



**GOVERNMENT OF JHARKHAND
DEPARTMENT OF MINES AND GEOLOGY
DIRECTORATE OF GEOLOGY**

NOTICE INVITING TENDER (NIT)

for

**“Supply and Installation of Transmitted and Reflected Light Research
Microscope with Software Attached Camera”**

**DIRECTORATE OF GEOLOGY, DEPARTMENT OF MINES AND
GEOLOGY GOVERNMENT OF JHARKHAND**
(Engineers' Hostel No-2, 2nd Floor, Dhurwa, Ranchi-834004)

NOTICE INVITING TENDER (NIT)

NIT No. 01/2026-27

Date: 18.09.2026

The Directorate of Geology, Department of Mines and Geology, Government of Jharkhand (GoJ), is primarily responsible for carrying out geological and mineral exploration activities across the State. To support these operations, a **Transmitted and Reflected Light Research Microscope with Software Attached Camera**—an essential tool for laboratory studies and geological and mineral exploration—is required by the Directorate of Geology.

Accordingly, sealed quotations are invited from reputed and eligible firms/suppliers under the Two-Bid System (Technical Bid and Financial Bid) for the supply of Transmitted and Reflected Light Research Microscope with Software Attached Camera for the official use in the Directorate of Geology, Jharkhand.

This NOTICE INVITING TENDER (NIT) can be downloaded from the official website: **www.jharkhand.gov.in** and will also be available at the **Notice Board** of the Directorate of Geology. Any corrigendum or updates will be published exclusively on this portal as well as at the official Notice Board. Interested firms/suppliers are advised to regularly check the website and the Notice Board for updates. Firms/Suppliers meeting the eligibility criteria outlined in this NIT are invited to submit their Quotations accordingly.

Sd/-

Director, Geology
Directorate of Geology,
Department of Mines & Geology,
Government of Jharkhand

NOTE: *The Directorate of Geology, DMG, GoJ reserves the right to (i) reject any or all applications without assigning any reason whatsoever; (ii) reschedule the application date(s) due to any unforeseen circumstances at any stage of the Tendering(NIT) Process; (iii) cancel the Tendering (NIT) Process at any stage, without assigning any reason(s) for the same.*

1. BID DATA SHEET:

S. No.	Particulars	Information
1.	Name of work	Supply and Installation of Transmitted and Reflected Light Research Microscope with Software Attached Camera.
2.	Contact Person and Address for Communication	Director, Geology; Directorate of Geology, Department of Mines & Geology, Government of Jharkhand; Engineers' Hostel No-2, 2 nd Floor, Dhurwa, Ranchi-834004; E-mail ID: dir-geology@jharkhandmail.gov.in
3.	Cost of NIT	NIL
4.	Validity of the Rate/Price Offered by the Bidders	180 days
5.	Tender publication date	18.09.2026
6.	Last date of submission of Bids/NIT	05.10.2026 till 01:00 PM
7.	Bid/NIT opening date	05.10.2026 up to 03:30 PM.
8.	Period of issue of NIT	18.09.2026 to 05.10.2026
9.	Mode of Bid submission	The bid must be submitted through the Speed post/Registered post in a sealed envelope clearly mentioning the NIT reference number and the subject matter on the sealed envelope.
10.	Address of Bid submission	Directorate of Geology, Engineers' Hostel No-2, 2 nd Floor, Dhurwa, Ranchi, Jharkhand, PIN-834004

Sd/-

Director, Geology
Directorate of Geology,
Department of Mines & Geology,
Government of Jharkhand

2. SCOPE OF WORK AND SPECIFICATION:

Supply and installation of a “*Transmitted and Reflected Light Research Microscope with Software Attached Camera*” as per the technical specifications mentioned below:

