

**TENDER NOTICE**

**SUPPLY OF Metallurgical Microscope FOR Metallurgical and Materials Engineering (MME) Department, NIT DURGAPUR**

*Quotations are invited from all prospective bidders including for the supply and delivery of Metallurgical Microscope for MME Department, NIT Durgapur, as per the terms and condition mentioned below. All bidders are required to address their bid documents to the Head-MME Department, National Institute of Technology, Durgapur, (W.B) and drop the same in sealed condition at MME Department on and before 28.05.2018 from the publication of the notice. Only those firms with valid certificate of enlistment (Trade Licence), GST, PAN No., Sales Tax Registration etc. will be considered.*

Sl. no.	Name of the Equipment	Specification of the Equipment	Qty.
01	Trinocular vertical metallurgical microscopes	<p>Upright Metallurgical Microscope with plan optics and incident light illumination..</p> <p>Objective: Plan M – 10X, 20X, 40X, 100X (Oil)</p> <p>Eyepiece: Widefield WF – 10X Magnification range: 100X – 1000X</p> <p><b>Illumination:</b> Built in Koehler's incident illuminator with halogen lamp for longer life, field and aperture diaphragm with yellow, green and blue filters</p> <p><b>Observation Tube:</b> High transmission Trinocular head equipped with inclined observation tubes and adjustable inter-pupillary distance</p> <p><b>Mechanical Stage:</b> Build in Co- axial mechanical square stage,</p> <p><b>Other Specification: Focusing:</b> Coarse and fine co-axial focusing on Ball track movement for greater reliability with reasonable coarse motion range. <b>Magnification Changer:</b> Quadrupule ball bearing revolving changer for perfect alignment <b>Camera Adaptor:</b> C-Mount adaptor</p> <p><b>Metallography Image Analysis Software</b> Enhanced Image Processing (For Integrating with the Microscope) <b>Phase Analysis:</b> As per ASTM E562 Quantifies volume % like Graphite, Pearlite, Ferrite, Martensite, Retained Austenite, carbide Porosity etc. should be measured. <b>Grain size :</b> As per ASTM E112 Standard methods like Planimetric, Heyn Intercept, Hillard/Abrams circle intercept and manual grain analysis ALA grain size (ASTM E930) analysis, Inclusion rating measurement as per ASTM E45 Standard, Dendrite Arm Spacing for Aluminium, Decarburization as per ASTM E1077, Particle size analysis, Coating Thickness should be carried out. <b>Nodules:</b> Nodularity Percentage, nodule count and graphite size classes according to valid standards (ASTM A 247) <b>Graphite Flakes:</b> Maximum flake length measurement and Form Types (ASTM A 247) <b>Measurements:</b> like length, area, radius, distance <b>Report Generation:</b> Exports to MS Office Excel <b>Camera:</b> 3.1 MP CMOS with sensor</p> <p>A PC system with Laser Jet printer should be attached with the machine. PC system will be used to preserve the measured data. <b>Following Specification:</b> 4 GB RAM, OS- Windows 7/8/10 32 bit, 64 bit, USB 2.0 port, Screen resolution: 1280 x 1024, Colour depth: "True Colour 32-Bit" Graphics card: 2 GB (ATI recommended), MS Office, Monitor 19 " LCD</p>	One (01)

*The bidders may visit the site before submitting the tender, any claim not mentioned in offer will not be entertained.*

## **General Terms & Conditions:**

### **1. A. The bid is to be submitted in two parts:**

- i) **Technical Bid:** *This includes signed and stamped copy of the Tender Notice and completely filled and signed Form-A (Annexure-1 to this Tender Notice). EMD of 3% of the total rate quoted is to be deposited in the form of Demand Draft of any nationalized bank, having branch at Durgapur, in favour of Director, NIT Durgapur, payable at par. Same will be released to the unsuccessful vendors on request, after completion of tendering process and to the successful vendor after submission of Security Deposit of 10% of total bill value for the 3 months in the form of bank guarantee or the same will be deducted from the bill/invoice. Self attested copy of Valid GST certificate, Sales Tax Registration certificate, Certificate of Enlistment (Trade License) for relevant items & any other special license that may be required for the supply of such items, must be provided by the bidders, failing which the bid may be rejected without further reference.*
- ii) **Price Bid:** Introductory Letter and completely filled and signed Form-B (Annexure-2 to this Tender Notice).

