

DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Dated: October 6, 2013

Notice Inviting Quotations

Quotations are invited for the purchase of an **inverted epi-fluorescence microscope with digital camera**. More details on the desired specifications are provided below.

Body of microscope:

1. Inverted microscope with infinity corrected optical system.
2. Stand should be of anti-rust material.
3. Viewing bodies: Siedentopf trinocular.
4. Eyepieces: wide field eyepiece WF 10x/22mm (or better) paired with eye guards; anti-fungus coating.
5. Nosepiece: Reverse angle nosepiece (ball bearing type) with rubber grip.
6. Condenser: Long working distance condenser NA 0.30 or better, suitable for Phase Contrast/BF with Phase Contrast Slider.
7. Focusing: Coaxial coarse and fine focusing mechanism. Fine focus graduation 2.0 μm or better.
8. Illumination: Transmitted illumination system should have 30 W or better halogen lamp with intensity control. The halogen lamp life should be at least 500 hours. A spare bulb should also be provided.
9. A movable mechanical X-Y stage should be provided which can travel at least 120mm x 80mm.
10. Holders for holding different types of samples should be provided.
11. Electrical: Universal power supply (110V-240V). Power supply should be UL, CE approved.
12. Objectives: Long Working Distance objectives suitable for bright field/Phase contrast/Fluorescence observation should be provided with the following magnifications: 4x, 10x, 20x, 40x.
13. Operation manual, allen wrench, dust cover, cleaning cloth, power cord, spare bulb and spare fuses should be provided.

Fluorescence attachment:

1. Detachable fluorescence attachment should be provided with two (2) or more position filter block, filter slider, and shutter.
2. The lamp housing should provide lamp centering, mirror centering, collector focusing, and mirror focus. Interlock switch and built in UV cut filter should be provided for safety.

3. A high pressure 50W/AC or better mercury bulb should be provided. A spare mercury lamp should also be provided.
4. Power supply for the lamp should have auto-ignition system and hour-counter for displaying the accumulated hours of operation.
5. Blue and green excitation filter cubes should be provided which are suitable for visualizing fluorescein and rhodamine-B dyes.

Digital camera:

1. 1/2” 3.0 Mega Pixel Color CMOS or CCD camera.
2. Camera should be capable of capturing images at 30 fps or higher frame rate for 640x480 image size.
3. Digital interfacing of the camera should be accomplished through USB. A USB cable (at least 3 ft long) should also be provided.
4. Image capture software compatible with windows should be provided along with camera.
5. Microscope camera and image analysis software should be from the same manufacturer or source.
6. A minimum warranty of one year for Microscope, Fluorescence Attachment, and Digital Camera from the date of installation is required.

Terms & Conditions

1. Technical and Commercial bids are required to be submitted in separate sealed envelopes. Both these envelopes can be enclosed in a single envelope which should be clearly labeled as **“Quotation for Inverted Epi-Fluorescence Microscope with Digital Camera”**.
2. Compliance chart conforming to the specifications as per the NIQ should be attached along with technical bid. A bid without the compliance chart shall be rejected (Note: The Compliance chart should match the specifications of the NIQ)
3. The Model number must be mentioned with the technical datasheet.
4. The bidder must be a reputed OEM or an authorized local agent.
5. List and addresses of organizations in India where similar equipment has been supplied should be provided.
6. If there is any Indian agent associated with the foreign supplier, then an appropriate “Letter of Authorization” certificate has to be provided with the quotation.
7. Validity of the quotation should be at least 120 days from the date of submission.
8. Quotation must indicate a delivery schedule, which in no case should exceed 8 weeks from the date of placement of order.
9. Please indicate the cost as FOB, IIT Delhi.

10. Payment will be made after satisfactory installation as per IIT norms.
11. Installation, commissioning and staff training expenses are to be borne by the supplier.
12. The Institute reserves the right to accept/reject any or all quotation without assigning any reason.
13. Taxes as applicable should be indicated clearly.
14. No advance payment will be possible.
15. Country of origin should be mentioned.

Sealed quotations should reach the undersigned on or before October 22, 2013 by 3:00 p.m.

Please quote best prices with appropriate discounts for academic institutions. The quotations can be sent to the undersigned:

Dr. Supreet Singh Bahga
Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110016