Sl. No.	Features	Specification
1	Type	Polarizing Microscope with Reflected and Transmitted light with Digital Camera & Computer System
2	Mode	Transmitted and reflected light applications.
3	Illumination	100W Halogen or Advance high power constant colour LED 15W source (Total 2 numbers each for RL and TL) Power supply 90-230 V & 50/60 Hz for RL and TL.
4	Objective and Reflector	a) Objective: Objective lens for 2.5X, 5X, 10X, 20X, 40X and 50X or more. Objectives Lens for thick polished sections/lumps. Oil 20X (0.40) (Oil)/50X(Oil) and 100X(Oil) more for RL light used for without coverslip Eyepiece 10x focusable, Field of View: 22mm or more. b) Crosshair on eyepiece with micrometre scale. c) Crosshair orientation should be maintained independent of Interpupillary distance (IPD) adjustment. d) Dioptre adjustment in both eyes.
5	Polarizer & Analyzer	Polarizer & Analyzer- 180°/360° rotatable polarizer with rotatable analyzer slider (for transmitted and reflected light).
6	Compensators	Compensators a) Lambda Plate b) Quarter-wave plate
7	Display	Optics: - The internal optics should be free of any distortions and should give clear and aberration free images.
8	Stage	a) 360° rotatable stage with size 175 mm diameter or more. b) Stage calibration in 1° increments and Vernier on two sides to 0.1 degree. Brake for securing rotation location.
9	Focus Drive	Manual type with three steps adjustable focus drive (coarse/medium/fine).
10	Conoscopy	Bertrand Lens-Focusable Bertrand lens with conoscopy module.
11	Condenser	Universal condenser with variable condenser disc to correct spherical and chromatic aberrations. Accessories & spares: Sufficient number of light source/bulbs to be provided for minimum 10,000 hours operation (In case of halogen 04 bulbs and LED 02 bulbs).
12	Filters	Normal (day light), grey, yellow and blue filters in case of Halogen
13	Point Counting Stage & Software	Suitable for Point Counting
14	Camera & Imaging Software	a) Digital Colour camera for microscopy with software control b) Resolution 6 megapixel or more c) Pixel size 2.4 µm x 2.4 µm or bigger
15	Software for System Control	a) Image acquisition software for Image capturing, pixel calibration, scaling, length measurement and annotation. b) It is mandatory to use a minimum of 2-pixels to patch-up the smallest resolvable distance at all the magnifications levels so that full optical performance can be captured by the camera sensor.

16	Computer System	Latest Model or Intel core i7 or above processor, HDD 2 TB, RAM 32 GB, Graphic Card 4 GB or above; Full HD TFT/LED, 27" Monitor, OS Windows 11 Professional or higher and Colour Laser printer of Reputed companies.
17	UPS	Microscope platform and UPS of 1.5KVA with maintenance free Batteries to provide minimum 30 Minutes backup.
18	Others	Technical Details: Should provide technical details/brochure in support of the same model quoted from the equipment manufacturer. Compliance Statement: Complete pointwise compliance statement of all the parameters should be provided. Installation / Commissioning & Training: a) The supplier/ Vendor shall install and commission the equipment by their competent service engineer(s). The party shall demonstrate all specification and operation at the time of installation. b) The supplier/ Vendor shall replace defective parts if found any, during installation or during the warranty period. This replacement shall be done within a month's time at supplier/ Vendor 's cost. c) The supplier/ Vendor 's service engineer must demonstrate the performance of the system as specified in the offer and also must provide training to technical/scientific staff of State Geological Laboratory Hazaribagh on operation, application and troubleshooting of the system after installation. Basic instrumentation drawings/ configuration, manuals are to be supplied along with the unit for ready reference. d) Installation / commissioning & Training charges (including to and fro charges, accommodation, all kind of transportation of supplier/ Vendor's personnel), if any, it must be included in the total cost or will be free of cost.
19	Warranty	Warranty: Minimum 5-years comprehensive warranty from the manufacturer on all microscope parts and components, imaging software and attached computer hardware. After warranty Annual Maintenance Contract (AMC) for a period of three (03) years to be provided and this price will also be included in price bidding. Supplier shall be responsible for supply of all sorts of Spares including the consumables for atleast 10 years that are required for the smooth functioning of instrument. "An undertaking letter must be provided regarding spares and service support for atleast 10 years for the smooth functioning of the instrument."

3. QUANTITY OF THE ITEM:

Required quantity of Transmitted and Reflected Light Research Microscope with Software Attached Camera: **01(One)**

Note: An additional supply order for **01 (one) more microscope**, conforming to the specifications mentioned above, may be placed at the **finalized L1 rate**, subject to the requirement.

4. PREPARATION AND SUBMISSION OF BID:

The bid shall be submitted in **two (02) separate envelopes**, both placed inside a single main cover/envelope, as detailed below:

A.) Technical Bid: The bidders must submit the following **self-certified** documents in the Technical Bid envelope:

