

Indian Institute of Technology Kanpur

CENTRE FOR NANOSCIENCES

Tender No: **CNS/2017-18/11**

Tender date: **20.02.18**

Tender Closing Date: **13.03.18**

Centre for Nanosciences, IIT Kanpur invites sealed quotations in two bid system for the purchase of Inverted Optical and Fluorescence Microscope with accessories. The instrument must have below mentioned specifications:

Inverted Optical and Fluorescence Microscope with accessories

- Microscope body / Optical system: Inverted Microscope for Bright field & Phase contrast with LED illumination and Infinity corrected Optical system.
- Automatic adjustment of illumination to the contrast methods, Auto-off function, LED with service life of 50,000 hours, constant color temp
- Auto adjustment of intensity changing from Bright field to Phase contrast
- Plan Achromat Objectives set optimized for Confocal Application. - 40x/0.75 & 60x or 63x/1.40 (variable NA) Oil and DIC prism set for all objectives
- Additional long working distance & Phase objectives,
- Plan Achromat 4x/0.10, WD: 18.0 mm or better
- Plan Achromat 10x/0.20 PH1, WD: 7.8 mm or better
- Plan Achromat 20x/0.30 PH1, WD: 3.0 mm or better
- Plan Achromat 40x/0.50 PH1, WD: 2.0 mm or better
- Plan Fluor 20X/0.4 PH1, WD: 6.0 mm or better
- Plan Fluor 10x/0.30 for Bright field, DIC, Fluorescence and Confocal.
- All the Phase objectives should have common PH1 phase ring so that no change of phase ring is required in condenser while changing objective.
- Eyepiece pair with focusing.
- Fluorescent narrow band filter cube- DAPI, FITC & RHOD
- Polarizer & Analyzer cube and DIC prism set for 10x, 40x & 60x / 63x.
- Antivibration table.
- Deconvolution Software with multiple algorithms inbuild and should generate automated PSF from images captured.
- XY Stage with sample holder for Slides, Petri dishes etc.,
- Dust cover for the microscope
- Optional – Should have camera port on back side of microscope
- Zoom optics of Stereo Zoom Microscope should be Achromatically corrected with 9:1 Zoom ratio and integrated camera.
- Magnification Range 6.1 to 55x with 1x Objective
- Max Resolution 200 L/P or more.
- Free Working Distance 122 mm or more with 1x Objective.
- High Object field diameter of 3.5cm or better at min zoom step with 1x Objective & 10 x Eyepiece.

- Microscope should be able to achieve unrestricted high resolution and high depth at the same time
- 360 degree boom stand medium for dissecting.
- LED Ring light for reflected light.
- Camera: High definition 10 MP Colour CMOS camera with memory card slot for direct image acquisition; Camera should have; HD live image for operation with or without computer, full HD movie clips recorded directly to the SD memory card, direct control of all camera parameters via remote control. (Camera & microscope should be from same manufacturer)

Your quote should mention/include the following:

Terms & Conditions:

Your quote should mention/include the following:

- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost for installation, warranty, AMC and required accessories
- Validity of the quote at least for 90 days.
- FOB (indicating port of shipment) and CIF (New Delhi) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at Kanpur.
- The quote should cover insurance for transport up to Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Payments terms: 100% after successful installation and commissioning.
- Technical literature to support your product (in technical bid).
- Users' list with contact address in technical bid.
- Concessional rate of GST (@5%) will be applicable with reference to Notification No. 45/2017- Central Tax (Rate) dated 14/11/2017 for Indian manufactures. We will provide relevant certificate for this purpose. On import items for research purpose presently the GST applicable is 0% (zero).
- Mere compliance is not sufficient; the technical details must be supported by detailed technical datasheets of the offered product(s)
- The Institute reserves the right of accepting and rejecting any quotations without assigning any reason.
- Kindly send technical and financial bid separately in sealed envelopes.

*Note: Only principal manufacturers or authorized representatives are requested to send the quote along with proper certificates. The envelope should be marked as "Quote for **Inverted Microscope Upgradable to confocal and Accessories**"*

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