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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
No.C-1511.....

दिनांक
Dated

17.03.2016

Convener
BSIP Web Site Committee

Dear Sir,

We are in need of a 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 Compound Microscope” latest by April 08, 2016

Yours sincerely,

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

Technical specification for Compound Microscope with DIC and high resolution digital camera

Stand: Upright Microscope Stand for transmitted light brightfield, darkfield, polarization and DIC with inbuilt LED 10W 100v halogen bulb illumination for constant color temperature, with height-adjustable focus knobs and centrable condenser holder for vertical adjustment.

Nosepiece: Objective nose-piece for 7 objectives.

Contrast methods: Transmitted light Brightfield, darkfield, polarization and DIC (for all objectives above 20x).

Phototube: Phototube with beam splitter positions: 0/100%, 100/0% and field of view up to 25, port for one camera attachment. Image should not be reverse in eyepieces.

Eyepiece set: 10x with 25 mm or more field of view.

Objective set : Plan Achromatic objective set 5x/0.12, 10x/0.25, 20x/0.40, 40x/0.65, 63x/0.80, 100x oil/1.25 and suitable objective marker, Immersion oil 20 ml, all objectives except 5x and 10x should work with DIC.

Condenser: Colour coded Universal condenser for adaptation BF, DF, PH, Pol & DIC.

Filters: Day-light and Panchromatic green filter.

Stage: X-Y stage with ceramic surface with slide holder

Imaging Device: Full HD digital color camera 10 Mpixels (3648×2736), speed 30fps, C-Mount adapter 0.55x along with data acquisition device.

Imaging software: Software for extended depth of focus so that a single in-focus can be created and software should be capable in Measurement of area, lines, distances, angles, rectangles, count points. Automatic thresholding should give binary images that may be processed by amendment, segmentation and manual editing operations. Graphic generation of grids and spokes extends the capability. A rich set of measurements should include- measurement of multiple particle parameters, Colour, Grey level and Densitometry measurements, Field and Feature measurements, User defined feature expressions with results given in histogram, scatter gram and statistical formats