



Draft

**Government Of West Bengal
Directorate Of Mines & Minerals
4, Abanindranath Tagore Sarani (Camac Street), 2nd floor, Kolkata-700016.**

No. 398 MD/2C-687/23

Kolkata, the 10th October, 2023.

NOTICE INVITING ELECTRONIC TENDER (E-TENDER)

In pursuance of approval from the competent authority in the Department of Industry, Commerce & Enterprises, an e-tender is invited from financially strong, reputed & bonafide Manufacturers/ Direct importers/ Authorized Distributors/ Authorized Dealers with previous experience of similar nature, through GeM Portal, for procurement and installation of the equipment in the office of the Superintending Geologist, Geological Prospecting Branch, Deshbandhu Road, P.O. & Dist.- Purulia, PIN-723 101 under this Directorate, as mentioned in the table below. The rate of the items and GST & other charges, if any, must be shown separately along with the rate of the item before quoting the rate inclusive of all taxes & charges. Warranty coverage and free maintenance, if any, must be mentioned separately and to be included in the rate quoted. The rate must remain valid for a period of one year from the acceptance of the tender.

The rate of required item, including GST & other charges, if any, should not exceed MRP of the item.

Sl. No.	Name of the Equipment	Technical Specifications	Rate to be quoted for	Required quantity
	Polarising Microscope with Digital Camera & Accessories	Refer to Annexure	01 unit	01 unit

The intending bidders may download the tender documents from our official websites <http://dmm.gov.in> and <https://wbindustries.gov.in> between 10/10/2023 to 30/10/2023 upto 2 p.m.

Hard copies of the Technical Documents (Statutory & Non-Statutory) under sealed cover should be sent by Registered/ Speed/ Courier Post only so as to reach at this office of the undersigned before 31/10/2023. within 5 p.m.

This e-tender is invited after observing all the formalities as per G.O. No. 5400-F(Y) dated 25.06.2012 of the Finance Department (Audit Branch), Government of West Bengal.

[Signature]
05/10/23
DIRECTOR OF MINES & MINERALS

No. 398(12) MD/2C-687/23

Kolkata, the 10th October, 2023.

Copy forwarded for information & necessary action to:-

1. Joint Secretary to the Government of West Bengal,
Department of Industry, Commerce & Enterprises,
E-governance Cell,
4, Camac Street, Kolkata-700 016.
2. Deputy Secretary to the Government of West Bengal,
Department of Industry, Commerce & Enterprises,
Mines Branch,
4, Camac Street, Kolkata-700 016.

[Signature]
05/10/23
DIRECTOR OF MINES & MINERALS

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Copy forwarded for information with the request to display on your office notice board for wide circulation to:

1. The Superintending Geologist,
Geological Prospecting Branch, Deshbandhu Road, P.O. & Dist. Purulia. PIN-723 101
2. The Chief Mining Officer, West Bengal,
Mining Estate Branch, Court Road, P.O. Asansol, Dist. Burdwan. PIN-713 304.
3. The Mining Officer-in-Charge of Purulia Zone,
Mining Estate Branch, G.P. Branch Campus, Deshbandhu Road,
P.O. & Dist. Purulia, PIN-723 101.
4. The Mining Officer-in-Charge of Suri Zone,
Mining Estate Branch, Lalkuthipara (Near Bibhum Talkies), P.O. Suri, Dist. Birbhum, PIN-731 101.
5. The Mining Officer-in-Charge of Hooghly Zone,
Mining Estate Branch, Uttar Rabindranagar, P.O. Rabindranagar, Dist. Hooghly, PIN-712 106
6. The Mining Officer-in-Charge of Siliguri Zone,
Mining Estate Branch, 86, Tara Sankar Road, Deshbandhupara, P.O. Siliguri,
Dist. Darjeeling, Pin. 734 004.
7. The Senior Geologist, North Bengal Unit,
Geological Prospecting Branch,
86, Tara Sankar Road, Deshbandhupara, P.O. Siliguri, Dist. Darjeeling, Pin. 734 004.
8. The Senior Geologist, South Bengal Unit,
Geological Prospecting Branch, Pranabananda Sarani, P.O. Kenduadihi, Dist. Bankura, Pin. 722 102.

