Indian Institute of Technology - Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: BSBE/IG/NC/MD/01, dated: 01/10/2013

Sub.: ENQUIRY FOR THE INVERTED RESEARCH MICROSCOPE FOR BRIGHT FIELD, PHASE CONTRAST, FLUORESCENCE ATTACHMENT WITH DIGITAL IMAGING SYSTEM

Opening date: 01 October 2013 at 10:00 AM

Closing date: 05 October 2013 at 5:00 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for the Inverted research Microscope as per the specifications given in the next page. 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 and required accessories (see below).
- 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.
- Include proprietary item certificate if applicable.
- Technical literature to support your product (in technical bid).
- Users' list with contact address in technical bid.

The quote should reach the undersigned on or before 5 pm on or before 05 October 2013. The envelope should be marked as "***Quotation for Inverted research Microscope"*** & Enquiry No.

The Head
Department of Biological Sciences & Bioengineering
Indian Institute of Technology,
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SPECIFICATION FOR INVERTED RESEARCH MICROSCOPE FOR BRIGHT FIELD, PHASE CONTRAST, FLUORESCENCE ATTACHMENT WITH DIGITAL IMAGING SYSTEM

Microscope Stand:	Ergonomic Stand with integrated 12V 100W illumination with power supply, stabilized 100V … 240V. The frame should have side port for camera.
Observation Tube:	Siedentopf design Observation tube which should support F. No. 23 or higher
Nosepiece:	6 position nosepiece with slot for DIC.
Condenser:	Long Working Distance Condenser having N.A. 0.55 with minimum 06 positions for Bright field, Phase Contrast & DIC application (for future up gradation)
Eyepieces:	Paired Widefield Eyepieces of 10X with minimum field of view 23mm
Transmitted Illumination:	12V 100W Halogen Lamp
Objectives:	Plan Achromat Phase Objective of 10X (N.A. 0.25 or higher), Long working distance Plan Neoflaur Phase Objective 40X (N.A. 0.6 or higher) with correction ring. In optional quote for Plan Apochromat 20X/0.8 N.A, 63x/1.4 Objective
Mechanical Stage:	It should have a mechanical stage for X and Y movement of the specimen. It should have a universal holder to accept all Types of Specimen.
Fluorescence Attachment:	It should have a 6-position reflector turret (One should be able to Mount/ change / remove filter without using any Allen key) for mounting different Filter cubes. It should have a self-adjusting 100W Mercury illumination or its equivalent should be alignment free. It should have Apochromatic Fluorescence Beam path. Fluorescence Filters for DAPI,GFP and Rhodamine
Digital Camera:	Monochrome Cooled Digital Camera with 1.4 mega Pixel Resolution, 2/3” CCD Chip, Pixel size of 6.45 µm X 6.45 µm. It should have a fire wire interface. The camera should be capable of capturing week fluorescence also. The integration time of the camera should be from 1 ms to 60 s. Dynamic Range 2200:1
Software:	Image acquisition software with interactive measurement of intensity profiles, length, area, circle. Multichannel fluorescence Acquisition software module should be quoted as a standard Point wise technical compliance statement to be attached with documentary evidence like catalogue manual etc. All the information should be available in Company's original literature and website. Microscope, Camera and Software should be from a single company for better integration