





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

**OPEN TENDER NOTICE NO.: NITR/PW/CH/2021/253**

**Dated: 12/03/2021)**

**Procurement and installation of Emitter Low Diff Mono (FEG Tip) for FEI 300 kv High Resolution Transmission Electron Microscope at NIT Rourkela**

<b>Item No</b>	<b>DESCRIPTION</b>	<b>Quantity</b>
1	<b>Emitter Low Diff Mono (FEG Tip) for FEI 300 kv High Resolution Transmission Electron Microscope</b>	<b>1 unit</b>

1. Quantity required : **As mentioned above (All information regarding technical specification provided in the Annexure-II in Tender Document)**
2. Delivery : Within **90 days** from the date of purchase order
3. Last Date of submission of Bid : **31/03/2021 by 11:00 AM**
4. Date of opening of Techno-commercial : **01/04/2021 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 and installation of Emitter Low Diff Mono (FEG Tip) for FEI 300 kv High Resolution Transmission Electron Microscope  
(Open Tender Notice No.: NITR/PW/CH/2021/253 Dated: 12/03/2021)  
Due on 31/03/2021 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 techno-commercial bid.
9. Detailed advertisement including all tender documents is also available in our website at [http://nitrkl.ac.in/OldWebsite/Jobs\\_Tenders/9Equipment/Default.aspx](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 of Emitter low Diff Mono (TEM FEG Tip)**

**Emitter low Diff Mono (TEM FEG Tip) for 300kv High Resolution Transmission Electron Microscope, Model Tecnai G2 F30 S-TWIN Serial No-D949:** This module is used in FEI Transmission Electron Microscope. In microscope, a field emission gun is used to produce an electron beam that is smaller in diameter, more coherent and with up to three orders of magnitude greater current density or brightness than can be achieved with conventional thermionic emitters such as tungsten or lanthanum hexaboride tipped filaments. The result in transmission electron microscopy is significantly improved signal to noise ratio and spatial resolution, and greatly increase emitter life and reliability compared with thermionic devices.

The emitter module is fixed inside the gun assembly and supply will be connected to it electrons emitted from this module will be accelerated towards the specimen by applying the acceleration voltage to the complete assembly.

**Warranty:**

3 months from the date of receipt at site and if the product lifetime is less than 50% of expected lifetime, it will be replace free of cost. Please enclose warranty certificate with invoice.

**Other clause:**

EMITTER LOW DIFF MONO is quoted on exchange price. The installation of the part to be done within 15 days from the date of receipt at site and the defective part will be handover to your engineer with a proper gate pass to take out the defective part.

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