



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्त्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

No. AGL/PRJ/317/18-19

Date: 18.12.2018

NOTICE INVITING TENDER

Subject: NIT No. AGL/PRJ/317/2018-19 for Supply & Installation of Microscope fitted with heating freezing stage. (Quantity- 01 No.).

Sirs,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply and Installation of Microscope fitted with heating freezing stage. (Quantity – 01 No.) in our Applied Geology Department. *Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:*

Sl. No	Items	Particulars
1.	Tender cost (Online Payment)	Rs. 2,360.00 (Two Thousand Three Hundred Sixty only) (Please refer Point No. 3 (a) of Terms & Conditions)
2.	Earnest money deposit	Rs. 40,000.00 (Forty Thousand only)
4.	Date and time for submission of bids	09.01.2019 at 3:00 P.M.
5.	Date and time of opening of bids	09.01.2019 at 4.00 P.M.

Tender document containing following document is available on websites of (<https://eprocure.gov.in> & www.iitism.ac.in), which may kindly be referred.

1. Technical specifications as per Annexure-I
2. General terms & condition as per Annexure-II
3. Compliance Statement as per Annexure –III
4. Financial Bid as per Annexure- IV

Encl: As above

Assistant Registrar



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Annexure-I

Polarizing Trinocular Microscope with heating and freezing stage with digital camera and imaging system:

Part A

Microscope:

1. Basic stand for polarization microscopy with reflected and transmitted light, height adjustable focus knobs and focus stop.
2. Trinocular polarising tube, FOV 22 mm or better with 30° viewing angle, rotatable with IPD:47-75 or more
3. Revolving Nosepiece 5-fold with built-in centrable feature for all 5 slots.
4. 2 nos. of Eyepieces 10X (F.O.V. 22 mm or better) for Polarization, one with cross hair and micrometer scale, Diopter adjustment on both. Eyepiece guard and eyepiece cap.
5. Coaxial coarse/Fine Focus knob.
6. Reflected Light Pol axis designed for qualitative and quantitative polarization microscopy with reflected light
7. Dedicated Circular graduated stage rotatable 360° horizontally, rotation clampable, graduated 360° in 1° increment, minimum increment 0.1 mm on vernier.
8. Rotatable analyser with minimum reading angle of 0.1°.
9. 3-step focus drive for coarse, medium and fine focusing, focus torque adjustment and adjustable focus stop.
10. 2 nos. of exchangeable LED Lamp housing with constant color temperature at 4500°K to be used for Reflected as well as transmitted light. (Alternatively with 2 nos. of 12V and 100W lamp house for reflected and transmitted light along with day light filter and ND filters with different attenuations.)
11. Binocular dedicated Polarizing Phototube with tube lens $\infty/1x$, with 30° viewing angle, interpupillary adjustment 55-75mm, with constant focus and automatic adjustment of right eyepiece/ graticule. Beam splitter with a facility 50%/50% light distribution between visual and phototube.
12. Pol rotating stage, with ball bearing, rotation clampable, \varnothing 180 (+/-2) mm, with 2 verniers 0.1°, with stage bracket and condenser holder
13. Objective with Long Working distance of 8 mm or more for 20X and 50X
14. Polarizer for Reflected light switchable at 0° (east-west), 45° (diagonal), 90° (north-south) positions.
15. Rotatable analyzer with minimum scale with graduation with range from 0 to 180° or more.
16. Pol universal condenser with switchable condenser heads, with 6 position condenser disk. Methods: Bright field, dark field, phase contrast, qualitative polarization interference contrast.
17. Low-strain Achromatic condenser head 0.50 with focal intercept 15 mm, for using heating stages
18. Transmitted Light Polarizer, rotatable 360° with markings for 0° and 90° positions.



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15 Dust cover

16 Digital colour camera with CCD / CMOS sensor (1/2" or large)

- High Dynamic range >55dB / 600:1 for better sensitivity
- Pixel size 3.2µm x 3.2µm or large
- Image size 3.1 Mega pixels or more
- Fast live image up to 30 fps @ image size of 1024 x 768 or better
- USB-3 connectivity for PC with necessary card and cable
- C-mount adapter 0.5x

17. Standard Imaging software provides an environment integrated with the means of acquiring, storing, calibrating, annotating and interactively measuring microscope images with a Windows style user interface. A scale bar or micron marker can be superimposed on the image with spatial calibration calculated automatically for microscope and camera combinations.

Part B

Geological Heating and Freezing Stage for fluid inclusion studies

- Geological Heating and Freezing Stage with X-Y sample manipulation compatible for both reflected and transmitted light.
- Temperature range: -196°C to +600°C (-196°C can be achieved with the use of Liquid Nitrogen System), Heating rate 0.01°C/min to 150°C/min.
- Software for temperature and camera control and measurement purposes
- Liquid Nitrogen Cooling systems for automatic cooling of samples below ambient temperature down to -196°C.
- Water circulator Pump for cooling of stage body and windows when working at temperatures above 300°C.
- Standard 40cm syphon and return tubing set with 2 Litre Dewar.
- Water Tube Kit for ECP.
- Stage clamp to fix the heating freezing stage.
- High performance colour image capture system including Digital colour camera (CCD / CMOS sensor) of 3.1 Megapixel or more resolution, fast live image up to 30 fps @ image size of 1024 x 768 or better, C-mount adapter 0.5x, USB-3 connectivity for PC with necessary card and cable.

