

## Department of Materials Science and Engineering

Date: 27/09/2016

Enquiry Number: IITK/MSE/VV/IM

We are interested to purchase inverted microscope for cell culture laboratory. The proposed machine should comply with or be better than each of the specifications mentioned in the Technical Specifications Section. Please carefully note and comply with the following instructions. If any of the instructions are not followed, the submitted bid will be disqualified.

1. Please submit your bids in two separate envelopes named “Technical Bid” and “Price bid”. The Technical bid should contain the detailed technical specifications of the proposed machine, photographs of the machine and other accessories offered. The Technical Bid should not contain any prices. The Price Bid should contain the technical specifications as well as prices in details.
2. The “Technical Bid” should contain one “Technical Compliance” statement, each page of which should have signature and seal of the prospective supplier. In this statement, each of the specifications mentioned in the Technical Specification should be re-written and the value (or range wherever applicable) offered in the proposed machine for the given specification should be specifically mentioned. This should be followed by stating whether the offered machine complies or does not comply with the concerned specification. If value offered by proposed machine for any of the asked specification is not specified or comply/does-not-comply for each specification not specified or any ambiguity is left in the specifications, the bid will be disqualified.
3. The prospective supplier should be either original manufacturer or 100% subsidiary or authorized agent of the original manufacturer of the offered machine. The Technical Bid should contain an original certificate obtained from the principal company to this effect.
4. The prospective supplier should have supplied the offered machine to at least 3 government or government-affiliated institutes, which should be either an IIT, IISc, NIT or a national laboratory like NML, NCL etc. The list of such personals having this machine and their contacts should be included in the Technical Bid.
5. Each of the envelopes should be appropriately marked as either “Technical Bid” or “Price Bid”. Enclose the two sealed envelopes in another bigger sealed envelope and send it to the address mentioned below.
6. Include proprietary item certificate if applicable
7. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%). Prices quoted should be FOB (indicating port of shipment) and CIF (New Delhi) values separately if requires import.
8. Institute is exempted from payment of Excise Duty under notification No. 10/97.
9. The bids should reach the undersigned before 5 pm on **12<sup>th</sup> October 2016**.

Dr. Vivek Verma  
Faculty Building Office FB 418  
Department of Materials Science and Engineering  
Indian Institute of Technology, Kanpur  
Uttar Pradesh 208016

## Technical specifications

1. Inverted Microscope with 6 positions Nosepiece **with 12mm** or more travel range, 6 positions Fluorescence turret for Bright-field /Phase/ DIC / Fluorescence methods.
2. Long working distance Plan objectives 4×, N PLAN 10× phase, N Plan L 40× CORR with Correction Collar (all Dry) fully DIC enabled.
3. Eyepiece 10×/22mm
4. System with LED light source for transmitted light with constant color corrected apochromatic Illumination pillar with light controlling facility by Stand. Along with 10 ms or faster shutter.
5. System should also include 7 positions or more condenser; for all transmitted contrast methods with necessary slits for DIC with working distance of minimum 23 mm or more with NA 0.5 or better
6. 100:20 Left side Light path for Camera with FOV 19 mm or more / Eyepiece. Main frame upgradable for Motorized 4 different Camera ports (Left / Right / Bottom & Trinocular).
7. 3 plate XY Manual stage with sample holder for Glass slides, Petri dishes.
8. With LED light source with min. 25000 hrs of life time. The unit should be controlled by same imaging software. Should accompany with control panel for changing the wavelength and controlling intensity. The wavelengths should be UV, Blue and GYR. Along with necessary pixel shift corrected filter cubes for DAPI, FITC & Rhodamine or similar wavelengths.
9. Narrow Band fluorescence filter cubes with Pixel shift correction for DAPI / FITC / TRITC
10. System should have facility to upgrade with laser safety device on site.
11. All components should be from single manufacturer including camera and software for better synchronized integration.
12. Other attachments:
  - A) Reflected light halogen 12V100W.
  - B) Mirror housing for halogen lamp house
  - C) Bright field reflector
  - D) N Plan 50× EPI objective
  - E) C-mount 0.63- 0.7× for existing Leica DRF450C fluorescence camera