



**NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA – 769 008, ODISHA**

**Advertised Tender Enquiry**

**Department: Mechanical Engineering**

**Tender Notice No: NITR/PW/ME/2019/97**

**Date: 25/02/2019**

**To**

**Important Dates**

**Through  
CPP Portal  
(E-procurement)**

<b>Event</b>	<b>Date</b>	<b>Time</b>
<b>Pre-bid Conference</b>	<b>-NA-</b>	<b>-NA-</b>
<b>Last Date of submission of bid</b>	<b>18/03/2019</b>	<b>11:00 AM</b>
<b>Opening date of technical bid</b>	<b>19/03/2019</b>	<b>11:00 AM</b>

Dear Sir,

We intend to purchase the commodities specified below in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

For any technical query contact to

Head, Department of Mechanical Engineering  
Attention: Dr. Manoj Kumar Moharana  
National Institute of Technology  
Rourkela – 769 008, Odisha  
Phone: 0661 – 2462533, 7008111684  
Email: [moharanam@nitrrkl.ac.in](mailto:moharanam@nitrrkl.ac.in)

Yours sincerely,

\_\_\_\_\_  
Name: Dr. Manoj Kumar Moharana  
(PI, Project Code SR/18/ME/003)

Encl:

- 1) Schedule of requirement, specifications, dates etc.
- 2) Bid document containing detail terms and conditions.

1. **Schedule of requirements**

Sl. No.	Description of Goods/Service	Quantity
1	<b>Vacuum pump (Turbo-molecular pump with backing pump along with accessories)</b>	1

2. **Specifications and allied Technical Details**

For detailed specification see **Annexure 1**

3. **Format of Quotation** (tick appropriate box)

It is a two part bid; with separate technical and price bids.

4. The Bid should be submitted through <https://eprocure.gov.in/eprocure/app>

5. Quotations should be valid for a period of **90 days** from the closing date of the bid.

6. **Some important dates:**

<b>i.</b>	<b>Pre-bid Conference:</b>	<b>Date: NA</b>	<b>Time: NA</b>
<b>ii.</b>	<b>Last date for submission of bid</b>	<b>Date: 18/03/2019</b>	<b>Time: 11:00 AM</b>
<b>iii.</b>	<b>Opening date of technical bid</b>	<b>Date: 19/03/2019</b>	<b>Time: 11:00 AM</b>

7. **Warranty:** Warranty must be **1 year** onsite which should be clearly mentioned along with the quotation

8. **GST** should be charge according to applicable rates (if applicable).

9. **Performance Security: Not Applicable.**

10. **EMD (Earnest Money deposit)** in shape of DD (Demand Draft) for **INR 15,000/- (Rupees Fifteen Thousand Only)** and **Tender Cost (Non- refundable)** in the form of DD for **INR 500/- (Rupees Five Hundred Only)** in favour of **Director, NIT Rourkela Payable at Rourkela** from any Scheduled Commercial Bank except Co-operative and Gramin bank. DD for the EMD (Earnest Money deposit) should remain valid for a period of 45 days beyond the bid validity period from the date of opening of bids. EMD (Earnest Money deposit) of unsuccessful bidders should be return to them at the earliest and latest on or before the 30th days after the award of the contract. EMD (Earnest Money deposit) and Tender Cost should reach physically through speed post/ register post/courier, containing in an envelope & superscripted with subject, tender reference number addressing to **Registrar, NIT Rourkela - 769008, Odisha; Attention: HOD(ME) on or before 19/03/2019 at 11:00 AM.**

11. Please go through the enclosed “bid document” carefully for other bidding instructions.

12. Evaluation Criteria:

(A) Copy of purchase order for the last 5 years along with make and model number.

(B) Web link of the company/supplier/authorized dealer.

(C) Detailed technical specification of the product to be supplied.

