

TENDER NOTICE
DEPARTMENT OF CHEMISTRY
GOVERNMENT SCIENCE COLLEGE CHATRAPUR, GANJAM 761020

Sealed quotations are invited from reputed companies/suppliers for the procurement of (1) **rotary evaporator (vertical model)** (2) **diaphragm vacuum pump**, (3) **digital temperature controller**, (4) **low temperature water circulator** and (5) **deep freezer**. The quotations must reach the undersigned by 4.00 P.M. on 09th September 2025. 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.

Dr Laxmi Narayan Sahoo
Principal Investigator, MRIP
Department of Chemistry,
Government Science College Chatrapur
Ganjam, Odisha 761020

Terms and Conditions

1. The technical and financial bids must be kept in separate sealed envelopes inside one sealed envelope.
2. The vendor should either be the original manufacturer or an authorised distributor/dealer.
3. The vendor should have proven ability for the supply of the listed equipment to reputed organisations, including government departments. Copies of the purchase order and supply order should be included as proof.
4. The bidder should have sufficient service back-up at Chatrapur/Berhampur in related works, and documentary proof of the same may be submitted.
5. The vendor should have at least five years of experience and focus on related business, and documentary proof of the same must be submitted.
6. The vendor should have sound financial standing. Audited balance sheet of the last three financial years certified by a Chartered Accountant should be provided as proof of it.
7. The firm must submit an Undertaking in affidavit form that they have not been blacklisted by any State Government/Central Government/PSU Department in India.
8. Original printed brochures and original specification sheets (from equipment manuals) directly obtained from the manufacturer must be enclosed along with supporting data.
9. The brochures must indicate all the parts mentioned in the technical bids.
10. Only those quotations will be considered valid that submit a quote for the entire four components: (1) **Rotary evaporator (vertical model)**, (2) **Diaphragm vacuum pump**, (3) **digital temperature controller**, and (4) **Low temperature water circulator**.
11. Each product must have a minimum of **Two** years warranty.

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12. The Principal Investigator reserves the right to accept or reject any or all the quotations without assigning reasons thereof.

13. The manufacturing firm must have ISO 9001: 2008 certification and CE certification or better.

14. The hard copies of printed original catalogues must be submitted along with the quotation.

FINANCIAL BID MUST CONTAIN THE FOLLOWING:

- The final Prices must include all taxes, delivery and installation.
- Guarantee or warranty conditions must be clearly specified.
- Validity of quotation must be at least 120 days from the date of submission.
- Mode of payment must be specified.
- Cost of installation & training should all be included in the above quoted prices.
- Final payment will be made after installation, demo by the service personnel appointed by the supplier.

TECHNICAL SPECIFICATIONS FOR VERTICAL ROTARY VACUUM EVAPORATOR, VACUUM PUMP, CHILLER AND DEEP FREEZER

A. ROTARY EVAPORATOR (VERTICAL MODEL)

- Lift Type: Manual
- Condenser Type: Vertical
- Cooling Surface Area: 1500 cm²
- Rotation Speed (RPM): 20-320
- Vapour Tube: Single piece with Sleeve for Easy Removal
- Integrated Combi-Clip: Yes
- Suitable flask size (ml): 50-5000 ml
- Rotation speed setting: LED Display
- Motor Power (W): 60
- Heating Capacity (W): 1300
- Temperature Range (°C): 20 – 210
- Temperature Accuracy (°C): 1
- Overheat Protection: Safety cut off over +5 (°C)
- Temperature Setting: Digital LED
- Temperature Control: Electronic PID Control
- Secondary Protection: Cut off 250°C
- Material Heating Bath: Ceramic Coated
- Volume Heating bath (L): 4.5L - Dia 255 mm, Suitable 50- 5000ml
- Bath Position: Flexible to extend, to suit flask size
- Sealing ring: Graphite filled PTFE
- Forward & Reverse Motion (Clockwise & Anti Clockwise) of Evaporation Flask
- Timer: 0 to 99 minutes

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- Power Supply: 230 VAC, 50Hz
- Sample Flask : 1L, Pear Style
- Receiving flask: 1L, round style with ball joint

B. VACUUM PUMP:

- Two-stage oil-free diaphragm vacuum pump made from chemically resistant material.
- Number of heads / stages: 2/2
- Max. Pumping speed at 50 Hz: min. 2 m³/h or 1.2 cfm
- Ultimate vacuum (abs.): min. 9 mbar/ 7 torr
- Ultimate vac. (abs.) with gas ballast: min. 14 mbar/11 torr
- Ambient temperature range (operation): 10-40 °C
- Max. Back pressure (EX) (abs.): min. 1.1 bar
- Inlet connection (IN): 10 mm
- Outlet connection (EX): 10 mm
- Rated motor power: min. 0.18 kW
- Rated speed at 50/60 Hz: min. 1440 min⁻¹
- Noise level at 50 Hz, typ.: max. 45 dBA

C. DIGITAL VACUUM CONTROLLER

- Measurement Range: 0 to 1000 mbar
- Measurement Accuracy: +/- 1 mbar
- Vacuum Connection: 10 mm
- Ambient temp. range (operation) +10 °C to +40 °C
- Max. permissible temp. of gaseous media: + 80 °C
- Supply: 230 V AC, 50 Hz.

D. LOW TEMPERATURE WATER CIRCULATOR

- Working temperature range : -20°C to ambient
- Precise temperature control of $\pm 0.1^\circ\text{C}$
- Flow: at least 12 L/min
- Pump pressure: 0.7 bar
- Cooling capacity up to 500 watts @0°C
- Bath capacity: at least 4.5 L
- Fluid level indicator.
- Digital display

E. DEEP FREEZER

- Convertible Freezer: switch between freezer and cooler modes
- Double Door Deep Freezer: With 320 litres storage capacity

- Efficient Cooling: Static cooling technology ensures consistent temperatures. -18°C when freezing and 0° to 7°C when cooling.
- Durable Construction: sturdy castor wheels at the bottom for easy mobility
- At least 1-year comprehensive warranty with 3 Years Compressor warranty.

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

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22/08/2025

Principal Investigator (MRI)
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