20/05/10/23

DIRECTOR OF MINES & MINERALS

ANNEXURE: I

Technical Specifications for Polarizing Research Polarizing Microscope with Digital Camera & Accessories		
S. No.	Item	Description
1	Microscope Body/Frame	<ul style="list-style-type: none">• Polarising Microscope for reflected light (RL) and Transmitted light (TL) illumination
2	Stand & Nosepiece	<ul style="list-style-type: none">• Stand with 5 position or more with All position centerable nosepiece for all the objectives with slot for nosepiece compensator.
3	Phototube	<ul style="list-style-type: none">• Beam splitting for simultaneous observation through eyepieces and live display of image on screen.• Trinocular observation tube with inclination 30 degree• Interpupillary distance should be adjustable maximum up to 75mm
4	Focus	<ul style="list-style-type: none">• 3-gear focus drive (coarse / medium / fine) with 1- and 4-micron torque adjustment, and adjustable upper focus stop• Self-adjusting focus mechanism
5	Eye Piece	<ul style="list-style-type: none">• Eye piece wide field 10X/22 mm FOV with locking screw on left eye tube and cross hair graticule• Eye pieces should be suitable for observation with and without eyeglasses
6	Illumination	<ul style="list-style-type: none">• Reflected light illuminator with built in adjustable aperture diaphragm produce bright, crisp and maintenance free lighting for all samples• Oblique illumination / DIC for incident light observation for better observation of surface relief.• Hi- Power Constant colour 15 W LED (4500K) with intensity control facility• Reflected light illuminator incorporates 4-fold turret, color-coded diaphragm assistant (CDA)• Reflected Axis should contain built-in quartz plate to avoid pseudo-pleochroism
7.	Contrast	<ul style="list-style-type: none">• Bright Field Contrast with SMITH reflector• Polarization
8.	Objectives	<ul style="list-style-type: none">• Strain free Achromatic POL objective• 2.5x/0.07 Free Working Distance 11 mm or more• 5x/0.12 Free Working Distance 14 mm or more• 10x/0.25 Free Working Distance 17 mm or more• 20x/0.40 Free Working Distance 1 mm or more• 40x/0.65 Free Working Distance 0.30 mm or more• Objectives suitable for both transmitted and reflected light
9.	Condenser	<ul style="list-style-type: none">• Pol Aplanatic condenser (A 0.9) with switchable Condenser head• Colour coding for fast and easy adjustment of the aperture diaphragm
10.	Analyzer and Polarizer	<ul style="list-style-type: none">• Analyser rotatable 180° with Scale• Transmitted light polarizer should be in mount and Reflected - rotatable with 3 orientations 0°, 45° and 90°
11.	Compensators	<ul style="list-style-type: none">• Gypsum plate & Mica plate
12.	Conoscopy	<ul style="list-style-type: none">• Centerable Bertrand Lens for Conoscopy applications
13.	Stage	<ul style="list-style-type: none">• Pol rotating stage, with ball bearing, rotation clampable, Diameter 177 mm or more, with 2 verniers• Object guide with interchangeable resting buttons for point counting scanning area appr. 30 x 40 mm with 2 Vernier 0.1 mm and xy-control movement.
14.	Camera & Software	<ul style="list-style-type: none">• CMOS/CCD Sensor, minimum 6 megapixel or more• Pixel Size 2.4 um X 2.4 um or better

		<ul style="list-style-type: none"> • Dynamic range 70dB or more • 3 x 12-bit = 36-bit RGB • Suitable C-mount for optimal acquisition condition • Connection: USB 3 • Software for basic measurement, calibrated measurement parameters such as length (Point to Point), Basic image processing tools (crop, resize, sharpening, color adjustment, background filter, median, blur). Visual Comparison view. • Microscope, Camera, and software shall be from the same / single manufacturer for better synchronization.
15.	Dust Cover	<ul style="list-style-type: none"> • One Antistatic Dust Cover should be supplied for the protection of the microscope.
16.	Warranty	<ul style="list-style-type: none"> • 1 year Standard Warranty from the date of Installation
17.	Accessories	<ul style="list-style-type: none"> • Reputed Brand Documentation system with minimum configuration i7 processor, 16 GB RAM, 1 TB HDD+ 1 TB SSD Drive, 2 GB Graphics Card, Branded 27" or more Full HD LED screen and suitable operation systems MS Office Professional 2021- 01 Quantity • 1.5 Ton room cooling systems with 5-star Power Consumption with – 01 Quantity • Suitable Dehumidifier – 01 Quantity
18.	Installation, Training & Commissioning	<ul style="list-style-type: none"> • Installation, Training and Commissioning will be given by Manufacturer's trained engineer at our Purulia Station without any additional cost.
19.	Evaluation Criterion	<ul style="list-style-type: none"> • Bidder should have updated brochure uploaded in their global website. (Availability of brochure on request will not be granted) • Buyer may ask for physical demo of the Microscope in Directorate of Mines & Minerals, West Bengal. Decision of the DEMO for any bidder depends on the discretion of the technical evaluation committee. Image quality & performance of POLARIZING samples will decide the technical qualification of the bidder.

N.B. The EMD in the form of Demand Draft should be in favour of "The Director, Directorate of Mines & Minerals, W.B."