Part C

- 3 Years warranty on the heating freezing stage and microscope.
- Desktop Computer: Branded Intel Core i5, OS: Windows 7 Professional or better, 64 bits. , RAM: 4 GB Hard Drive: 500 GB or higher, Display and Graphics: 19" LED Monitor, 32 bits graphics card. Motherboard PCI slots – 2 no., PCI express Slot 1x & 2x and USB port [USB3] – 4-6 nos.

Optional Items

1. Imaging Analysis Software:

- For measuring size, shape, position, orientation, intensity parameters for multiple Individual features or particles Provides range of grey image processing methods to enhance image prior to analysis Perform threshold detection on colour and monochrome images Provides range of binary image processing methods to select features for analysis.
- To allow user to modify, add, and delete selected features by manual image editing, guard frame to be set to prevent errors in objects touching edge of image & showing a list of selected parameters for all features measured



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c. To use measurement filtering to classify features for measurement Creates histograms to display the distribution of sizes and shapes Calculates a range of statistics for each parameter and for histograms.

d. Exports data to Excel to create user defined reports Analyses multiple images and accumulates data for them Uses Sequence Wizard to interactively establish setting of analysis.

2. 100X long working distance objective

10X POL objective.



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Annexure-II

GENERAL TERMS & CONDITIONS

NIT No. AGL/PRJ/317/2018-19

Sealed tenders under **Two-bid system** are invited from manufacturers/ their authorized dealers/ agents for supply and installation in IIT (ISM) Dhanbad of items specified in *Annexure-I*.

1. Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
2. *a) In a tender, either the Indian agent on behalf of the principle/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*
b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.
3. **Techno-commercial Bid:** should contain the following documents/information:
 - a. **Tender Cost:** Venders must pay the tender cost through the link <http://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=272342>
Cash receipt should be attached along with the bid submitted.
 - b. **Bid Security/Earnest Money Deposit (EMD):** Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT(ISM) and payable at Dhanbad (Jharkhand).
 - c. Tenders without payment of tender cost and EMD will not be considered, unless the tenderer is exempt from such payment under Central Govt. Rules/ Regulations and General Financial Rules (GFR) as amended from time to time and claims such exemption along with relevant and valid supporting documents.
 - d. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.
 - e. A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements given in *Annexure-I*. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).
 - f. IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
4. **Further the following documents have to be furnished by the tenderers:**
 - a) Self attested copies of credentials in support of capability to undertake the supply/work.
 - b) Technical literature/catalogue with the detail specification of the material
 - c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
 - d) Income tax PAN, Sales tax regn. Nos., GST, & Bank A/c no., name of bank & branch.
5. **Price should be quoted on FOR, IIT(ISM) Dhanbad basis.** The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
6. **Educational discount, if any, should be clearly mentioned.**
7. IIT(ISM) is entitled for Custom Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate. IIT(ISM) will provide only custom duty exemption certificate for availing concessional custom duty.



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8. IIT (ISM) does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.
9. **Warranty:** Minimum 03 year warranty from the date of installation and commissioning at the site.
10. **Validity:** Offer must be valid for a period of **240 days** from the date of opening of tender
11. **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee from any Nationalized Bank and Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
12. **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
13. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
14. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
15. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
16. Conditional offer will not be accepted.
17. **Payment:** will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. The invoice should be duly certified by the Head of Dept to which supply is made or any other IIT (ISM) official authorized for this purpose.
18. Your full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer. **Institute does not make any advance payment.**
19. **Country of origin and port of shipment should be stated** in your offer clearly.
20. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the
21. FOR price of the offer" should be clearly indicated in your offer.
22. Earliest/ expected delivery period should be clearly indicated.
23. Packing should be suitable for 'Air freight'.
24. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
25. **Last date** for receipt of tenders and date & time for opening of the same is given in page- 01. The tenders will be opened in the presence of representatives of tenderers present. ***In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender.***
26. Tender should be submitted in a sealed cover/envelope and must be superscribed as under:
 - i) "Tender No. **AGL/PRJ/317/18-19** Date : **20 December 2018** (Supply & Installation of (Due Date**2019** at 4.00 P.M.).



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- ii) All tender shall be received up to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances.
- iii) All tender must be sent by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) working days only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.
27. The Institute at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before placing the order. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
28. The Institute reserves the right to accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid.
29. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline.

ABOVE TERMS AND CONDITIONS OF THE NIT ARE ACCEPTED

1	Name and address of the tenderer	
2	Telecom nos. of the tenderer i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no.	



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Annexure-III

Compliance Statement

Sl. No	Technical requirement as per NIT	What is offered by the tenderer	Status of Compliance Complied/Not Complied
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Annexure - IV

Format for Financial Bid

NIT No.: AGL/PRJ/317/18-19

Date: 18.12.2018

Bidders Ref: No.

Date:

GSTIN:

Subject: Supply & Installation of Microscope fitted with heating freezing stage. (Quantity – 01 No.).

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			GST (if any)	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		Grand Total	

Note:

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include all local taxes, VAT, service tax, GST, HSN Code, SAC Code, livies, transportation cost and insurance costs etc. if any
- 3) Price should be in FOR IIT(ISM), Dhanbad basis only.