

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

Advertised Tender Enquiry

Department: Civil Engineering

Tender Notice No: NITR/PW/CE/2020/223 Date: 31/12/2020

IMPORTANT DATES

To

Bidding
Through
e- Procurement module of
CPP Portal

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

Event	Date	Time
Pre-bid meeting	NA	NA
Last date of submission of bid	21/01/2021	11:00 AM
Date of opening of techno-commercial bid	22/01/2021	11:00 AM

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 clarification:

Attention:

Dr. Rabi Narayan Behera

Assistant Professor Department of Civil Engineering, National Institute of Technology, Rourkela – 769 008

Phone: 0661-246-2348/78731 00435 E-mail: beherarabin@nitrkl.ac.in Yours sincerely,

Dr. Rabi Narayan BeheraAssistant Professor
Civil Engineering
NIT Rourkela

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.	Cyclic Triaxial System with all accessories	One

- 2. Specifications and allied Technical Details: As per the specification attached in the Annexure-II
- **3.** Format of Quotation (tick appropriate box)
 - It is a two-part 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 technocommercial bid.
- **6.** Some important dates:

i.	Pre-bid Conference	Date:	NA	NA
ii.	Last date for submission of bid	Date:	21/01/2021	11:00 AM
iii.	Date of opening of techno- commercial bid	Date:	22/01/2021	11:00 AM

- **7. Warranty:** One year standard warranty.
- **8. GST:** GST should be charge according to applicable rates.
- 9. Tender Fee: 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 22/01/2021 at 11:00 AM
- **10. 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.
- 11. Performance Security: 3% of Contract Value should be deposited to the Institute within 15 days from the date of issue of Purchase Order, in shape of Demand Draft (DD)/Bank Guarantee in favor of "Director, NIT Rourkela" and payable at Rourkela. 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.
- **12.** Please go through the enclosed "bid document" carefully for other bidding instructions.
- **13.** Please send your quotations through: https://eprocure.gov.in/eprocure/app

14. Techno-commercial Bid Evaluation Criteria:

- I. At least 5 Purchase Orders from IIT/ NIT/IISER/reputed Indian institute/Govt. R&D organizations of the same Quoted Model must be provided where the above equipment with accessories (Annexure-II) have been supplied in last five years. Scan copies of the minimum Ten purchase orders of the above equipment and accessories (Annexure-II) must be enclosed along with the technical bid.
- II. The Original Equipment Manufacturer (OEM) should have own service center in India. The bidders must enclose details of their infrastructure with reference to locations and technical manpower, availability of inventory spares etc. A valid GST registration certificate of OEM should be submitted along with bid.
- III. Scanned copies of the technical brochure of the above equipment and accessories (**Annexure-II**) given in the quotation must be included in the technical bid.
- IV. Web references must be provided along with the technical bid.

- V. Point wise technical compliance along with any deviation of the mentioned specifications (**Annexure-II**) must be indicated along with technical documents.
- VI. Make and model no. should be mentioned in the technical bid.

Financial Bid Evaluation Criteria:

The award of contract will be made based on the Lowest price (L1) including all taxes quoted for item no. 1.01 in BOQ.

15. For technical details, you may contact

Dr. Rabi Narayan Behera

Assistant Professor Department of Civil Engineering, National Institute of Technology, Rourkela – 769 008

Phone: 0661-246-2348/78731 00435 E-mail: beherarabin@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— 769008, 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 tender document.
- 1.5 The bids 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., techno-commercial 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 any 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 eliqible 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 packing, forwarding, freight, Insurance and all other incidental charges including taxes. 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 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 **60 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 as mentioned in schedule of requirements in the tender documents.
- 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 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.
- 2.10 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.
- 2.11 The successful bidder may be required to execute a contract, where applicable.
- 2.12 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.
- 2.13 State Bank of India is the sole Banking partner for NIT Rourkela for operation of LC (Letter of Credit).
- 2.14 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.
- 2.15 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, and Rourkela shall be final.
- 2.16 The bid document/resultant contract will be interpreted under Indian Laws.

BID SECURITY DECLARATION

Tender Ref.	No		Date
Tender ID.			
То			
The Regist National I Sundargar	nstitute	of Technology, Ro na-769008	ourkela
supported bidding for	oy a Bid any tendo on of pre	Securing Declaratior er /contract in your	inderstand that, according to your conditions, bids must be n. I/We accept that I/We may be disqualified/ suspended from Institute (NIT Rourkela) for a period of five years from the date /We are in a breach of any obligation under the bid conditions
a)		w/modify/amend, in specified in the forr	npair or derogate the tender/bids, during the period of bid m of Bid; or
b)	having validity	been notified of the	acceptance of our Bid by the purchaser during the period of bid
	(i)	fail or refuse to ex	ecute the contract, if required, or
	(ii)	fail or refuse to fur	rnish the Performance Security, in accordance with the
		Instructions to B	idders.
Bidder, upo	n the ear	_	eration shall cease to be valid if I am/we are not the successfu of your notification of the name of the successful Bidder; or (ii) idity of my/our Bid.
	_	-	se name and capacity are shown) in the capacity of (insert Securing Declaration)
•	•	-	signing the Bid Securing Declaration) Duly authorized to sign lete name of Bidder)
Dated on appropriate		day of	(insert date of signing) Corporate Seal (where

(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)

DETAILED TECHNICAL SPECIFICATION

Specifications for Cyclic Triaxial System with all accessories:

Sealed tender bids are invited from reputed/authorized vendors/companies for Cyclic Triaxial System with all accessories with following tender specifications.