- a) Name of Applicant (OEM/OEM Authorized Agency):
- b) Name of Authorized Person (Proprietor/Partners/Director):
- c) Address of the Firm with e-mail ID and contact details:
- d) Address of the Registered Office:
- e) GST registration details (with certified copies):
- f) Permanent Income Tax Number, (PAN; with certified copies):
- g) Tenderer's Bank Account Details:
- h) Registration & incorporation particulars of the firm (with certified copies):
- i) Power of Attorney/Authorized Signatory signing the bid (with certified copies):
- j) Annual Turnover: The minimum average annual turnover for the bidder and the OEM should be **Rs. 50 lakhs** and **Rs. 100 lakhs** respectively in the last 03 financial years. Audited Balance sheets should be submitted along with the bid.
- k) Net worth: The bidder must have a positive net worth as per the latest audited financial statements. A certificate from the Statutory Auditor, certifying the positive net worth, shall be submitted along with the tender documents.
- l) Applicant should submit Notarized (*on non-judicial stamp paper worth Rs. 100*) Certificate that Company/Firm/Individual has not been blacklisted in the past by any organization. Non-compliance shall result in rejection of bid.
- m) Technical Catalogue of quoted product: The technical catalogue/brochure of the quoted product shall be enclosed with the Technical Bid. The bidder must also submit a declaration confirming compliance with the prescribed technical specifications. ***No deviation in this regard shall be permitted, and the bid of any agency not complying with the same shall be summarily rejected.***
- n) ISO 9001 & 14001 Certification: The bidder/OEM should have a valid ISO 9001 & 14001 Certification.
- o) Warranty Declaration: As mentioned in the technical specification under scope of work.
- p) OEM Authorization certificate: The bidder should submit OEM Authorization certificate along with the bid.
- q) Details of Micro, Small and Medium Enterprises (MSME) firm, if applicable (attach relevant documents).
- r) Previous relevant work experience: Bidder/OEM should submit copies of supply order along with performance certificates for the Transmitted and Reflected Light Research Microscope with Software Attached Camera.

B.) Financial Bid: The Financial Bid should contain **unit price** of the Transmitted and Reflected Light Research Microscope with Software Attached Camera including all applicable Taxes and delivery charges. The Financial Bid must be submitted strictly in the format attached with this NIT as **Annexure-I**.

5. SUBMISSION INSTRUCTIONS

- a) The envelopes, of “TECHNICAL Bid” AND “FINANCIAL Bid” (**Annexure-I**) must be clearly mentioned and should be properly sealed.
- b) Further, these envelopes are to be placed inside a big envelope and properly sealed.
- c) The NIT which are not submitted in above-mentioned manner shall be summarily rejected.
- d) NIT reference number and the subject matter must be clearly mentioned on the sealed envelope.

6. TERMS AND CONDITIONS

- a) The Directorate reserves the right to accept or reject any quotation at any stage of the NIT (tendering) process without assigning any reason(s).
- b) The techno-commercial bids shall be evaluated by a duly constituted committee of the Directorate of Geology, Government of Jharkhand.
- c) In the **first stage**, the envelopes containing the technical bids shall be opened and examined by the evaluation committee. Based on the assessment of eligibility, qualifications, and technical responsiveness, bidders found suitable shall be declared as **technically qualified**.
- d) In the **second stage**, the financial bids of only the technically qualified bidders shall be opened and evaluated. The bidder quoting the lowest financial bid/rate (**L1**) shall be declared the **L1 Bidder/Firm/Supplier** and awarded the work order, subject to approval and fulfilment of all other terms and conditions of this NIT.
- e) The rates quoted shall be valid for **180 days**.
- f) Delivery Period: Within **90 days** of issue of the Supply Order.
- g) Payment will be made after successful delivery and verification.
- h) Delivery of the item shall be made to the **designated location** of the Directorate of Geology.
- i) Only brand new and unused item will be accepted.
- j) Late or incomplete bids shall be rejected.

- k) **MSME Exemptions:** All exemptions related to Micro, Small and Medium Enterprises (MSME) units shall be applicable exclusively as per the ‘Government of Jharkhand Procurement Policy 2014 (as amended vide memo no. 1342, dated-16.07.2019)’ & ‘Jharkhand Procurement of Goods and Services Manual, 2024’.
- l) **Performance Security Deposit:** The bidder shall deposit performance security in the form of Bank Guarantee (**Annexure-I**) at the rate of **2%** of the finalized L1 rate/total contract value of the subject matter of procurement subject to exemption or relaxation approved by the State Cabinet of the Government of Jharkhand *in accordance with para 6.5 (Performance security) of the “Jharkhand Procurement of Goods and Services Manual, 2024” and para- 11.0(i)(b) (Reduction in Transaction Cost) and para- 3.0 (Applicability) of the “Jharkhand Procurement Policy 2014 (as amended vide memo no. 1342, dated-16.07.2019)”*. The bank guarantee should be issued by any Nationalized/Nationalized Scheduled bank in favour of “**Director, Geology, Directorate of Geology, Department of Mines and Geology, Govt. of Jharkhand**” payable at Ranchi.
- m) The performance security deposit shall be retained as security for the **entire warranty period**, which shall be a minimum of **05 (five) years**. The Performance Security shall be refunded **without interest** upon satisfactory completion of the warranty period and fulfillment of all contractual obligations by the supplier.
- n) All **disputes** shall be settled within the territorial Jurisdiction of the **Court of Ranchi, Jharkhand** only.

