



**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/MN/2021/230

Dated: 28/01/2021

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Real time portable diesel particulate matter (DPM) monitor with accessories** at NIT Rourkela.

Last date of Submission of Bid : **17/02/2021 by 11:00 AM**

Opening date of techno-commercial Bid : **18/02/2021 at 11:00 AM**

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

Contact: Dr. FALGUNI SARKAR
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Email: sarkarf@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/MN/2021/230

Dated: 28/01/2021

Procurement of Real time portable diesel particulate matter (DPM) monitor with accessories

SL.NO	Description of Goods/Service	Quantity
1.	Real time portable diesel particulate matter (DPM) monitor with accessories	1 unit

1. Quantity required : **As mentioned above (All information regarding technical specification provided in Annexure II)**
2. Delivery : Within **90 days** from the date of purchase order
3. Last Date of submission of Bid : **17/02/2021 by 11:00 AM**
4. Date of opening of techno-commercial bid : **18/02/2021 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.

Real time portable diesel particulate matter (DPM) monitor with accessories

(Open Tender Notice No.: NITR/PW/MN/2021/230

Dated: 28/01/2021)

Due on 17/02/2021 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 Real time portable diesel particulate matter (DPM) monitor with accessories:

Sealed tender bids are invited from reputed/authorized vendors/companies for “**Real time portable diesel particulate matter (DPM) monitor with accessories**” with following tender specifications.

Technical Specifications for “Real time portable diesel particulate matter (DPM) monitor with accessories”:

- ❖ The instrument should be capable of measuring concentrations of elemental carbon (EC) in near real-time, which replicates NIOSH 5040 or a procedure equivalent to NIOSH 5040.
- ❖ Concentration range: Lower limit: 10 microgram EC/m³, upper limit: > 500 microgram EC /m³
- ❖ Particulate size range: less than 1 micrometer to 10 micrometer
- ❖ Precision: Less than +/- 10 microgram/m³
- ❖ Sample flow rate: 1.0 to 4 lit/ minute
- ❖ Filter Cassette life: At least 12 hours
- ❖ Data storage: Not less than 20000 data storage
- ❖ Recording time: 12 hrs at a time
- ❖ Display: Alpha-numeric, LCD
- ❖ Operating temperature: 0 to 50 degree centigrade
- ❖ Humidity level: At least 95% non- condensing
- ❖ Pro- Software: windows TM driven
- ❖ Power: Lithium –ion rechargeable battery
- ❖ Charging time: Not more than 12 hrs
- ❖ Real time alarms for high DPM levels with alarm output 90db at 1m
- ❖ Provision for downloading data vis USB
- ❖ Intrinsically safe for use in underground mines

Demonstration of instrument performance.	The supplier should demonstrate the working of the equipment by detecting DPM on real time basis, at the time of installation of the equipment. The acceptance would be subject to meeting the required criterion.
Manuals	1 set of detailed operation, servicing and Programming manual should be provided in both soft form as well as Hard copy. Language should be English only.
Training	Supplier should provide a comprehensive and free training to NIT Rourkela engineers for at least 3 working days on operation and preventive maintenance of the DPM monitor.
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 centre & 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.