DHARANIDHAR UNIVERSITY,
KEONJHAR-758001, ODISHA

TENDER CALL NOTICE

Ref. No.: 23EM/GL/ 85/01 **Date:** 25-01-2025

Sealed tenders are invited from recognized Firms/Manufacturers/ Distributors/ Authorized Dealers with valid GSTIN for the supply of petrological microscope for the research project under MRIP-2023 funded by OSHEC, Govt. of Odisha titled "**Petrographic studies of Banded Iron Formations of Bastar Craton: Constraints on the evaluation of seawater oxygenation conditions**".

Last Date: Sealed tender complete in all respect must reach to: **The Principal Investigator, MRIP-2023/23EM/GL/85, Dept. of Geology, Dharanidhar University, Keonjhar-758001** on or before 10/02/2025 by 5.00 PM. The authority reserves the right to cancel the tender without assigning any reason thereof.

Dr. Prasanta Kumar Mishra
Principal Investigator,
MRIP-2023 (23EM/GL/85)
Dept. of Geology
Dharanidhar University,
Keonjhar-758015

The details of requirement are given below:

Specifications for Polarizing Microscope with Incident light and transmitted light Orthoscopy and Conoscopy)

1. 4-position individually centrable knurled nosepiece for exact centration of each objective to the stage rotation axis, for quick and easy change of magnification.
2. Plan POL Objectives: 4x/0.10 NA 26.2mm W.D., 10x/0.22 NA 7.8 W.D., & 20x/0.40 NA 1.15 W.D.
3. Circular 360° rotatable stage with anodized surface. Diameter 178 mm or more and laser engraved stage calibration in 1° increments and verniers on two sides to 0.1°. Should have brake for securing rotation location.
4. 30° Pol trinocular tube (50 % / 50 % light split) with slot for alignment, 90° and 45° orientation feature on right eye tube for crosshair eyepiece. Eyepiece locking screw on left eye tube. Interpupillary distance range 52 mm – 75 mm.
5. A pair of 10X/20 focusing eyepiece with eye guard and one with built-in Crosshair reticle

6. 25,000 hours long life LED illumination with constant color temperature technology cool, white light. Continuous intensity adjustment. Illumination enough for viewing at lowest intensity. 2 hours Auto off (can be disabled or enabled).

7. Conoscopy module with Advance focusable and centrable Bertrand lens and analyzer with labeled flip in / flip out controls. The complete module should be inside protective housing.

8. 530nm Lambda and Nosepiece Compensator

9. Strain-free Pol Abbe Condenser 0.85 (for magnification 4x-100x) with variable and adjustable aperture diaphragm with magnification labels properly marked on it. Centrable and focusable condenser mount.

10. Koehler illumination with variable and adjustable field diaphragm as well as aperture diaphragms.

11. Rotatable Polarizer (built-in scale) for Transmitted light with locking thumbscrew with quick swing-in and swing-out mount.

12. Focus: Low position focus controls. Self-adjusting focus mechanism. 300 microns per fine focus rotation. Calibrated in 3-micron increments. Weighted focus knobs.

13. Built-in storage positions for centering screws with magnetic attachment and 2 detent attachment for nosepiece compensators to prevent loss.

14. Microscope stand construction Die-cast aluminum, designed for easy carrying and lifting with vertical handle and undercut in front of stand with a cord wrap

15. Incident light 4-segment LED illumination for Brightfield, Oblique and Polarized light. Built-in adjustable aperture diaphragm. Built-in Polarizer with 0°, 45°, and 90° click stops and 180° rotatable analyser slider with scale.

16. All touchpoints should be with Anti-Microbial treatment to inhibit the growth of bacteria / germs in a multiuser environment as in educational institutions.

17. Certifications: CE, RoHS, Main optical components meet ISO 9022-11 for mould growth.

18. EC declaration of conformity for EN 62471:2008, 2014/35EU, 2024/30/EU, 2011/65/EU & 2015/863/EU or equivalent standards by BIS mentioning the unique part number for the quoted model of microscope.

19. Dust Cover and User Manuals

20. Warranty: 1 years and Microscope should be future upgradable on request.

21. Should be able to Physically demonstrate the product within our institute if required at the time of technical evaluation.