13. Please send you quotation through <https://eprocure.gov.in/eprocure/app>

14. For technical details, you may contact

Dr. Manoj Kumar Moharana  
Department of Mechanical Engineering  
National Institute of Technology, Rourkela – 769 008  
Phone: 0661–2462533, 7008111684  
E-mail: [moharanam@nitrrkl.ac.in](mailto:moharanam@nitrrkl.ac.in) , [mkmoharana@gmail.com](mailto:mkmoharana@gmail.com)

**NB: Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)**



# NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

## BID DOCUMENT

### 1. Instructions to the bidders

- 1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela – 769 008, Orissa, from the intending bidders for supply of the goods/stores/ equipment for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their offer/rates in BOQ in clear terms without ambiguity.
- 1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.4 The last date for receipt of the bid is marked in the tender document.
- 1.5 The Bid should be uploaded in <https://eprocure.gov.in/eprocure/app>. Please follow the guideline of the site.
- 1.6 If a prospective bidder requires any clarification in regard to the bidding documents, he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.
- 1.7 Bids received after the deadline of receipt indicated in Para1.4 above shall not be taken in to consideration.
- 1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered nonresponsive.
- 1.9 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., technical bid and financial bid.
- 1.10 The bidder has to sign in full at all pages of the scanned part of the bidding document. No over-writing in those pages is acceptable.

### 2. Conditions of the bid

- 2.1 The rates quoted should preferably be net, inclusive of all taxes and duties, packing, forwarding, freight, Insurance and all other incidental charges. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or Ad Valorem rate must be specified. Packing, forwarding, freight etc., when quotes separately are reimbursable at actuals. If external agencies are employed, their receipts must be enclosed with the invoice.
- 2.2 Duties and Taxes are to be quoted separately. Ad Valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

**It may be noted that the Institute is availing custom duty exemption in terms of notification no 51/96 – Customs dt. 23.07.1996, Notification no. - 47/2017- Integrated Tax (Rate) dt. 14.11.2017 and Notification No- 45/2017 – Central tax (Rate) dt. 14.11.2017 [vid Registration No.: TU/V/RG-CDE (227)/2016, dated: 13.11.2018]**

- 2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **105 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.
- 2.4 The bid should remain valid for a period of **90 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- 2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 2.6 The goods offered should strictly conform to the specification and technical details mentioned in **Annexure I**.
- 2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.
- 2.8 Period of guarantee/warranty, where applicable, should be specified in the bid.
- 2.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.
- 2.10 The successful bidder may be required to execute a contract, where applicable.
- 2.11 The bidder has to furnish up to date Income Tax Clearance Certificate along with the bid.
- 2.12 Payment (100 percent) will be made by Account Payee Cheque/Bank Draft, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.
- 2.13 In case of Advance payment, the payment will be made on either in Foreign Demand Draft or Wire Transfer only. The proforma invoice copy need to be sent for advance payment
- 2.14 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, Rourkela shall be final
- 2.15 The bid document/resultant contract will be interpreted under Indian Laws.

## Technical specification for Turbo molecular vacuum pump with backing pump

### Specifications of Turbo molecular vacuum pump

1.	Type	Turbo pumping station
2.	Ultimate pressure	$10^{-6}$ mbar or better
3.	Pumping speed (l/s)	50 l/s or better
4.	Flange connection	ISO 63/ISO 40/NW40/KF40
5.	Rotational speed	70,000 rpm or better
6.	Noise pressure level	< 50 dB (A)
7.	Startup time	3 min or less
8.	Pump down time (1 litre volume)	90 seconds or better
9.	Operating temperature	5 °C to 35 °C
10.	Power requirement	240 V/ 50 Hz

### Specifications of backing pump

1.	Type	Dry scroll/Diaphragm pump/Rotary vane pump
2.	Cooling method	Air
3.	Flange connection	As per the turbo molecular pump
4.	Ultimate pressure	$5 \times 10^{-1}$ mbar or better
5.	Leak rate	$\leq 5 \times 10^{-4}$ Pa m <sup>3</sup> /s or better
6.	Pumping speed	1 m <sup>3</sup> /h or better
7.	Rotational speed	1500 rpm or better
8.	Operating temperature	5 °C to 35 °C
9.	Power requirement	240 V/ 50 Hz

### Accessories:

- Active Pirani/Cold Cathode Transmitter/Gauge be included/attached with the vacuum pump (Accuracy:  $\pm 30$  % reading or better)
- Necessary angle valve, flanges, adapters, centering and clamping rings, cables and hoses required for flange connection reduction up to 2 - 4 mm diameter.

### Features

- Plug and play system
- Display system
- After sale service

### Note:

\* It is mandatory to provide list of customers in India (preferably educational institutes of repute) to whom the quoted product has been supplied/sold.