOR</p> <ul style="list-style-type: none"> ☞ Manual action jack lift for lifting of evaporation flask. ☞ Rotation speed of 20 to 280 rpm or better. ☞ Digital bath temperature display of both set and actual temperature, Controlled range from 20 to 95deg C with an accuracy of ± 2 deg C. ☞ Evaporating flask from 50-4000 ml can be used on the same joint adapter without additional connections. ☞ Continuous vapor duct with multifunctional combi-clip for safe removal of evaporation flask/vapor duct. ☞ Vertical Glass Assembly. ☞ Over temperature protection of water bath. ☞ 1 liter Evaporating Flask and Receiving Flask should be provided in standard scope of supply. ☞ All display parameters like water bath temperature, vacuum etc. should have a separate electronics and not on single control panel. <p>SPECIFICATIONS FOR VACUUM CONTROLLER</p> <ul style="list-style-type: none"> ☞ Modular (not integrated) vacuum controller and large graphic display screen. ☞ Measuring range: 1400- 1 mbar. Control range: 1100- 1 mbar. ☞ Automatic aeration when pressure above 1400 mbar. ☞ Timer function for process termination after pre-specified time ☞ Automatic On/Off function for Vacuum pump and Chiller. ☞ Provision for display of Chiller temperature and control. <p>SPECIFICATIONS FOR VACUUM PUMP</p> <ul style="list-style-type: none"> ☞ Two step(heads) vacuum pump with a suction capacity of 1.5 m³/h. ☞ Ultimate vacuum – 10 mbar ☞ 2 stage diaphragm made of PTFE. ☞ ECO² mode- ECO² mode is automatically activated after 1 hour of operation, hence the pump does not work on its full capacity. In the ECO2-mode the pump consumes less electrical power and works under reduced stress. As a consequence, the overall maintenance costs will be reduced over the lifetime of the pump. ☞ Soundproofing with enclosed housing to minimize noise and vibrations. ☞ Should be supplied with woulff bottle and Silencer. <p>Recirculating Chiller</p> <ul style="list-style-type: none"> ☞ Compact and Robust Re-circulating Chiller with a cooling capacity of 500 Watts at 15 deg ☞ Digital display for Set and actual temperature ☞ Temperature Range: -5 deg c to 25 deg C ☞ Pump Capacity: 2.5 liters/min at 0.6 bar ☞ Coolant: CFC Free 	1

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