### **B. Procedure for sealing and marking of bids: The Tender / Bid Cover shall contain the following:**

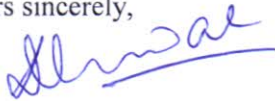
- a) *FIRST envelope should contain the Technical Bid along with enclosures desired in the Tender document. This envelope should be sealed and super scribes as "TECHNICAL BID" Cover.*
- b) *SECOND envelope should contain the Price Bid. This envelope should be sealed and super scribed as "PRICE BID" Cover. It should also state Tender no., date and name & address of the bidder.*
- c) *All the above mentioned TWO SEPARATE ENVELOPES are to be sealed and kept in one single larger size outer envelope (THIRD envelope) which should also be sealed and super scribed with Tender no., date, name, address & contact information of bidder.*

**2. Please fill up the attached sheets Form-A & B (Annexure-1 & 2 to this Tender Notice) otherwise tender will be rejected. Do not change or modify the format.**

3. For the price calculations show the taxes (in percentage (%) as well as amount) separately. The rates should be quoted clearly without any overwriting/cutting. Extra charges (if any) should not be included in MRP & price quoted. Extra charges (if any) are to be specifically mentioned separately including the amounts to be charged in additional sheets which is to be duly signed and stamped by the supplier, failing which no claim will be entertained at a later stage.
4. All pages of the bids should be duly signed and stamped with date.
5. All price quoted must remain open for acceptance for 180 days from the date of opening of the price bid.
6. **Prices are for delivery.** Free delivery to N.I.T., Durgapur-9, as per conditions mentioned in Purchase Order. Delivery shall be made at **Department of Metallurgical and Materials Engineering at NIT, Durgapur.**  
The items must be delivered and installed within **60 days** from the date of placement of purchase order, unless otherwise specified in the Purchase Order.
8. Goods are required to be consigned to the Director, NIT Durgapur unless otherwise instructed.
9. The actual quantity of requirement of items may vary from what is indicated in this Tender Notice which is only an estimate. The decision of the Tender Committee regarding the variant and quantity to be purchased is final.
10. **Purchasers' Right:** Notwithstanding anything specified in this tender document, the Institute unconditionally and without assigning any reasons, reserve the rights (a) To accept or reject the lowest tender or any other tender or all the tenders, at any time prior to the award of the purchase/work order, without incurring any liability to the affected tenderer or tenderers (b) To accept any tender in full or in part (c) To reject the tender offer not conforming to the tender terms (d) To give purchase preference to Public Sector Undertaking wherever applicable as per Govt. Policy/ Guidelines.
11. All supplies are to be guaranteed against defects and must be replaced/repair at suppliers' cost. Minimum warranty of 01 (one) years should be provided. Removal and replacement of rejected goods will be supplier's responsibility and at supplier's cost. Our normal terms of payment are 100% within 30 working days on submission of bills and relevant documents, if the bills and documents are in order.

12. All invoices raised should bear printed serial number, date and should mention the Purchase Order no. and date. Prices, extra charges (if any) and taxes (rate, % & type of tax) are to be shown separately and the Challan should bear Security entry stamp of NIT Main Gate. The Challan should clearly state the make/manufacturer, model, specifications, quantity etc. of the items supplied.
13. **Genuine Pricing:** The bidder has to ensure that the quoted price for NITD is not more than the Price Offered to any other customer in India to whom this particular item has been sold, particularly to Indian Institute of Technology, National Institute of Technology, State/ Central or Deemed Universities, Defense Organizations, Research Establishments or any other Government Institutions. For this purpose the vendor has furnish a price reasonability certificate in the page 02 of Form -A of the Technical Bid. Name and contact details of the premier educational institutes/ government organizations where the quoted item/ equipment has been supplied/ installed during the last three years should be attached with the Proforma for Technical Bid.
14. **Black Listing:** The bidder should not have been blacklisted or debarred from participating in tenders in any State/ Central Government agencies or autonomous bodies or Universities / Educational Institutions or PSUs.
15. NIT Durgapur is entitled to excise and customs duty exemptions, if applicable please mention.
16. The bidders may represent themselves personally or through their authorized representative, if any, at the time of opening of bids.
17. In case the time is insufficient to open the Price Bids after opening the Technical Bids, the Price Bids will be opened on a subsequent date which will be intimated at the time of opening the Technical Bids.
18. Changes, if any, to this Tender Notice will be intimated as corrigendum/addendum to the same on the Institute website ([www.nitdgp.ac.in](http://www.nitdgp.ac.in)), so bidders are requested to check the Institute website regularly.
19. If the date of tender opening/last date of tender submission happens to be a holiday or the Institute remains closed due to any reason, the date for the same will be shifted to the next working day at the same time and venue.
20. Bidders who have submitted their bids in the first call may submit a revised price bid if they so desire.

Yours sincerely,



Dr. Durbadal Mandal  
(Indentor)



Dr. S. Pramanik  
(Head, MME Dept)

Copy to: 1. Registrar Secretariat, 2. Notice Board(Academic Building), 3. Institute website for your necessary information

