

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

Enquiry Number: BSBE/IG/NC/AKT-1, dated: 12/09/2013

**Sub.: Inquiry for the High resolution trinocular microscope for bright field, POL, DIC & fluorescence with digital camera & software.**

Opening date: 13 September 2013 at 10:00 AM

Closing date: 20 September 2013 at 5:00 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for **High resolution trinocular microscope for bright field, POL, DIC & fluorescence with digital camera & software** 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.
- 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 20<sup>th</sup> September 2013. The envelope should be marked as "**High resolution trinocular microscope for bright field, POL, DIC & fluorescence with digital camera & software.**"

The Head

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Kanpur 208016 (UP)

For any query, contact Dr Ashwani Thakur BSBE Department, akthakur@iitk.ac.in

**High resolution trinocular microscope for bright field, POL, DIC & fluorescence with digital camera & software.**

**Specifications**

1. Basic stand with 12V100W stabilized power supply ( 90-250V ) with DIC-Fluorescence observation/imaging facility..
2. 5 function 3- steps focus drive for critical focus at high magnification.
3. X/Y drive knob attachable to left or right for operator convenience.
4. 6- positions nosepiece.
5. Universal condenser UCL.
6. Alignment free 120w Metal halide Fluorescence attachments with 2000h bulb lifetime & filter UV, Blue, Green (all narrow band) for selective fluorescence.
7. HC optical & mechanical system for synchronization of all parts to get maximum intensity both normal illumination as well as fluorescence in compare to traditional optical system
8. Eyepiece 10x/22mm FOV & Objectives PLAN 4x/5x,10x , Fluotar 40x DIC, 100x oil DIC.
9. High resolution cool colour digital scientific camera with 1.4 mp sensor, pixel size 6.45x6.45 micro meter, exposure time upto 600 sec or more, Electron full well capacity 16000 or more firewire cable, interface to produce 1:1 image on PC.
10. Camera with both monochrome imaging for fluorescence & colour imaging mode for normal observation.
11. Camera should have cooling on/off facility to increase life of CCD sensor.
12. Software for Measurements, Annotation, Micron bar.
13. Software for fluorescence multichannel image acquisition.
14. Trinocular observation tube with Vis/Phot. 100/0,50/50 & 0/100 light beam splitting facility to get more flexibility in normal observation using 50/50 & 0/100 for very low light fluorescence imaging.