



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

**Advertised Tender Enquiry**

**Department: Mechanical Engineering**

**Tender notification no: - NITR/PW/ME/2020/215**

**Date: 22/12/2020**

**To**

Bidding through  
e-Procurement module of  
CPP Portal.

<https://eprocure.gov.in/eprocure/app>

**Important Dates**

<b>Event</b>	<b>Date</b>	<b>Time</b>
Pre-bid Conference	<b>NA</b>	<b>NA</b>
Last Date of submission of bid	<b>12/01/2021</b>	<b>03:00 PM</b>
Date of opening of techno-commercial bid	<b>13/01/2021</b>	<b>03:00 PM</b>

Dear Sir,

We intend to purchase the commodities specified below and invite quotations 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 query, you may contact:

**Attention:**  
**Prof. Suman Ghosh**  
Department of Mechanical Engineering  
National Institute of Technology Rourkela  
Rourkela-769 008, Odisha  
Phone: 0661-2462531  
Mobile: +91 9437809878  
E-mail: [ghoshsuman2000@gmail.com](mailto:ghoshsuman2000@gmail.com)  
[ghoshs@nitrkl.ac.in](mailto:ghoshs@nitrkl.ac.in)

Yours sincerely,

\_\_\_\_\_  
Name: Prof. Suman Ghosh  
Department of Mechanical Engineering  
NIT Rourkela

**Encl:**

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

**1. Schedule of requirements**

Item No	DESCRIPTION	Quantity
1	Procurement and Installation of a complete unit of Reciprocating Pump Test Rig (Detailed specification as per Annexure – II)	1 Unit

**2. Specifications and allied Technical Details**

As per the specification mentioned in Annexure II

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

It is a **two-part** bid with separate techno-commercial 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 date of opening of techno-commercial bid.

**6. Some important dates:**

i.	<b>Pre-bid Conference</b>	<b>Date: NA</b>	<b>Time: NA</b>
ii.	<b>Last date for submission of Bid</b>	<b>Date: 12/01/2021</b>	<b>Time: 03:00 PM</b>
iii.	<b>Date of opening of Techno-commercial Bid</b>	<b>Date: 13/01/2021</b>	<b>Time: 03:00 PM</b>

7. **Warranty** :Comprehensive warranty for 1 year (spares and consumables must be provided).

8. **Technical Bid Evaluation Criteria:** As per the detailed equipment technical specifications given in **Annexure–II**. If required, the bidder may be asked to provide clarification regarding the technical aspects.

**Other Qualification criteria:**

- i. Complete technical specification of the instrument and its necessary parts and accessory items required for running the instrument
- ii. Scanned copy of the technical brochure and website reference of the same must be included in the bid.
- iii. There must be a local maintenance center with the availability of the spares in India. The registered address of the local maintenance center should be provided.
- iv. A declaration from the Principal stating that the spares will be made available for the equipment for at least 5 years from the date of installation.
- v. The average turnover of the bidder in the last 3 Financial Years should be at least Rs. 2.0 crores. Relevant documents to be provided.
- vi. The bidder should have proven track record in Govt. Sector at least for 7 years. POs in favor of the bidder to be provided as proof.
- vii. A duly signed detailed User List (at least 5) with the concerned person’s valid contact details, in India where the instruments are still in the operational condition must be provided for each of the instrument.
- viii. Copies of at least 5 POs/installation certificates of similar or higher specifications than the quoted instrument from Govt. organizations/ labs/

institutes should be provided. The POs/installation certificate should not be older than 5 years.

- ix. A copy of the Authorization Certificate issued by the Principal in favour of the Indian agent along with a certified copy of the Agency Agreement between the foreign Principal and Indian agent. Both these certificates must be up-to-date.
- x. In case of imported items, a letter in the official letterhead of the principal declaring the Indian agent as their authorized agency to bid. The letter must contain the official tender enquiry number as depicted in the e-portal, must be included with the technical bid. (This must not be clubbed with Authorization Certificate)
- xi. A duly signed separate compliance sheet of the specification (at every point) mentioned in the technical part along with the deviation (if any). This compliance sheet will not be considered as the technical specification of the instrument.
- xii. Profit and loss statements and balance sheets of the financial year 2018-2019 (as on year ended, i.e., 31.03.2020) must be provided along with the technical bid.
- xiii. Income tax return (ITR) of the assessment year 2018-2019 must be provided along with the technical bid.
- xiv. Dealership Certificate and Proprietary Nature Certificate (If applicable) must be provided along with the technical bid.
- xv. Price should include installation.

- 9. Financial Bid Evaluation Criteria:** The comparison will be made for the award of contract on overall price basis of the Instrument and Comprehensive warranty for 1 year (spares and consumables must be provided).
- 10.** (a) All prices to be quoted including delivery and installation at NIT Rourkela in INR. The price should include the customs clearance, transportation, and other charges.  
(b) **GST:** GST should be charged at 5% against DSIR certificate.  
(c) **Customs clearance:** NIT will provide necessary documents for concessional customs clearance charges.
- 11. Tender Cost:** Tender cost (Non- refundable) in the shape of Demand Draft for **INR 500/- (Rupees Five Hundred only)** in favor of "Director, NIT Rourkela" Payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. 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; on or before 13/01/2021 at 03:00 PM.**
- 12. Bid Security:** It is mandatory to submit the "**Bid Security declaration**" form as mentioned in **Annexure- I**, failing which the bid will be summarily rejected.
- 13. Performance Security:** **3% of Contract Value** should be deposited to the Institute within 15 days from the date of issue of Purchase Order, in the shape of Demand Draft (DD)/Bank Guarantee in favor of "**Director, NIT Rourkela**" and payable at Rourkela from any Scheduled Commercial Bank except Cooperative and Gramin bank. And Performance security should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the suppliers including warranty obligation.