Sd/-
Director, Geology
Directorate of Geology,
Department of Mines & Geology,
Government of Jharkhand

Annexure-I: FINANCIAL BID FORMAT

To,

The Director, Geology
Department of Mines & Geology
Government of Jharkhand

Name of Work: Supply and installation of Transmitted and Reflected Light Research Microscope with Software Attached Camera.

Dear Sir,

I/We have undergone all the terms and conditions of this NIT document and quote our rate as following: -

Sl. No.	Name of Item	Unit Price (in Rs.) including all applicable Taxes
1	Transmitted and Reflected Light Research Microscope with Software Attached Camera	

I/We hereby declare that the information furnished above is true and correct.

Place:

Date:

Signature & seal of the Tenderer

ANNEXURE II: BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

(Bank's Name, and Address of issuing Branch or Office)

(On Non-Judicial Stamp paper of value not less than INR-----)

.....(Name of the Bank)

Address.....Guarantee

No.....A/C M/s..... (Name of Bidder)

Date of Expiry.....Limit to liability (currency & amount)

.....NIT No.....dated

For..... (Name of Facilities)

Subject: Notice Inviting Tender Security Bank Guarantee.

Date.....20

To

Director, Geology

Directorate of Geology

Deptt. of Mines & Geology

2nd Floor, Engineer's Hostel No.-2, Dhurwa,

Ranchi – 834004, Jharkhand, INDIA

Dear Sir,

In consideration of Directorate of Geology, Department of Mines & Geology Government of Jharkhand (hereinafter called "DMG") which expression shall unless repugnant to the subject of context include his successors and assigns having agreed to exempt M/s----- (hereinafter called " Bidder") from demand under the terms & conditions of "Standard NIT documents" (hereinafter called the said "NIT document") issued by DMG vide No. _____ for the work _____ (Name of the facilities) from _____ deposit of NIT security for the due fulfillment by the Bidder of the terms and conditions contained in the said NIT document on production of Bank Guarantee for _____ INR. _____ (INR _____ only) (figure in words).

1. We the _____ Bank Ltd. (Name of Bank) hereinafter referred to as "Bank" having our registered office at _____ (address of Bank) do hereby undertake and agree to indemnify and keep indemnified DMG to extent of INR. _____ (INR. _____ only) (figures in words against any losses, damage cost, charges and expenses caused to or suffered by or that may be caused or suffered by DMG by reason of any breach or breaches by the Bidder of any of the terms and conditions contained in the said NIT document and unconditionally pay the amount claimed by DMG on demand and without demur to the extent aforesaid.
2. We _____ Bank Ltd do hereby undertake to pay the amounts due and payable under the guarantee without any demur merely on a demand by you stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by you by reason of any breach by the said Bidder of any of the terms or conditions contained in the said NIT document by reason of the Bidder's failure to fulfill the conditions of said NIT document. Any such demand on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our

liability under this guarantee shall be restricted to an amount not exceeding INR.

- _____.
3. We _____ Bank Ltd. further agree that DMG shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of terms and conditions of the said NIT document and the extent of loss, damages, costs, charges and expenses caused to or suffered by or that may cause to or suffered by DMG on account thereof to the extent of the NIT Security required to be deposited by the Bidder in respect of the said document and the decision of DMG that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damages, costs, charges, and expenses caused to or suffered by or that may be caused to or suffered by DMG shall be final and binding on us.
 4. We _____ Bank Ltd. further agree that guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance on the said NIT document and that it shall continue to be enforceable till you certify that terms and conditions of the said NIT document have been fully and properly carried out by the said Bidder and accordingly discharge the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the (date) _____ we shall be discharged from all liability under this guarantee.
 5. We _____ Bank Ltd. further agree with you that you have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said NIT document or to extend time of performance by the said Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by you against the said Bidder and to forbear or enforce any of the terms and conditions relating to the said NIT Document and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Bidder or for any forbearance act or omission on your part or any indulgence by you to the said Bidder or any such matter or thing whatsoever under the law relating to sureties would but for this provision have effect of so relieving us.
 6. It shall not be necessary for DMG to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank, notwithstanding any security which DMG may have obtained from the Bidder at this time when proceeding are taken against Bank hereunder be outstanding or unrealized.
 7. We _____ Bank Ltd. further undertake to unconditionally pay the amount claimed by DMG merely on demand and without demur to the extent aforesaid.
 8. We, the said Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of DMG in writing and agree that any change in the constitution of DMG or the Bidder or the said Bank shall not discharge our liability hereunder dated _____ day of _____ 20..... for _____ Bank Ltd.

Yours faithfully

For
(Name of the Bank)

Note: Only Bank-Guarantee issued by any of the scheduled commercial bank or nationalized bank having its branch in Jharkhand shall be valid.