



# NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

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**BID REFERENCE:** NITD/Regis/OR/FC/Chemical/BD/2016-17/02

**Date:** 09/09/2016

To

\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

**SUB** : Invitation for quotations for supply and installation of Instruments / Equipment *for research & project work (PG / UG level)* as specified in **annexure-II**.

1. You are invited to submit your most competitive quotation for the listed items of instruments/equipment as per **Annexure-II**. For each item, please quote separately in separate envelope superscripted with ITEM Name. Price bid form as per Annexure-I must be filled with complete numerical values. Please note that each item will include sub-items. **No separate quotations are required for sub-items.**
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 must be quoted in **Indian Rupees**.
3. **The bid submitted by the bidder must comprise the following :**
  - (a) Detailed technical specifications, conforming to the given specifications (vide **Annexure-II**), and literature /drawings /manuals of the goods/services to be supplied
  - (b) Authorized dealership certificate from the original manufacturer
  - (c) Credentials and list of organizations where the bidder supplied similar items
  - (d) Warranty period (1 year comprehensive on-site)
  - (e) Valid sales-tax / VAT clearance certificate
  - (f) Price bid as per **Annexure-I**
  - (g) Picture of Experimental set-up for the study of inverse fluidization as per **Annexure-III**
4. **Validity of Quotation**

Quotation shall remain valid for a period not less than **60 days** after the deadline date specified for submission.
5. **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.

## 6. 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 Chemical Engineering at NIT, Durgapur.**
9. **100%** payment shall be made by the purchase by account payee cheque within a period of thirty (30) days after the installation and satisfactory working of the goods against the submission of a valid **bank guarantee of 10%** of the order value towards **Performance security** to be retained during the warranty period.
10. Comprehensive onsite warranty shall be applicable to the supplied goods for a period of **24 months** from the date of installation.
11. The Institute is **exempted from payment of custom and excise duty** on items mentioned below:
- Scientific and technical instruments, apparatus, equipment (including computers)
  - Accessories, spare parts and consumables thereof
  - Computer software, CD-ROM, recorded magnetic tapes, microfilms, and microchips.
12. **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 %.
13. Settlement of any dispute will be made under the jurisdiction of Durgapur Court.
14. You are requested to provide your offer latest by **11.00 hours on September 23, 2016**
15. The purchaser will open the bids at **11.30 hours on September 23, 2016** in the Seminar Room of Chemical Engg Department
16. 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.
17. **The items must be delivered within 45 days from the date of placement of purchase order at the respective department.**
18. **Comprehensive onsite warranty for 24 months from the date of satisfactory installation shall be applicable for offered goods.**
19. All other terms and conditions of GFR 2005 of the Government of India will be application.
20. **Place of Delivery: Dept. of Chemical Engineering, NIT Durgapur.**
21. **Installation / commissioning / demonstration requirement: Installation, commissioning, complete demonstration and successful running at Dept. of Chemical Engineering, NIT, Durgapur**
22. **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.**
23. **The technical bid & commercial bid document (price bid) must be submitted TWO SEPARATE SEALED ENVELOPE without which the quotation will be cancelled.**
24. **Good Quality / Branded quality materials used for the metal components. Details specification of the materials of construction of the equipment to be mention in the quotation.**

I look forward to receiving your quotations and thank you for your interest in this project.

The bid must be addressed to:

### **Dr. Bimal Das**

Assistant Professor

Department of Chemical Engineering

NIT, Durgapur -713209, W.B.

E-mail: bimal\_30@yahoo.com; Website: www.nitdgp.ac.in

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### Specifications for Equipment under Research Initiation Grant

| Sl No. | Name of the Equipment  | Specification of the Equipment   |
|--------|--|--|
| 01.    | <b>Experimental set-up for the study of inverse fluidization</b> | <p><b>1. Main Reservoir:-</b><br/>           1.1 Capacity 250lit approx.<br/>           1.2 MOC PVC<br/>           1.3 Starring By heavy duty 1HP motorized stirrer with Digital timer<br/>           1.4 Water level Indicator Provided<br/>           1.5 feeding externally and through bypass line.</p> <p><b>2. Main Experimental Column:-</b><br/>           2.1. Quantity 2 No.<br/>           2.2. MOC Thick resign quoted PVC sheet transparent tube<br/>           2.3. Capacity 5 litres (approx.)<br/>           2.4. Pressure rating Upto 4 kg/cm<sup>2</sup>(g)<br/>           2.5. Temperature rating Upto 125 °C<br/>           2.6. Digital Manometer Provided to get in 5 different levels.<br/>           2.7. Feed valve Provided in top<br/>           2.8. Velocity meter Provided in bottom<br/>           2.9. Safety out let on top.</p> <p><b>3. Collecting or Settling washing &amp; Filtering Tank :-</b><br/>           3.1. Quantity 2 Nos.<br/>           3.2. MOC PVC or SS304<br/>           3.3. Capacity 5 litres each (approx.)<br/>           3.4. Settling arrangement Bottom outlet cock provided for layer separation<br/>           3.5. Outlet one channel to main reservoir<br/>           Other channel through activated charcoal for further filtering</p> <p><b>4. Piping :-</b><br/>           4.1. Various set of interconnecting piping of SS 304, with valves, Rotameter &amp; fittings as required</p> <p><b>5. Pumps</b><br/>           5.1. Two set of magnetic noncontact pump with flowmeters &amp; fittings as required.</p> <p><b>6. Mounting :-</b><br/>           6.1. MS structure for free standing floor mounting arrangement</p> |

Picture of Experimental set-up for the study of inverse fluidization

