



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008 (ODISHA)**

An Institute of National Importance under Ministry of Education, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW/CE/2021/247

Dated: 24/02/2021

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of an Ultrasonic 5 MHz Ranging System to measure depth of water inside a laboratory flume at a point of a stream **with all Accessories** at NIT Rourkela.

Last date of Submission of Bid : **16/03/2021 by 11:00 AM**

Opening date of Techno-commercial Bid : **17/03/2021 at 11:00 AM**

For Details: http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Prof. Kishanjit Kumar Khatua,
Department of Civil Engineering
Ph.: 0661-246-2307, Mob. No. 9861068249
Email ID: kkkhatua@nitrkl.ac.in

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

**Sd/-
REGISTRAR**



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ODISHA**

OPEN TENDER NOTICE NO.: NITR/PW/CE/2021/247

Dated: 24/02/2021

Procurement of an Ultrasonic 5 MHz Ranging System with all accessories

SL.NO	Description of Goods/Service	Quantity
1.	Procurement of an Ultrasonic 5 MHz Ranging System to measure depth of water inside a laboratory flume at a point of a stream with all Accessories	1 unit

1. Quantity required : **As mentioned above (All information regarding technical specification provided in Annexure-II in Tender Documents)**
2. Delivery : Within **90 days** from the date of purchase order
3. Last Date of submission of Bid : **16/03/2021 by 11:00 AM**
4. Date of opening of Techno-commercial bid : **17/03/2021 at 11:00 AM**
5. The firm should not have been black listed at any time.
6. The submission of following bids by the tenderer should be through <https://eprocure.gov.in/eprocure/app> Please follow the guidelines as per the portal.

**Procurement of an Ultrasonic 5 MHz Ranging System with all accessories
(Open Tender Notice No.: NITR/PW/CE/2021/247 Dated: 24/02/2021)
Due on 16/03/2021 by 11:00 AM**

7. **Liquidated damage clause** will be charged for any delay in supply of goods.
8. The validity of the tender shall be **90 days** from the date of opening of the techno-commercial bids.
9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx
10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2462021

DETAILED TECHNICAL SPECIFICATION

Specifications for Ultrasonic 5 MHz Ranging System with Accessories:

This ultrasonic ranging system should be composed of at least 5 transducers, and an electronics package. The acoustic operating frequency of this system should be minimum of 5 MHz. The electronics package should communicate with a PC via a USB communications port. The electronics package should be capable of running up to minimum of 5 transducers.

This acoustic instrumentation shall be used for both laboratory and field applications. The electronics package communicates with a PC via a USB communications port. The electronics Ultrasonic Ranging System should be composed of an electronics package and the transducers to record the continuous depth of flow of water in open channel flow.

The electronics package should contain all of the transmitter, receiver, signal processing, and communication electronics. The electronics package streams the range data back to a logging PC which runs supplied software to display and log the range data real-time. The package is capable of running up to 20 transducers. The transducers should operate at minimum of 5 MHz; the closest range of depth of flow measurement of this should be between 2 cm to 100 cm.

The detailed specification is

Specification:	
Power supply	AC power ranging from 110 to 240 Volts, at 50 to 60 Hz.
Transducers	5 nos (minimum)
Threshold voltage	threshold value between 600 and 2600 mV
Maximum range	greater than the threshold voltage, upto 100cm
Temperature	20°C
Number of pings to process per return	Up to 20 individual range readings (or pings) can be used in calculating the range measurement that is recorded.
Analog inputs	up to 4 external analog channels, inputs 0-5 volts
Software for Data logger	Ultrasonic Ranging System

Others

- A complete design along with clear indication/markings of specification mentioned in the technical bidding document of the instrument must be provided with the bidding document.
- Warranty: Minimum 1-year standard onsite warranty from the date of installation.
- Offers from Authorized agents of Foreign Manufacturers should accompany Principal's Authorization letter mentioning our Tender Reference Number.
- Manufacturer should have proper website and offered product should be available in the website.
- Technical brochure and website reference of the same must be included in the bid. The specification mentioned in the bid document must tally with the technical brochure.
- Technical specification of the instrument with "Yes/No" format against each specification will not be considered a technical bidding document. A separate compliance sheet of technical specification with specific value of the equipment along with the deviation must be included.
- Detailed User List with the concerned person's valid contact details, in India or abroad where instrument is still in operational condition must be provided.
- The ordered goods are required to be installed within 90 days of receipt of goods at this Institute. Installation should be carried out only by expert engineers of Supplier / Manufacturer. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institute's Faculties / Engineers / Technicians. Installation and training must be free of cost.
- During the course of evaluation, NIT Rourkela, may, at its discretion ask the bidder for clarification of its bid. The request for clarification and the response shall be in writing / email and no change in prices or substance of the bid shall be sought, offered or permitted.
- Prior installation conditions / site preparation / electrical connection required must be clearly mentioned in the quotation along with technical bidding documents
- If any component/ additional instrumental unit/consumables which is required for smooth running of instrument is made in India that must be quoted in INR. Anything which is of Indian origin must be quoted in INR.
- In case optional items are specified in the tendered specifications, the Purchaser reserves the right to buy or not to buy the optional items. In case the option is exercised to buy the optional items after Bid opening, then the cost of optional items would be included to ascertain the Lowest Evaluated Responsive Bid. In case, the option is exercised not to buy the optional items, then the cost of the optional items would not be included in ascertaining the Lowest Evaluated Responsive Bid.
- The quotations are liable to be rejected if any of the above conditions are not complied with or there is any violation of GFR17 rules and regulations. Conditional Bids shall not be accepted.
- The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc., such offers shall be treated as inclusive of all these expenses.
- In all regards, the GFR17 rules and regulation will be strictly followed.
- The delivery up to NIT Rourkela is solely bidder's responsibility.