



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

OPEN TENDER NOTICE NO.: NITR/PW/ME/2021/249

Dated: 03/03/2021

Procurement of High Precision Turbo Balancing Machine at NIT Rourkela

SL.NO	Description of Goods/Service	Quantity
1.	High Precision Turbo Balancing Machine	1 (One)

1. Quantity required : **As mentioned above (Technical specification mentioned in Annexure II)**
2. Delivery : Within **90 days** from the date of purchase order
3. Last Date of submission of Bid : **24/03/2021 by 11:00 AM**
4. Date of opening of techno-commercial bid : **25/03/2021 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.

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Due on 24/03/2021 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

Technical Specification

Specification

1. Machine Specification

- Max Symetrical Load: 30 kg / 0.1 kg
- Residual umbalance: 2 gmm / 100 kg rotor
- Precision: ± 0.01 mm/s
- Accelerometer Sensitivity: 100 mV/g
- Maximum Rotor Diameter: 533 mm
- Maximum weight per base: 15 kg
- Maximum SBS displacement: 6 mm
- Maximum Journal diameter: 63.5 mm
- Min / Max distance between supports: 12 mm / 500 mm
- Transmission: Flat Belt
- Motor Features 0.12 W (1/6 hp) / 90VDC
- Speed Driver Included / Output 0-90/180VDC
- Weight: Maximum 25 kg (55 lb)

2. Kit should Includes:

- (1) Horizontal Balancing Machine
- (1) DigivibeMX M10 system for Dynamic Balancing
- (1) DigivibeMX M10 software (3 activations)
- (1) GX400 wired 4-channel interface
- (2) 100 mV/g 24V single-axis accelerometers and cables
- (1) Laser Optical Sensor and cable
- (1) Magnetic Stand
- (1) Soft-sided Instrument Carry Case
- Set of 2 Axial Supports
- Set of 2 Negative Load Supports
- Operation and maintenance manual etc.

3. Action during commissioning of machine at NIT Rourkela

- Installation, commissioning & proving of the machine to its desired capacity will be done by the OEM's engineer at NIT Rourkela
- Commissioning work include acceptance test/component trial and they will be carried out by the OEM's expert.
- The commissioning will be treated as complete when we issue the certificate of acceptance. Installation, commissioning & proving of the machine to its desired capacity and complete satisfaction.
- Electrical requirements also to be clearly specified
- The OEM shall have to provide onsite training to 3 persons exclusively for minimum one days in the field of programming, operation, maintenance etc.