



NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

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BID No.: NITD/CHEMISTRY/WBDST/JC/2016-17/01

Date: 28.02.2017

SUB: : Invitation for quotations for supply and installation of “Aspirator based Rotary Evaporator with low temperature circulator” under DST Govt. of West Bengal sponsored research project to Department of Chemistry, NIT Durgapur

1. National Institute of Technology Durgapur, an Institute of National Importance, invites sealed tenders from reputed Original Equipment Manufacturers / Authorized Dealers / Bidders for quality Supply of Aspirator based Rotary Evaporator with low temperature circulator through DST, Govt. of West Bengal sponsored research project at Department of Chemistry, NIT Durgapur.

All interested tenderers are requested to send their sealed quotation as per technical specifications in Annexure – II and price bid as per Annexure-I (under two bid system).

Tender will be accepted by **21.03.2017** up to 11.00 A.M.

A cross Demand Draft of Rs. 200/- (Non-refundable) towards Tender Processing Fee and Rs.10,000/- (Refundable) towards EMD in favour of **Project JC DST WB** payable at Durgapur should be submitted in a separate sealed envelope along with your quotation.

The proposals must be sent in two separate sealed envelopes (Technical Bid and Price Bid) duly subscribed with Reference number and Tender Notice details as appended hereunder:-

The price bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids. The technical bids will be opened on 21.03.2017 at 11:30 A.M., at Department of Chemistry, NIT Durgapur, in presence of the Bidders/Vendors or their authorized representative who wish to be present. In case of any difficulty related to this tender enquiry can be made on jitamanyu.chakrabarty@ch.nitdgp.ac.in and/or +91 9434788164.

2. Bid Price (Annexure-I)

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
 - b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price **F.O.R. NIT Durgapur**.
 - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - d) The bid price should be quoted in **Indian Rupees (F.O.R. Dept. of Chemistry. NIT Durgapur)**.
3. Each bidder shall submit only one quotation for each item. Original Equipment Manufacturers / Authorized Dealers / Bidders of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply. The bidder must have supplied similar good to reputed organization.

4. The bid submitted by the bidder must comprise the following:

Part – I (Techno-commercial Bid)

- (a) Detailed technical specifications, conforming to the given specifications (vide Annexure – II), and literature /drawings /manuals of the goods/services are to supply.
- (b) Authorized dealership certificate from the original manufacturer

- (c) Credentials and list of organizations where the bidder supplied similar items
- (d) Warranty period (one year comprehensive on-site on workmanship and materials)
- (e) Valid sales-tax / VAT clearance certificate

Part – II (Price Bid)

- (f) Price bid as per Annexure-I

5. Validity of Quotation

Quotation shall remain valid for a period not less than 60 days after the deadline date specified for submission.

6. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e.

- (a) which are properly signed and
- (b) Conform to the terms and conditions, and specifications.
- (c) **The quotations will be evaluated considering the cost of all items and including tax thereon.**

7. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive, technologically acceptable and who has offered the lowest evaluated quotation price.

- 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 8. Delivery shall be made at **Department of Chemistry, NIT Durgapur.**
- 9. Payment shall be made immediately within 30 days after satisfactory installation, commissioning and successful demonstration of the good.
- 10. Comprehensive onsite warranty shall be applicable on workmanship and materials for a period of **12 months** from the date of installation.
- 11. The Institute is **exempted from payment of custom and excise duty** on items mentioned below:
 - a) Scientific and technical instruments, apparatus, equipment (including computers)
 - b) Accessories, spare parts and consumables thereof
 - c) Computer software, CD-ROM, recorded magnetic tapes, microfilms, and microchips.
- 12. The successful bidder must submit before the release of payment a valid bank guarantee on any nationalized bank or a bank draft (in favour of **Project JC DST WB**) of **10%** of the order value towards **Performance Security** during the warranty period otherwise 90% of the order value will be release initially and rest 10% will be paid after successful completion of warranty period.
- 13. **Liquidated Damage** will be applicable at the rate of **0.5%** per week. The purchaser has the right to cancel the purchase order when LD accumulates to 10 %.
- 14. A bank draft of **Rs 200** towards the Bid document price payable to “**Project JC DST WB**” at Durgapur will be enclosed with the bid by the bidder.
- 15. Quotations are to be submitted **in two separate sealed covers** marked **PART-I** (Techno-commercial bid) and **PART-II** (Price bid) containing relevant documents, superscripting “**Bid No. NITD/CHEMISTRY/WBDST/JC/2016-17/01**”. These two sealed covers are to be placed in a separately sealed larger cover.

