



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

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Enquiry No. TIET/CS/AA/SCBC/18210&211

Dated : July 19-2018

Sub: Request for Quotation(s) for supply of Rotary Evaporator & Recirculating Chiller

Dear Sir

We shall be grateful if you kindly let us have your lowest quotations for the following materials/equipment. THE QUOTATIONS SHOULD REACH THE UNDERSIGNED LATEST BY 02-August-2018 through courier or e-mail (quotation sent by mail from distant locations needs also to be validated through courier/ regd post as hard copy) accompanied by appropriate illustrative literature/catalogues/pamphlets/technical details and specifications as the case may be.

On the quotation envelope/ subject the Enquiry Number & Date should be mentioned on the top of the Envelope/mail subject, quotation received after due date will not be considered and it must split and submitted in technical bid and commercial bid separately with technical bid to have list of references for same equipment/material supplied.

Sr. No.	Item Name	Qty.
1.	Rotary Evaporator and Recirculating Chiller Specifications as per attached sheet	01 each

The offer sent by you must furnish the following mandatory details / enclosures in price bid:

1. Name, Make & specifications of each item.
2. Cost of the item with MRP.
3. Educational discount if any.
4. Validity of quotation should be at least 60 Days.
5. GST extra.
6. Delivery FOR Thapar Institute of Engineering & Technology, Patiala/ CIP Delhi for import products kindly mention HSS code of each product and attach copy of BOE of item last cleared in support
7. Insurance, Freight & other charges if any.
8. Minimum Delivery Period.
9. Payment terms. Net 30 days against delivery or satisfactory installation at Thapar Institute whichever applicable
10. Guarantee / Warranty Information.

Regards,

Sd/-

Head Commercial

Rotary Evaporator	<ol style="list-style-type: none"> 1. All components like Rotary Evaporator, Controller and Recirculating Chiller should be from the same Manufacturer/Company. 2. Company/Vender should have local service support and service engineer must attend the complaint within 48 hours. 3. Warranty of Rotary Evaporator System should be 2 years from the date of installation. <p><u>Rotavapor</u></p> <p>Vertical condenser for all standard distillations for smallest space with motorized lift.</p> <p>Vertical Condenser 1400 cm2 or better</p> <p>Purest results by innovative sealing technology with a new ventilation and replenishment valve as well as new FKM and FFKM vacuum seals</p> <p>Auto Lift in case of power loss.</p> <p>Evaporating flasks and 2-receiving flask 1000ml and vapour tubes should be supplied with standard ground join NS 29/32,</p> <p>The coupling ring and the flange on the condenser side of the drive should be made of PPS (PolyPhenylene Sulfide), for robustness and with chemical resistance.</p> <p>All glassware set should feature GL 10 thread</p> <p>Should have long life graphite filled PTFE vacuum seal</p> <p>With non-sticking quick release vapour tube for easy cleaning, vapour tube should have large bore for fast distillation rates up to 1200 ml (H₂O)/hour</p> <p>The operating panel should be detachable allowing users of highest level of convenience to control the parameter change outside the fume hood.</p> <p>With convenient large dial controls for adjustments of rotation speed from 20 – 280 rpm</p> <p>With microprocessor controlled heating bath temperature 20° C – 210° C with digital display of bath temperature with heating capacity of 1400 W.</p> <p>The heating bath should be adjusted horizontally up to 200mm and should offer efficient space to accommodate evaporating flasks from 50ml to 5000ml</p> <p>Should have 3.5" LCD digital graphic display which should feature all parameters (rotation speed, vapour temperature etc bath temperature.</p> <p>Should be offered with Vapour Temperature Sensor.</p> <p>Should have process timer which can allow unattended operations</p>
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	<p>Should have auto start and stop with just one press of a button</p> <p>Heating bath should have non-slip safety handles for safe and easy transport of bath</p> <p>Should have over heat cut-off protection at 220° C</p> <p>Heating bath should be constructed of an insulated double wall for user protection against burns and scalding.</p> <p>Material of construction of heating bath should 1.4404 / ASIS 316 L (L = Electro-polished)</p> <p>Volume of Heating Bath: 4.5 Ltrs</p> <p>Set bath temperature on display accuracy: +/- 1° C</p> <p>Protection Class: IP 67</p> <p>Woulf bottle</p>
Re-circulating Chiller	<p><u>Re-circulating Chiller</u></p> <p>Temperature range -25 to +75 deg C</p> <p>Temperature stability +/-0.1 deg C</p> <p>Temperature Indication Digital TFT</p> <p>Display resolution 0.1</p> <p>Bath Filling volume 4-6 liters</p> <p>Heating capacity 1500 W</p> <p>Cooling capacity 380 W at 20 deg C</p> <p>300 W at 10 deg C</p> <p>230 W at 0 deg C</p> <p>180 W at - 10 deg C</p> <p>150 W at - 20 deg C</p> <p>Power supply 230 V / 50 Hz</p> <p>Refrigerant R 134 a CFC Free</p> <p>Cooling compressor Air cooled</p> <p>Weight Net 30 kg</p> <p>Dimensions L x D X H cm 28 x 40 x 50 cm</p> <p>Pump Flow Rate 17 LPM max</p> <p>Pump Pressure 330 bar max</p> <p>Material of construction SS 316 L- All wetted parts and interior. External MS powder coated</p> <p>Warranty 24 months</p> <p>Free Service 36 months</p>