INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Department of Earth Sciences

Enquiry No: ES/DEPTT/ RS/2016-2017/14   **Date: 08.12.2016**

SUBJECT: QUOTATION FOR SUPPLY OF UPRIGHT RESEARCH MICROSCOPE (NEEDED SPECIFICALLY FOR PALYNOLOGICAL WORK) WITH DIGITAL CAMERA SYSTEM AND IMAGE ANALYSIS SOFTWARE.

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us by December 18, 2016 in the form of a hard copy to the address mentioned below. If you have any question please call Dr. Rajiv Sinha at 0512-2597317, email: rsinha@iitk.ac.in

The prospective suppliers are required to send quotation in two parts in sealed envelopes, as "Technical Bid" and "Financial Bid". The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. **The two separate and sealed envelopes should be clearly marked appropriately as "Technical Bid" and "Financial Bid". Kindly write the inquiry no on the top of envelop.**

Terms and Conditions:-

1. Maximum education discount, if any should be offered
2. Validity of quotation should be at least for 60 days
3. Prices should be on CIF and FOB separately (if imported)
4. Prices should include the installation and training cost
5. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection).
6. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc

TECHNICAL SPECIFICATION OF: UPRIGHT RESEARCH MICROSCOPE WITH DIGITAL CAMERA SYSTEM AND IMAGE ANALYSIS SOFTWARE

Optical system	UIS2 Infinity corrected optical system
Microscope Frame	Focus Vertical stage movement: 25 mm stage stroke with coarse adjustment limit stopper, Torque adjustment for coarse adjustment knobs, Stage mounting position variable, High sensitivity fine focusing knob (minimum adjustment gradations: 1 μm) Built-in filters (LBD-IF, ND6, ND25, optional) Dust Cover 2 bottles of Immersion oil 30 cc
Illumination	Built-in illumination for 12 volts 100 watt transmitted light, Light preset switch, Light intensity LED indicator and 4 nos 12 volts 100 watt halogen bulb.

Nosepiece	Sextuple revolving nosepiece with a slot for analyzer or DIC slider
Mechanical stage	Ceramic coated surface mechanical stage with right-hand low drive control with rotating mechanism and torque adjustment mechanism along with specimen holder for two slides
Condenser	Swing out condenser
Observation head	Trinocular observation head having in built dioptre adjustment on one eyepiece tube. Three position light path selector (0:100/80:20/100:0); FOV:22mm
Eyepiece	Widefield eyepiece 10X/22mm (Anti-Fungal Type) Widefield eyepiece 10X/22mm (Anti-Fungal Type); Focusable
Objectives	Plan Achromat objective 10X/0.25, WD 10.6 Plan Achromat objective 20X/0.4, WD 1.2 (spring) Plan Achromat objective 40X/0.65, WD 0.60 (spring)) U plan semi Apochromat / Fluorite objective 60X/0.9 WD 0.2 with correction collar (spring, c.c. 0.11-0.23) U plan semi Apochromat / Fluorite objective 100X/1.3, WD 0.2 (spring, oil)
Digital camera System	Image Sensor : Color CCD, Sensor Size : 1/1.8 inch, Resolution (max.) : 1920 x 1440 pixels, Pixel Size : 3.69 x 3.69 μm, Binning : 2 x 2, A/D Converter : 12 bits, Exposure Times : 50 μs - 8 s, Live Frame Rates : 25 fps at 1920 x 1440 pixels , 25 fps at 960 x 720 pixels, 30 fps at 1920 x 1080 pixels (28 fps at 1920 x 1080 pixels with PC configuration), Data Transfer : USB 3.0, Partial Readout, C-mount adapter with 0.5X lens
Image Analysis Software	**Layout:** User experience customization **View:** Overlay multiple images, Document groups for side-by-side image comparison, Movie playback, Tile view (multiple images in a single data set shown side-by-side). **Image Acquisition:** Snap/movie acquisition, Time-lapse at specified interval. **Image Processing:** Geometry/combine/filter processing. **Image Analysis:** Region and line measurements, Interactive measurement, Object counting (Manual).
Extended Focus Imaging	The software should create a single in-focus image from successive image planes as the focus knob is turned using the Extended Focus Imaging function.
PC and Printer	Image Recorder(DELL/HP) Intel core i5 Processor, 8GB RAM, 2 TB HDD, USB 3.0 Port , 64 Bit Windows 7 Professional, 21'' FHD LED Monitor, Antivirus, Key board, Mouse, 2 kVA UPS, High resolution colour laser printer

KINDLY MENSION PRICE SAPERATLY FOR EACH ITEMS AND ACCESSURIES.

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Dr. Rajiv Sinha
Professor
Department of Earth Sciences
WLE Room no 202
Phone: +91-512-2597317 (Office)
Email: rsinha@iitk.ac.in