Further, the sentence '**Not to be opened before 11.30 hours on 21.03.2017**' is also to be put on these envelopes.

16. Settlement of any dispute will be made under the jurisdiction of Durgapur Court.
17. You are requested to provide your offer latest by 11.00 hours on March 21, 2017.
18. The purchaser will open the bids at 11.30 hours on March 21, 2017 in the Chemistry Department, NIT Durgapur.
19. The bid document must be signed and sealed and enclosed with the bid as a token of acceptance of all terms and conditions in the bid document by the bidder.
20. The items must be delivered within **60 days** from the date of placement of purchase order at the respective department.
21. All other terms and conditions of GFR 2005 of the Government of India will be applicable.
22. **Place of Delivery: Dept. of Chemistry, NIT Durgapur.**
23. **Installation / commissioning / demonstration requirement: Installation, commissioning, complete demonstration and successful running at Dept. of Chemistry, NIT, Durgapur.**
24. **The technical bid and the price bid must be enclosed in separate envelopes properly sealed by the bidder, and submitted both the aforesaid envelopes inside a cover sealed envelope failure of which may lead to cancellation of the bid by the tender committee.**

We look forward to receiving your quotations and thank you for your interest in this

Dr. Jitamanu Chakrabarty
PI of DST, Govt. of West Bengal sponsored Project
Project No. 839(Sanc.)/ST/P/S&T/1-G-28/2016

The bid must be addressed to:

Dr. Jitamanu Chakrabarty
Department of Chemistry
NIT, Durgapur -713209, W.B.
Mobile: + 91-9434788164
Email: jitamanu.chakrabarty@ch.nitdgp.ac.in

Specification of Aspirator based Rotary Evaporator with low temperature circulator (All items should be from the same manufacturer)

<u>Rotary Vacuum Evaporator</u>	Speed range : Variable speed with maximum greater than 300 rpm Evaporation capacity : Max. 23 ml/min (Water evaporation) Rotation speed setting and display : Setting by Dial Digital Display Jack function : Manual jack function(Jack stroke 180 mm, stepless) Motor : DC Brush less motor Heater : 1.05 KW Vacuum seal : Vacuum seal (2sets) Teflon® +Teflon®. Double seal Genuine parts Sample Flask : 1 L Pear Style Ts 29/38 Receiving Flash : 1 L round style Condenser : Vertical double spiral glass coil Rotary Joint : Ts 29 Stand Base : T-shape with lift jack with lock, 130 mm max. lift Dimension : 543W x 352D x 823H, Weight less than 13 Kg.
<u>Digital Water Bath</u>	Temp. control range : Ambient temp +5° to +90° C Accuracy : ± 1°C Bath features : Inner Teflon coating and outer heat resistant cover Bath dimension : Ø220 x 120 H, 4.3 L Temp controller : Microprocessor based PID Control Heating element : 1.05 KW, Safety features : Overheating protector, bath cover, fuse with calibration facility Mains : 100-240V AC, 50 Hz
<u>Powerful Aspirator</u>	Should have Vacuum Gauge/Regulator Displacement method : Pressured water jets Displacement : 16 L/min. x 2 (at water temperature 6 ⁰ C) Ultimate vacuum : Max. Vacuum 7 mm of mercury Safety function : Check valve, thermal protection Aspirator element : Metal aspirator x 2 Water bath capacity : 10 L or more Bath material : Polypropylene Power : 220 VAC, 50 Hz.
<u>Low Temperature Circulator</u>	(Compact table top water circulator taking up not more than 12” x 18” of space The direction of circulation nozzle adjustable for easy installation To cool down to –20°C, suitable for the trapping low boiling point solvents Cooling capacity around 385 Kcal/h, at 10°C bath temperature Provision for easy change of condenser air filter Circulation method : Closed loop Temp. control range : -20°C to Ambient Temp. control : Compressor ON-OFF control Temp. control and display : Digital Cooling capacity : 385 Kcal/h at 10°C liquid, 300 Kcal/h at 0°C liquid 220 Kcal/h at -10°C liquid Refrigeration unit : Air cooled, Output 350 w Bath capacity : 4 L Circulating pump : Max. flow 10 L/min., Max. head 4.2 m Cooling coil : Copper nickel galvanizing External circulation nozzle : OD 11 mm Hose size Bath material : SUS 304 Power : 220 VAC, 50 Hz. Safety features : Breaker for leakage and excess current, Overload relay maintaining circuit, circulating pump protection, Self-check function for temp. controller