

Indian Institute of Technology (Indian School of Mines) Dhanbad – 826004, Jharkhand, India

CORRIGENDUM

No. AGL/500432/16-17

Sub: Supply & Installation of Trinocular Polarising Microscope with Transmitted & Refelected Illumination and Dedicated Camera with Computer and Software.

Sir,

Please refer to our NIT No. AGL-500432-16-17 dated 25.01.2014 regarding supply & installation of Trinocular Polarising Microscope with Transmitted & Refelected Illumination and Dedicated Camera with Computer and Software.

There was some inadvertent mistake in the earlier specification, hence, the revised specification of Trinocular Polarising Microscope with Transmitted & Refelected Illumination and Dedicated Camera with Computer and Software is enclosed in **Annexure-I**. The due date of the above mentioned NIT No. is changed from **21.02.2017 to 28.02.2017**.

You are requested to submit your offer according to the revised specification **immediately** after receipt of this corrigendum.

All other terms & conditions remain unchanged.

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Corrigendum

Annexure-I

Specifications for Polarzing Microscope With Transmitted & Reflected Illumination & Camera

Basic Equipment:

- Infinity corrected optical system with facility for uniform illumination throughout the entire field of View.
- Three Way Trinocular tube, FOV 25mm or better inclined at 30°.
- Eyepiece 10X (F.O.V 25mm or better), one with cross hair and Micrometer scale, Diopter adjustment on both. With Eyepiece guard and Eyepiece Cap.
- Reversed centering Quintuple (detachable) Nosepiece, DIN slot, all slots should be centerable
- Coaxial Coarse/Fine Focus knob. Focus stroke-at least 25mm. Fine stroke at least 100 μm, Minimum reading in 1 um increments. Clamp Type Upper Limit focusing mechanism ensures easy and safe Sample exchange.
- Manual X-Y slider attachable with stage for easy handling of petrographic glass slides.
- Dedicated circular graduated stage rotatable 360° horizontally, can be fixed at a specific position. Graduated 360° in 1° increments, Click stops at each 45°.
- Built-in Focusable Bertrand Lens removable from optical path. Conoscopic/Orthoscopic Observations switchable, built-in Analyzer and Plate/Compensator slot.
- Analyzer 360° Rotary dial, Minimum reading angle 0.1°.
- 360° rotatable Polarizer fixed to the bottom of the Condenser holder, scale.
- Fixable at specific position with Stage Clip
- Nosepiece with a pair of centering screws
- Compensators: Standard $1/4\lambda$ and tint Plate, Quartz wedge and $\frac{1}{4}$ Lambda or Mica Plate
- Stage Micrometer.
- Strain-free swing out type Condenser dedicated stain free, Achromatic N.A 0.9, with iris diaphragm
- Long working distance Objectives:-
 - Semi Apochromatic 1.0/1.25/ 1.5X
 - o Semi Apochromatic 4X, N.A. 0.1
 - o Semi Apochromatic 10X N.A 0.3
 - o Semi Apochromatic 20X N.A. 0.4
 - o Semi Apochromatic 50X N.A.0.80
 - o 50/60X Oil
 - o 100X Oil

- 12V-100W or more Diascopic and 12V-100W or more Episcopic Polarized illumination Halogen /LED Lamp with built-in power supply.
- Light balancing filters.
- Dust cover.
- MICROSCOPIC CAMERA
 5MP or higher USB 3.0 dedicated CCD/CMOS microscopic camera attachable with computer. Camera from same supplies of microscope. Field of View must be 80% or more visible through eyepiece.
- ANALYSIS SOFTWARE
 Acquisition, Documentation, Measurement, AVI Live-stream (Video Recording) capture,
 Live Image Capture, Calibration, measurement, Count, length, area, angle, circle and ellipse,
 Automatic measurement & data. Sheet for sample of same intensity annotations, cropping,
 image stitching etc.
- Computer
 Branded Computer with i5 processor, 4GB RAM, 500GB HDD, 19" LCD Monitor, Licensed WIN10 O/S.
- Automatic Point Counting System:
 Micro Chip based, LCD display, Electronic Point Counter with long duration Memory back
 up with 12 or more individual phase count option, total count, percentage, Steps in both X axis Y-axis selection, progress mode, alarm in every 100 counts. Stepper motor with step size
 from .05mm to1mm (10 or more steps) for both X & Y axis. Software to transfer data to
 computer.
- **Microscope, Camera & Software should be from same manufacturer/ supplier for best compatibility & service support