

GLOBAL Tender Notification for the procurement of “Inverted Trinocular Epifluorescence Microscope with Imaging System” at the Indian Institute of Science, Bangalore

(This item has been exempted from GTE Approval)

(Last date of submission of tenders: 15-Dec-2023)

Dear Sir/Madam:

Date: 21st Nov. 2023

Please send your quotation valid for 90 days for the supply of equipment described below. Your quotation should clearly indicate the terms and conditions of the quotations, delivery, delivery schedule, entry tax, payment terms, warranty coverage etc. The tender should be submitted in two separate sealed envelopes – one containing the “Technical bid” and other containing the “Commercial bid”, both of which should be duly signed and must reach **the undersigned on or before 17:00 hours 15-Dec-2023.**

**The Chairman
Department of Biochemistry
Biological Sciences Building
Indian Institute of Science
Bangalore-560012
Karnataka, India**

Specifications:

A. Microscope body

1. Inverted motorized fluorescence microscope with manual scanning (X and Y) and automated axial drift correction (hardware) with intermediate magnification changer of 1x/1.5x or 2x built in the base of the microscope itself.
2. Motorized filter turret. Should be possible to accommodate two cameras to two output ports each with at least 20 mm FOV.
3. Manual XY-stage for lateral scanning of the sample.
4. Motorized Z focus in 10 nm steps or lower, equipped with focus knob with rotary encoder, escape (for anti-collision) and refocus mechanism
5. Laser safety interlock signal output

6. Continuous automated drift correction in IR range (LED or laser of 850 nm or longer wavelength), controllable both with the microscope control unit and remote control. Drift correction feedback frequency should be more than 100 Hz
7. Capable of upgradation to 4D fluorescence imaging-capable i.e. X, Y, Z, wavelength (λ), time lapse, and multi point imaging
8. CFI Apochromat high NA (1.49 or higher) objective for TIRF microscopy 100X oil immersion
9. Tiltable eyepiece tube and eyepieces
10. Motorized Light path distribution: 1) 100% Eyepiece, 2) 100% Left port, 3) 100% Right port, 4) Eyepiece 20%/left 80%.
11. Fluorescence filter cubes without filters and dichroic (8x)
12. Motorized epi-filter turret
13. Adapter for 35-mm dishes, multi-well dishes and slides
14. Microscope must be offered with its vinyl cover.
15. Microscope should have Dia LED illumination
16. Microscope must support Total Internal Reflection system and multi-color LED for fluorescence illumination.
17. All the cabling and controls required to integrate all the parts and operate from the controlling computer.

B. Detector

1. Back-illuminated sCMOS camera
2. 6.5 μm x 6.5 μm pixel size, 2304x2304 active pixels, image area of 13.3x13.3mm, read noise <0.7 electron RMS or better capability to read in 11/12/16 bit, full well capacity 15000 electrons or better, full frame rate of 89 fps, QE>95%, optionally Camera should also be able to be connected to a water chiller for noise free operation
3. Two C-mount adapters
4. All the cabling and controls required to integrate, align and operate from the controlling computer

C. Training and Warranty

1. On-site installation and training
2. 5 years complete system warranty

The above-mentioned technical specifications are highly desirable. However, lower technical specifications may be considered if the above-mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into considerations its financial constraints and technical preferences.

Terms and Conditions:

1. The quotations should be submitted in two bids system; i.e., technical bid, and commercial bid.

a. The technical bid must include all details of technical specifications of the instrument along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.

b. The commercial bid must include the price of the instrument in Indian/Foreign currency indicating break up of:

I. For goods:

i. Price (CIF, Bangalore). Applicable Custom Duty will be borne by the Institute.

ii. Installation, commissioning and training charges, including any incidental expenses, if any

iii. Agency commission charges, if any

iv. Provide certificates for country origin of manufacturing for each line item

II. Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (fixed and ready to use) in our facility

c. Both the Technical and Commercial bid should be put in separate sealed envelopes, and put together in another cover stating “Inverted Trinocular Epifluorescence Microscope with Imaging System” and should reach us on or before 17:00 hours 11-Dec-2023

2. The vendor should have a good track record of having previously supplied Inverted Trinocular Epifluorescence Microscope with Imaging System in India or abroad (please furnish details)

3. The vendor should have qualified technical service personnel based in Bangalore capable of servicing the equipment

4. The payment will be done upon delivery of the goods against purchase order

5. The lead time for the delivery of the equipment should not be more than three months from the date of receipt of purchase order or two months from the date of receipt of purchase order (whichever is earlier)
6. The validity period of the quotation should be 90 days
7. Import code of the items should be indicated
8. If the goods are found to be defective, they have to be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended
9. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time period to award of construct without thereby incurring any liability of the affected bidder or bidders