Sealed quotations are invited from reputed companies for the purchase of VERTICAL ROTARY EVAPORATOR WITH VACUUM PUMP AND CHILLER. The quotations must reach to the undersigned latest by 3.00 P.M. on 15th February 2016. Tenders in separate envelopes of technical and financial bids kept in one sealed outer envelope should be submitted to the undersigned as per the specifications given.

Professor Diwan S Rawat
Project Investigator
Block-A, Department of Chemistry,
University of Delhi, Delhi - 110 007, INDIA

Terms and Conditions

1. Technical and financial bids must be kept in separate sealed envelopes.
2. The vendor should be the original manufacturer, authorized distributor or dealer.
3. The vendor should have proven ability of supply of listed equipment to reputed organizations including government departments, copies of purchase order should be included as a proof.
4. The bidder should have sufficient service back-up in Delhi/NCR in related works, and documentary proof of the same may be submitted.
5. The vendor should have at least five year experience and focus on related business and documentary proof of the same may be submitted.
6. The vendor should have sound financial standing. Audited balance sheet of last three financial years certified by Chartered Accountant should be provided as a proof of it.
7. The firm must submit an Undertaking on its letter head that they have not been blacklisted by any State Government/Central Govt./PSU Department in India.
8. Original printed brochures and original specification sheets (from equipment manuals) directly obtained from manufacturer must be enclosed along with supporting data.
9. The brochures must indicate all the parts mentioned in the technical bids.
10. List of the users must be enclosed and a separate list of users in Delhi and NCR may also be provided.
11. Only those quotations will be considered valid who submits quote for the entire three components: (1) the VERTICAL ROTARY EVAPORATOR WITH (2) VACUUM PUMP & (3) CHILLER.
12. MINIMUM THREE YEARS WARRANTY.
13. The Department reserves the right to accept or reject any or all the quotations without assigning reasons thereof.
14. Manufacturing firm must have ISO 9001: 2008 certification and CE certification or better.
15. Hard copy of printed original catalogs must be submitted along with the quotation.
FINANCIAL BID MUST CONTAIN THE FOLLOWING:

1. Prices should be for the Delhi University against CDEC & DSIR and include all taxes, delivery and installation.
2. Guarantee or warranty condition must be clearly specified.
3. Validity of quotation must be at least 120 days from the date of submission.
4. Mode of payment must be specified.
5. Cost of installation & training should all be included in above quoted prices.

TECHNICAL SPECIFICATIONS FOR VERTICAL ROTARY VACUUM EVAPORATOR, VACUUM PUMP AND CHILLER.

A. ROTARY VACUUM EVAPORATOR WITH MOTORISED AUTO JACK-UP FUNCTION DURING POWER FAILURE (with digital water bath)

- Driving Unit: Encased induction motor with electronic speed control
- Condenser: Vertical Double spiral glass coil
- Drive Unit: Motorized drive unit
- Jack up Function: Electronic quick action jack and automatic lifting of the flasks during a power failure
- Rotation Speed: up to 280 rpm or better with microprocessor control.
- Display: digital display of rotation speed and heating bath.
- Speed display: Digital
- Sample Flask: 1L, Pear Style, Ts 29/38
- Receiving flask: 1L, round style with ball joint.
- Evaporating flask from 50-4000 ml can be used on the same joint adapter without additional connections.
- 1 liter Evaporating Flask and Receiving Flasks should be provided in standard scope of supply.
- Vacuum seal: PTFE seal (seal should also be covered in standard warranty period of three year)
- Liquid Contact parts: Glass & PTFE
- Includes with Digital Water Bath
  - Temp. control range: Ambient temp. to 210° C or higher.
  - Accuracy: ± 1°C
  - Bath features: Inner Teflon coating and outer heat resistant cover
  - Bath capacity: should be between 4 to 5L
  - Temp controller: Microprocessor based PID Control
  - Safety features: Overheating protector, auto cut off at 5°C secondary over temperature cut off 250°C

B. VACUUM PUMP:
- Two stage oil free diaphragm pump made from chemically resistant material.
- Suction capacity in m³/hour: 2.0 m³/h or better.
- Vacuum pump should have ultimate vacuum of 7mbar or better.
- Power input in watt: 180
• Supply voltage (V/Hz): 230/50.

C. **CHILLER**
- Temperature range: -10°C to ambient
- Precise temperature control of ± 0.2°C
- Flow: more than 6l/min
- Cooling capacity upto 560 watts @20°C
- Fluid level indicator.
- Low flow shut off and high/low temperature alarms.
- Digital display

**Note:** All parts must conform to the Supply Voltage (V/Hz) of 230/50.

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