

**CENTRE FOR BIOMEDICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY-DELHI
HAUZ KHAS, NEW DELHI-110 016**

Dated: 05.01.2015

Notice Inviting Quotations

Sealed quotations in separate envelope of technical and commercial bid kept in one sealed outer envelope, are invited for **Research Fluorescent Inverted Microscope** as per specifications given below. Your sealed quotation should reach within 21 days from the date of advertisement to, **Dr. Neetu Singh, Block II-388, Centre for Biomedical Engineering, Indian Institute of Technology, Delhi (IIT Delhi), Hauz Khas, New Delhi-110016**. Your quotation must be super-scribed **“Research Fluorescent Inverted Microscope”**.

TECHNICAL SPECIFICATIONS

RESEARCH FLUORESCENT INVERTED MICROSCOPE

1. Microscope Frame: Inverted Frame with high static rigidity, waterproof construction to prevent penetration of spillage inside the frame. Transmitted light Intensity control, and light ON/OFF switch. Sextuple revolving nosepiece with **DIC up gradation possibility in future**. Focus adjustment 0.01micron or more step, Course focus limit and knob tension adjustment. Should have activated camera port either of side of microscope to mount camera and similar port should have facility for 3 way light distribution eyepiece: camera port 100:0 / 50:50 / 0:100. Frame should have built-in intermediate magnification changer of 1-2x magnification.

2. Multi-port design: Should have multi-port design and optical free space for attaching other attachment in future.

3. Transmitted light Illuminator: 100W transmitted light illumination pillar having tilt Mechanism, condenser holder, adjustable field iris. Diaphragm & with 4 filter holder. 12V 100W illumination unit with ON/OFF switch & intensity control.

4. Observation tube & Eyepieces: Binocular observation tube having Diopter adjustment, interpupillary distance adjustable 50-76mm, diopter adjustment function. 10X with F.O.V 22 or better eye pieces-2 nos.

5. Mechanical Stage: Attachable mechanical stage with flexible right-hand vertical low drive controls, including scales for 96 micro test plate, Terasaki-plate holder (72-well/60-well), Slide glass holder, Petri-dish holder (65mm dia. hole)

6. Condenser: Long working distance condenser NA/ 0.3, multi-position for BF, & Phase contrast.

7. Objectives: High performance and high N.A with extra-long working distance infinity corrected objectives suitable for bright field/phase contrast/fluorescence applications.

* Plan achromat objective 4X/0.1, WD 18.5

* Plan achromat phase contrast objective 10X/0.25, WD 10.6

* Long working distance achromat phase objective 20X/0.4, WD 3.2

* Long working distance plan fluor phase objective 40X/ N.A. 0.60 W.D. 2.7-4.0

* Long working distance plan fluor objective 100X/ N.A. 1.30

8. Fluorescence Attachment: 7-8 positions fluorescence illuminator turret with 100-130 Watts mercury (Hg) based light source. Filter cubes for DAPI, FITC, and TRITC should be offered.

9. Up-gradation: System should have free optical space to upgrade with TIRF and Confocal attachments.

Terms & Conditions:

1. The quotations must have validity of at least four months.
2. Sealed quotations should be in separate envelopes of technical and commercial bid kept in one sealed outer envelope.
3. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight and delivery charges.
4. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
5. Detailed Brochures should accompany the offer.
6. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
7. Two year comprehensive warranty.
8. Mode of payment as per institution rules
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same must be provided.
10. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.
11. Details of User List with phone number and email ID should be provided.