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बीरबल साहनी पुरावनस्पतिविज्ञान संस्थान
BIRBAL SAHNI INSTITUTE OF PALAEOBOTANY
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(भारत) (INDIA)

(भारत सरकार के विज्ञान और प्रौद्योगिकी विभाग का एक स्वायत्तशासी संस्थान)
(AN AUTONOMOUS INSTITUTION UNDER DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA)

संख्या C-1050

No.Dear Sir,.....

दिनांक 03.12.2015

Dated

We are in need of an Upright Trinocular Compound Microscope with the following specifications (attached). You are requested to send us your lowest rate for the same in a sealed cover superscribing "Quotation for Upright Tricocular Compound Microscope" latest by December 18, 2015.

Yours sincerely,

(R.S. Singh)
Scientist 'G' with
additional duties of Registrar

✓ Convener

BSIP Web Site Committee
BSIP, Lucknow

Upright Trinocular compound Microscope with Camera and Image analyser software

Part	Specification
OPTICAL SYSTEM	Infinity corrected optical system. All optics must be arsenic/lead free with antifungal treated. Magnification 100x-1000x for observation
EYEPIECE TUBE	Trinocular with minimum 20mm Field number having 48-75 mm interpupillary distance adjustment range inclined at 25-30° angle with 50:50 light path distribution or better
EYEPIECE LENS	10x (2pcs) with both sides diopter adjustment (F.O.V. 25mm) and higher should be anti fungus type and micrometer scale in one eyepiece
EYEPIECE LENS	10x (2pcs) with both sides diopter adjustment (F.O.V. 25mm) and higher should be anti fungus type and a cross line micrometre graticule and 0.7X adapter
OBJECTIVES	Spring loaded Objectives (10X, 40X, 60 X and 100X (oil)) with high N.A. and W.D.
NOSE PIECE	Sextuple nosepiece. to accommodate more objectives
FOCUSING	Fine 0.1mm per rotation/coarse 9.33mm per rotation. Coarse motion torque adjustable. Refocusing stopper should be incorporated
STAGE	ceramic coated surface, stage handle height & tension should be adjustable. 78mm x 54mm cross travel range using low positioned coaxial x and y motion control on right hand side with capacity to hold two slide glass at a time.
ILLUMINATION	High intensity halogen/LED illumination with uniform illumination and long life of at least 60,000 hrs
Camera	<ul style="list-style-type: none"> ➤ Digital color camera capable of handling bright field, phase contrast & fluorescence, DIC, dark field images ➤ Should with 2/3" high density CCD chip, At least 5 million pixel resolutions. 14Bit ➤ Live display mode: (4 frames/sec.; 35 frame per / sec. With roi & binning) ; binning modes : 2x2, 4x4, digital zoom : upto 16x (8 steps) ; interval shooting : 5 sec. – 12 hr intervals. Software should be come along with camera for acquiring & capturing of images. ➤ Fire wire port for attaching camera onto desktop/laptop through single wire.
Software	<ul style="list-style-type: none"> • Documentation software 3D capability • Measurement acquisition (Interactive measurement – area, length, angle, circle, point count etc) & image annotation • 3D capability • Image Acquisition • AVI live-stream(video recording) capture, • Live Image capture • Time Lapse Imaging • Z stack Annotations • ND Viewer • Large format • Macro Report Generator • Vector layer • Multi Dimensional • File format tiff. Jpg etc

PC	With Core i5processor, 8GB DDR3 RAM, 2GB Graphic card, 1 TB HDD 21"-24" LED monitor and all other standard configuration live & expansion slots, network interface, 4USB 2.0; 2USB 3.0; 1 headphone, 1 audio live in; 1 audio live out, 1VGA, 1RJ-45; USB wired mouse and keyboard along with UPS 600VA and 3 years Warranty
Future Upgradability	The same microscope frame must be upgrade to 50 watt mercury burner with three position fluorescence attachment / Side by side discussion tube/ pentahead observation tube/ same frame must be upgradable for polarizing attachment.
Certification	ISO/CE Certified for european market
Term and conditions	<ul style="list-style-type: none"> • Microscope, camera and software must be from same manufacturer for better compatibility • The suppliers should encase brochure of the product offered and One set of operating manual and service manual (in English) should be provided with the instrument. • The quote should also include the list of laboratories, preferably government institutions to whom similar units were supplied along with the date of supply. • They should also enclose performance certificate, if any, from the clients already using the machines. • The supplier should demonstrate the proper operation of the equipment upon installation and provide proper training (at least twice in first year of operation) for operation and maintenance of the equipment. • Service Centre / technical support must be available within India. • The vendor should be able to provide 2 years instrument warranty from the date of supply and specify the charges for extended warranty.

Note: Quote must have a compliance report on all the above points.