1. Load Frame

Load carrying capacity: 50 kN; Triaxial Cell accommodate: Up to 100 mm diameter & 200 mm height; Horizontal clearance: 350 mm; Vertical clearance: 900 mm; Platen Diameter: 150 mm or more; Ram Speed: 0.00001-9.9999 mm/min.

2. Hydraulic Actuator

Type: Double Acting; Capacity: ±1000 kg; Stroke length: ±25 mm; Frequency range: 0.01Hz-10Hz; Displacement transducer: 50 mm; Operating Pressure: 100 kg/cm²; Servo Valve 2 stage: 20 LPM; Accumulators: Gas filled capacity 0.16 liter

3. Hydraulic Power Supply

Flow of the pump: 15 LPM; Operating Pressure: 100 kg/cm²; Type of Pump: Vane; Capacity of the oil tank: 100 liter; Power rating of the motor: 7.5 HP; Heat Exchanger capacity: 4500 kcal/hr.

4. Triaxial Cell

Tests Possible: Static & Dynamic (Compression/Extension or both); Confining Pressure: Upto 10 kg/cm²; Specimen Size: Up to 100 mm diameter & 200 mm height; Submersible Load cell: 500 kg; Load cell capacity: 10 kN

5. Digitally Controlled Pressure System

Confining Pressure: Up to 10 kg/cm²; Back Pressure: Up to 10 kg/cm²; Volume change: 200 cc; De-airing chamber: 15 liter; Compressor: 10kg/cm²; Vacuum Pump: Creates vacuum of 70 cm mercury

6. Transducers

Submersible Load Cell: ±500 kg (0.1 kg); Displacement Transducer: ±25 mm (0.01 mm) & 20 mm (0.001 mm); Confining Pressure Transducer: 20 kg/cm²; (0.01 kg/cm²); Pore Pressure Transducer: 20 kg/cm² (0.01 kg/cm²); Volume Change Transducer: 200 cc (0.1 cc)

7. Sample Preparation Accessories

For 38, 50, 75 and 100 mm diameter samples following sample preparation accessories shall be supplied:

Top Cap and bottom pedestal: 1 No. each; Rubber Membrane: 40 Nos. (10 Nos. for each size); Suction sleeve stretcher: 1 No. each; Two part split mould with Vacuum arrangement: 1 No. each; Rubber O-rings: 10 Nos. each; Porous disc: 2 Nos. each

8. PC based Control System and Application Software

Computer: Intel Core i5, 500GB HDD, 4GB DDR RAM, 4USB ports, Keyboard, Mouse, 19" LCD monitor, UPS 500VA along with Deskjet Color printer

Data Acquisition Card; Control software; Analysis Software for Dynamic Test (As per ASTM 3999 & ASTM 5311); Analysis Software for Static Triaxial Test

9. Bender Element

It comprises of (a) Triaxial Cell with bender element for sample size 50 mm diameter, (b) Dual channel digital oscilloscope, (c) Function Generator and (d) Amplifier for the wave form

Other Requirements	
Demonstration of instrument performance.	The supplier should demonstrate all possible tests that can be done by the equipment at the time of installation with satisfactory results.
Manuals	1 set of detailed operation, servicing and other manuals should be provided in both soft form as well as Hard copy. Language should be English only.
Installation	The satisfactory installation to the full specifications of the machine with all accessories at NIT Rourkela campus. Any additional equipment/accessory for the installation of the system should be quoted invariably. NIT Rourkela will provide only space and electrical connection for running the equipment. If some civil work is required, then it should be informed earlier.
Training	Supplier should provide a comprehensive and free training to NIT Rourkela personnel for at least 3 working days.
Warranty	01 Year Standard Warranty (Front line service to be done at customer place & if any cards/modules are to be replaced can be taken to service center & back to bench service charges to be borne by Bidder). The Original End Manufacturer (OEM) should have Calibration and other maintenance support facility located in India.

Guarantee / Warranty and after sales technical support

The tender must be quoted with one year on-site comprehensive Warranty/Guarantee commencing from the date of complete and satisfactory installation of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. The bidder also must agree and issue a certificate stating that technical query will be responded within 7 working days and the support will be provided within 21 working days from the date of reporting of the technical failure for down time free operation of the instrument.

Operation and service manual in English (electronic and hard copy) should be provided with all the equipment and components.

In the technical details, specify clearly about the kind of service/maintenance required for the system. Also, mention that whether the service has to be carried out by a company engineer or it can be carried by trained service personnel within India.

The complete training of all measurement options should be free for NIT Rourkela user staff/students members, onsite.

Enclose pre-installation guide for the details on electrical power, space and other for all components and essential accessories.

A list of institutes (with details) in India where the similar equipment & model (with all options in this tender) has been sold or is under operation should be provided. Prospective vendor should clearly mention the type of measurement options (along with the main system) supplied to these institutes.

The manufacturer has to stand guarantee for the relocation of the system from the present campus of NIT Rourkela to any other place if any in future.