

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW

Telegram: PALAEOBOTANY
Telephone : 0522-2742920
FAX:0522-2740485,2740098

53,University Road
Lucknow 226 007,UP

No.BSIP/Sponsored Project/2016-17/C-1223 **SPEED POST**

Dated: 07.03.2017

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✓ BSIP Web Site Committee

**Subject: Transmitted light Stereo Zoom microscope with accessories
(Specification attached)**

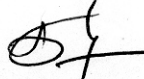
Dear Sirs,

This Institute intends to purchase item mentioned above. Sealed quotations are invited so as to reach this office on or before **5.00 pm on 23.3.2017** duly superscribed by "**Quotatiion for Transmitted light Stereo Zoom microscope with accesories**" due to open in presence of vendors on the date to be notified.

While submitting quotation please note that:

1. The material may either of indigenous manufacturer or of foreign make, available from ready stock. Any offer to supply on forward Delivery Basis under suppliers own quota license will also be considered.
2. The price quoted should be F.O.R.Destination.
3. Your rates should include packing, insurance and forwarding charges.
4. The rates of Sales Tax should be clearly indicated wherever chargeable. The tendered should also indicate Central/Sales Tax Registration Number and date in the quotation.
5. Specific mention should be made whether the offer is for supplies available ex-stock. In case the officer is on Forward Delivery basis, firm delivery period must be indicated.
The cover should be sealed and superscribed "**Transmitted light Stereo Zoom microscope with accesories**" must be written on envelope. The quotations not complying the procedure will be rejected.
6. Payments will be made by crossed cheque on the Indian Overseas Bank, Lucknow only after receipt and acceptance of supply and installation/if required satisfactory.
7. The acceptance of the quotation will rest with the Director who does not bind himself to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotation received without assigning any reason.
8. The quotations are liable to be cancelled if any of the above mentioned conditions are not complied with.

Yours faithfully,


(Sanjay Kumar)
Registrar

SPECIFICATION FOR THE TRANSMITTED LIGHT STEREO ZOOM MICROSCOPE WITH ACCESSORIES

The transmitted light zoom ratio of the microscope should be 20:1 or more, optics should be fully apochromatic with antifungal coating. 8x to 160x with combination of 1x objective and 10x eyepiece and max. Magnification should be 900x with various combination. Maximum magnification 1280x and maximum numerical aperture 0.35. Zoom should be encoded. Should be option for continuous zoom and Click stop zoom settings for Reproducible magnification to make sure that sample is always inspected at the same position. Wide field eye piece pair 10x with field of view 23 mm or more. Fully apochromatic 1x objective with working distance of 61 mm or more. Maximum Resolution should be more than 525lp/mm with 1x objective and 10x eyepiece. System should be fully controllable via PC for encoded functions like zoom and iris diaphragm. Trinocular tube with observation angle 30°, Interpupillary distance 51-77 mm with fixed beam splitter 50% eyepieces and 50% camera. Coarse and fine focus drive with adjustable tension with Zoom position Click Stops for repeatable task. Built-in Iris diaphragm should be encoded so that depth of field can be increased at each specific magnification without a reduction in field size.

- i. Stand with transmitted Light Base with bightfield and one sided darkfield with built-in 20w halogen illumination. Should have transparent glass stage plate. Column height should be more than 400mm.
- ii. Dual fiber optic goose neck with integrated control for incident light with independent power supply.

Gooseneck should be 450 mm or longer in length. Gooseneck Should be fitted with stand. Dust is required. Fire-wire based digital color camera with 3.1 Mpixels (2048x1536 pixel), fast live image 1024x768 with 22 fps, Pixel size 3.2 μ m x 3.2 μ m, C-Mount adapter 0.55x Shading correction should be applicable to live and captured images. Power supply should be 220 \pm 20 volts, 50-60Hz, single phase AC supply. Suitable branded computer with operating system windows 7 professional or later, with 21'' or larger screen, i7 or better processor, 16 gb ram, 2 TB hard drive, NVidia 2 gb graphic card. Complete hardware, software, dust cover and Digital Camera should be from single manufacturer only and no hybrid system components are allowed in order to achieve maximum efficiency with Reproducibility & Repeatability.