- 14.** Please send your quotations through <https://eprocure.gov.in/eprocure/app>
- 15.** For technical details, you may contact

**Prof. Suman Ghosh**

Department of Mechanical Engineering,

National Institute of Technology,

Rourkela - 769 008

Phone: 0661-2462531, Mobile: +91 9437809878

E-mail: [ghoshsuman2000@gmail.com](mailto:ghoshsuman2000@gmail.com)

[ghoshs@nitrkl.ac.in](mailto:ghoshs@nitrkl.ac.in)

**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, Odisha, 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 enquiry.
- 1.5 The Bid should be uploaded in <https://eprocure.gov.in/eprocure/app> Please follow the guidelines 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 para 1.4 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 non-responsive.
- 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.
- 1.11 If any bidder does not fulfil technical specification, his/her eligibility will be cancelled even if his/her price got L1 status.
- 1.12 Bidders registered with any of the following agencies/ bodies as per Public procurement policy for Micro & Small Enterprises (MSE) order 2012 are exempted categories from payment of EMD provided that the registration Certificate issued by any one of these below mentioned agencies must be valid as on close date of tender. Micro small or medium enterprises who have applied for registration or renewal of registration with any of these agencies/bodies but have not obtained the valid Certificate as on close date of tender are not eligible for exemption.
  - i) Khadi and Village Industries Commission (KVIC)
  - ii) National Small Industries Corporation (NSIC)
  - iii) Any other body specified by Ministry of MSME/GOI

### **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. Duties and Taxes are to be quoted separately. Ad Valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

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 – Integrated tax (Rate) dt. 14/11/2017 & Notification No. - 45/2017- Central tax (Rate) dt. 14.11.2017, Notification No. - 45/2017- Union Territory Tax (Rate) dt. 14/11/2017 [Vide DSIR, Ministry of Science and Technology, Government of India, 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 **90 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 of techno-commercial bid. 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-II**.

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 Purchase order / Work order shall be placed on the bidding firm(s). In case of deviation to this, if any, the bidding firm should produce any such sufficient documents/credentials i.e, Agreements, MOUs, Arrangements etc. with the third party/ OEM to satisfy the buyer. A consent letter from the third party/ OEM to that effect must be enclosed along with the bidding documents.

2.13 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.

2.14 State Bank of India is the sole Banking partner for NIT Rourkela for operation of LC (Letter of Credit).

2.15 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.

2.16 The bid document/resultant contract will be interpreted under Indian Laws.

**BID SECURITY DECLARATION**

Tender Ref No.:\_\_\_\_\_Dated.:\_\_\_\_\_

Tender Id.:\_\_\_\_\_

To

**The Registrar,  
National Institute of Technology, Rourkela  
Sundargarh, Odisha-769008**

The undersigned, declare that I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration. I/We accept that I/We may be disqualified/suspended from bidding for any tender /contract in your Institute (NIT Rourkela) for a period of Five Years from the date of notification of present tender, if I am /We are in a breach of any obligation under the bid conditions as under, if I/We

- a) Withdraw/modify/amend, impair or derogate the tender/bids, during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity
  - (i) fail or refuse to execute the contract, if required, or
  - (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

**Signed:** (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

**Name:** (insert complete name of person signing the Bid Securing Declaration) duly authorized to sign the bid for and on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing) Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

**Specifications of the complete unit of Reciprocating Pump Test Rig**

**Technical Specification**

The objective is to effectively understand the construction and operation, performance characteristics of a reciprocating pump. The unit should contain an electric motor as the drive unit. Optionally, it should have the facility for varying the motor's speed to get various performance parameters for better understanding. The unit should contain a facility to measure the power consumed. Self-explanatory operating manuals must be provided with each system. Detailed theory, as well as practical exercises, should be included in the manual.

A compact, comprehensive set of Reciprocating Pump test rig is required for the

1. Study of the construction and operation of a reciprocating pump
2. Determination of total head for a reciprocating pump
3. Determination of power input and efficiency of a reciprocating pump
4. Study of the performance characteristics of a reciprocating pump.

The setup must have the following components

1. Reciprocating pump
2. Pressure gauges
3. Flow measurement unit
4. An electric motor as the drive unit
5. Sump tank
6. Input power measuring arrangement
7. Additional unit for PC operation of the test rig

**Minimum specification:**

**PUMP:** Double acting reciprocating pump of size approximately 25 × 20 mm with Air Vessel to discharge about 20 LPM at 20 meters total head.

**MOTOR:** 1 HP, 1400Rpm, Single-phase, 200/220 volts, AC Supply.

**SPEED VARIATION:** Stepped pulley reduction "V" belt drive to run the pump at three different speeds.

**ELECTRICAL PANEL:** Switch and Energy meter for the measurement of input power input.

**SUMP TANK:** M.S Unit with FRP lining to store sufficient water for independent circulation through the unit.

**MEASURING TANK:** M.S Unit with FRP lining unit of the suitable size should be provided with standard fittings for measuring water discharge.

**STOPWATCH:** Digital stopwatch should be provided.

**OTHERS:** A piping system consisting of pipes, pressure relief valve, gate valve, and fitting with pressure gauge must be provided.

**Installation and Training: A 2-day installation post-training should be provided by the bidder.**

\* \* \* \* \*