



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD
DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

No. App Chem-500424-17-18

Date: 17 January 2018

NOTICE INVITING TENDER

Subject: Supply & Installation of Rotary Evaporator with Diaphragm Vacuum Pump & Chiller.

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in App. Chem Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Rotary Evaporator with Diaphragm Vacuum Pump & Chiller. (Detailed Specification is given in Annexure – I)	01 No	At the Earliest

Tender Schedule:

Particulars	Date & Time
Bid Security or Earnest money deposit	Rs. 7,500.00 (Seven Thousand Five Hundred only)
Last date and time for submission of tenders	13.02.2018 at 1:00 P.M.
Date and time of opening of tenders	13.02.2018 at 4.00 P.M.

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)
2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
3. Tender should be submitted in sealed cover only super scribed with Enquiry No. and due date at the following address only:

The Deputy Registrar (P&S)
Indian Institute of Technology (Indian School of Mines),
Dhanbad – 826 004 Jharkhand

17/01/18



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Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.
- 4) **Bid Security or Earnest money deposit (EMD):** should be submitted in form of A/c payee demand draft drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at any other bank/branch located in Dhanbad.
- 5) **Educational discount**, if any, should be clearly mentioned.
- 6) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 7) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 8) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **24 months**.
- 9) **Each page in the bid document must be numbered properly** and duly signed & sealed by the bidder on every page of the bid.
- 10) The items/ materials shall be required to be delivered at App Chem Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 11) Unloading and installation shall be the complete responsibility of the supplier.
- 12) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 13) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 14) **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee/Demand Draft from any Nationalized Bank only and. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
- 15) **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier
- 16) **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
- 17) **Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 18) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 19) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). **Late or delayed tenders shall be summarily rejected.**
- 20) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 21) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.


Assistant Registrar



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Annexure -I

Specifications for Rotary evaporator with Diaphragm vacuum pump & Chiller

Specifications Rotary Evaporator

- # Rotary Evaporator with central operation unit to view and control RPM, water bath temperature, lowering and raising of evaporation flask, memory function.
- # Digital display of all the parameters on operation unit
- # Evaporation flask size 50 – 3000 ml
- # Evaporation flask automatically lifted from the water bath during power failure.
- # Collection flask size 100 -3000 ml
- # Rotation Speed 25 – 280 rpm
- # Angle of inclination 12 -45°
- # Water bath cordless with pour spout
- # Water bath volume: Minimum of 5000 ml
- # Water bath fill quantity: Minimum of 4000 ml
- # Water bath heating temperature: 20 -180°C
- # Water bath pull out length: Minimum of 70 mm
- # Protection against overheating of water bath with
 - Thermal protection switch
 - Electronic temperature limitation
 - Electronic switch off at insufficient water quantity.
- # Tube guides on the tower tidy and safe with tube no longer an obstruction.
- # Fully adjustable flask angle set via control knob.
- # Vertical condenser plastic coated with surface area: Minimum of 1230 cm²
- # Vertical condenser plastic coated with secondary appendage for better solvent recovery.

Specifications Diaphragm vacuum pump system

- # 100 % oil free chemically resistant diaphragm vacuum pump.
- # It should be double head chemically resistant diaphragm vacuum pump.
- # Material of construction of pump head is PTFE.
- # structured moulded diaphragm.
- # Power 120 W.
- # Flow rate 20 L/min.
- # Ultimate vacuum: Minimum of 8 mbar abs

Specifications Chiller

- | | |
|--------------------------------|----------------|
| # Cooling agent | R134a |
| # Bath volume | 5 ltrs |
| # Cooling capacity @ 20°C | 300 Watts |
| # Pump type | Force |
| # Pump pressure | 300 mbar |
| # Pump flow rate max in LPM | 12 |
| # Temp Range | -10 to 100 °C |
| # Bath Opening (W X D X H) cms | 24 x 45 x 62.5 |

Warranty: Minimum of Two years.

The instrument should be FOR, IIT (ISM), Dhanbad.

17/1/18