

**भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद**

धनबाद, झारखण्ड, भारत, पिन-826004

(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व 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 Education. Govt. of India)****PROJECT PURCHASE SECTION** Phone: (0326)2235203 || Email: projectpurchase@iitism.ac.in || Website: www.iitism.ac.in**No. FM-PRJ-013-25-26****Date: 10th July, 2025****Request for Quotation****To,****Subject: Supply & Installation of Optical Microscope for 3D Surface Analysis.****Sirs**

Indian Institute of technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

Sl. No.	Detailed Specifications	Quantity
1	Supply & Installation of Optical Microscope for 3D Surface Analysis (Specification in Annexure –I)	01 No.

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please attached authorization certificate for OEM.
- 3) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of **12 months**
- 4) Price Basis: FOR IIT (ISM) Dhanbad
- 5) The items/ materials shall be required to be delivered at **Department of Fuel Minerals and Metallurgical Engineering Department of IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 6) ***Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly.***
- 7) The rates should be quoted for each item separately as per price schedule attached as annexure I
- 8) The items/ materials shall be required to be delivered at **Fuel Minerals and Metallurgical Engineering Department of IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 9) Your tender must be **valid for minimum 120 days** from the date of opening of tender.
- 10) Full details of items/materials offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 11) Tender may please be submitted ***in sealed cover only superscribed with Enquiry No. FM-PRJ-013-25-26 latest by 31.07.2025.***
- 12) **EMD:** EMD of an amount of **Rs. 80,000/-** in form of Demand Draft in favor of Registrar, IIT (ISM) Dhanbad payable at Dhanbad. EMD can also be submitted in the form of Term Deposit Receipt/ Fixed Deposit Receipt/Bank Guarantee drawn in favor of Registrar, IIT(ISM)Dhanbad
- 13) **Performance Security:** To ensure due performance of the item, you are required to submit a performance security. The performance security should be furnished within 21 days of the award of supply order. Performance security should be for an amount of five percent (5%) of the value of the supply order. Performance security may be furnished in the form of a Demand Draft/ Fixed Deposit Receipt / Bank Guarantee from a commercial bank in favour of Registrar IIT (ISM) Dhanbad, payable at Dhanbad. Performance security should remain valid for a period of 14 Months from the date of final acceptance/Installation. The performance security will be refunded without any interest, provided that the performance is satisfactory.
- 14) The offer must be submitted in the office of **Deputy Registrar (Project Purchase Section), Office of Dean R & D, IIT (ISM), Dhanbad– 826004 (Jharkhand, India)** only. Please send your offer by Registered Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). At any circumstances by hand delivery is not acceptable. Late or delayed tenders shall be summarily rejected. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.



GSTIN : 20AAAAI0686D1ZA

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- 15) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 16) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.
- 17) **Payment:** Payment shall normally be made within 4 weeks subject to satisfactory supply, submission of tax invoice and delivery challan in triplicate (as per Purchase Order Terms) of the ordered materials/items. *Advance payment is not admissible.*
- 18) You are requested to fill the enclosed **Annexures**.
- 19) **Please attach purchase order copies of the same equipment which you have supplied to any other Govt., public sector and autonomous institutions.**
- 20) **a) In a tender, either the Indian agent on behalf of the principle/ OEM and 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.

**For and on behalf of
IIT(ISM), Dhanabd**

Deputy Registrar
(Project Purchase Section)
O/o Dean (R&D)

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Sl	Performance and Features
1	Automation of routine functions with motorized Aperture and motorized Field diaphragm setting synchronised with motorized or encoded magnification changer / Nosepiece
2	Auto compensation for focus drift and off-set of centre point during change in magnifications by Motorized Stage and Motorized Focus synchronised with motorized or encoded magnification changer / Nosepiece.
3	Facility to restoring microscope and camera setting from saved image and associated meta data
4	Trinocular Observation tube with 50% and 50% beam splitting mechanism for simultaneous observation through binocular eyepieces and using camera through C-mount on Monitor
5	Eyepiece magnification: 10x pair with minimum of 22 Field Number with built-in dioptre correction
6	Motorized or encoded magnification changer / Nosepiece with minimum 5 Positions
7	Objective Magnifications: a) Plan Semi Apochromatic 10x/0.30 b) Plan Semi Apochromatic 20x/0.5 c) Plan Semi Apochromatic 50x/0.55 d) Plan Semi Apochromatic 100x/0.75 Note: 100x & 50x High power objective lens should be with Long Working distance type > 4.5 mm
8	Eyepiece: 10x with FN 22 (Pair)
9	Microscope frame with Touch Screen Controller for observation and control of microscope settings like Aperture Stop and Field Diaphragm Stop, Focus position, Magnification and intensity levels.
10	XY and Z Controller unit with customisable position for ergonomic placement for easy operation
11	Incident Light Source – a) LED based b) Constant Colour Temperature c) lifetime of up to 70.000 hours or more
12	Camera a) Resolution: 6 MP or more b) Colour depth: 3x12 bits or better c) Exposure time: 1ms – 1s or wider d) Camera sensor (diagonally) should capture more than 73% of diameter on eyepiece. e) Dynamic range: 72 dB or higher
13	3-plate Scanning Stage a) Travel range: 100 x 100 mm b) Screw pitch: 2 mm, c) Resolution: 0.01 μ m,



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	d) Accuracy: $\pm 3 \mu\text{m}$, e) Repeatability: $< 1 \mu\text{m}$
14	Motorized Focus a) Z stroke: 25 mm b) Step size (min. increment) :10 nm or smaller c) Max. speed: 5 mm/sec. d) Max. load: 4 kg
15	Image Analysis with dedicated modules for – A) Digital Reticule – to projects a grid / pattern directly onto the camera image on a monitor and auto calibrated as per the active magnification. It can be exchanged with a simple mouse click. Include various digital reticule files, including specific solutions for Phase Analysis, Grain Size Analysis as per ASTM E112, DIN/EN/ISO 643), and Non-Metallic Inclusion Rating as per ASTM E45, ISO 4967, EN 10247 (2007). B) Metallography toolbox – to allow measurements such as multi-layer thickness, Dendrite Arm Spacing, Banding etc. C) Z- Stack acquisition automatically using motorized built-in focus within the microscope hardware. D) The Extended Depth of Field (EDOF) function effectively sums up only the in-focus area of each image in a three-dimensional image stack and creates a single EDOF image from this data. EDOF can be used online during Z stack acquisition as well as offline processing tool E) 3D surface to understand the surface profile and topographies in micron scale for surface level variation to study defects, fracture, surface failure, cracks and flaws. Surface software should allow generation, reviewing and measurement of 3D surface views originating from image z-stacks. It should include 3D Software viewer and 3D measurement facility. F) 3D Software viewer – Allows easy 3-D orientation from different perspective for detail analysis. G) 3-D Measurement – Allows measurement of various 3-D features like height or depth, height map across a user defined line.
16	Hand Press with 5 nos. of metal slides for adjusting the sample surface inclination.
17	Computer workstation with Intel Core i7 or better, 64 GB DDR5 RAM, 2 TB SSD+ 1 TB HDD, WIN 10 PRO, 8 GB GRAPHIC CARD, KEYBOARD MOUSE, 27" LED MONITOR
18	Microscope table / platform
19	Warranty: 1 years

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To,
The Registrar,
Indian Institute of Technology (Indian School of Mines)
Dhanbad -826004
Respected Sir,

In accordance with the order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020, I hereby declare that

i) I am aware about all provision mentioned in Bid No.as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and abides by the same.

ii) I declare that for this tender, I am a **Class-I local supplier / Class-II local supplier / Non-local supplier** (Strike out whichever is not applicable) and classification is based on local content of goods/services/work offered by bidder in this tender.

iii) **Local content (in percentage) in offered good/services/work is: _____ %**

Whereas 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

iv) The local content for all inputs which constitute the said goods/services/works has been verified and bidder is responsible for the correctness of the claims made therein.

v) Details of items, amount and location(s) at which the local value addition is made:

Sl. No.	ITEM (S)	AMOUNT	LOCATION(S)
1.			
2.			
3.			
4.			
5.			
6.			
7.			

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

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1. I / We _____ (Tenderer) hereby declare that the firm / agency / Company, namely M/s _____ has not been declared as **insolvent**.

AND

2. I / We _____ (Tenderer) hereby declare that the firm / agency / Company, namely M/s _____ has not been **blacklisted or debarred** in the past by Union / State Government or Organization from taking part in Government tenders in India.

OR

2. I / We _____ (Tenderer) hereby declare that the Firm/Agency/Company, namely M/s _____ was **blacklisted or debarred** by Union/ State Government or any Organization from taking part in Government tenders for a period of _____ years w.e.f. _____ to _____. The period is expired and now the Firm/Agency/Company is entitled to take part in Government tenders.

In case the above information is found to be false I / We are fully aware that the tender/contract will be rejected / cancelled by Director, IIT(ISM) Dhanbad, and EMD shall be forfeited.

In addition to the above the Director, IIT(ISM) Dhanbad will not be responsible to pay the bills for any completed/partially completed work.

Date:**Place:****Self Certification:** _____**Name:** _____**Address:** _____**Stamp:**



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Annexure- IV

UNDERTAKING

(To be signed and submitted/uploaded along with Technical bid documents on Company's Letter Head)

(As per Office Memorandum No. F.7/10/2021-PPD(1) dated: 23.02.2023 issued by Department of Expenditure (Ministry of Finance), Govt. of India)

Model certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

Place:

Signature:_____

Date:

Name:_____

Stamp:_____

OR

Model certificate for tenders for work involving possibility of sub-contracting

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contracting from such countries I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub contract any work to a contract form such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Provide Compliance for the above in Vendor Specified Commercial Terms.]"

Place:

Signature:_____

Date:

Name:_____

Stamp:_____



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Name of the Bidder _____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & forwarding				
Transportation				
FOR (IIT ISM) Dhanbad				
<u>GST/IGST (their rate(s) as the case may be, clearly specified)</u>				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

*(On the basis of the technical specifications submitted)

Total Bid Price _____

in words _____

Note :

(a) The Price schedule of optional items shall be indicated in a separate sheet in the same Performa.

(b) Cost spare parts may be indicated separately

Signature of Bidder

Name _____

Business

Address _____