

Indian Institute of Technology Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: BSBE/IITK/AK/2017-2018/NC-04

Dated: 08-03-2018

Sub.: Inquiry for the supply of: “**Confocal Fluorescence Microscope**”

Opening date: March 08, 2018 at 10:00 AM

Closing date: March 17, 2018 at 5:00 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for the above-mentioned laboratory products 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, AMC 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.
- Payments terms: 100% after successful installation and commissioning.
- Technical literature to support your product (in technical bid).
- Users’ list with contact address in technical bid.
- Concessional rate of GST (@5%) will be applicable with reference to Notification No. 45/2017- Central Tax (Rate) dated 14/11/2017 for Indian manufactures. We will provide relevant certificate for this purpose. On import items for research purpose presently the GST applicable is 0% (zero).
- Mere compliance is not sufficient, the technical details must be supported by detailed technical datasheets of the offered product(s)
- The Institute reserves the right of accepting and rejecting any quotations without assigning any reason.

Note: Only principal manufacturers or authorized representatives are requested to send the quote along with proper certificates. The envelope should be marked as “Quote for Confocal Fluorescence Microscope”

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SPECIFICATIONS

SPECTRAL CONFOCAL FLUORESCENCE MICROSCOPE

1. The system should be state of the art completely spectral confocal and have Filter free detection technology for fixed & Live Cell imaging.
2. High transmission efficiency optics and filter free detection spectral detection system with prism/grating based spectral dispersion. Spectral tuning of 1 nm with spectral resolution of minimum 5 nm and detection range of 430 nm to 730 nm. System should be able to image cross talk free real time spectral imaging without any algorithm.
3. Scan head with prism/32 channel grating based spectral imaging capability in confocal mode. Computer controlled continuously variable single pin hole system. System should possess high efficient dichroic beam splitter for lasers with recycled grating/Prism and Spectral PMT. Should be able to acquire min 5 channels or more sequentially in spectral. It should be completely filter free at detection part for high efficiency.
4. All the laser should be controlled through AOTF for laser attenuation and switching in synchronization with scanner.
5. Solid state Lasers of 405nm (25 mW), 488 nm (10 mW), 532 nm (10mW) and 633/635 nm (18mW).
6. X-Y stage with Universal sample holder s for slides, 35/60 mm Petri dish and multiwell plates.
7. Compatible objectives for confocal microscopy configuration.
8. High power LED illumination for transmitted light and 120W /130 W metal halide illumination (life time 2000 hrs or better) for Fluorescence.
9. The Galvo / Piezo Z-stage for fast XZ and XYZ scanning with z step size of 10nm.
10. Onstage CO₂ incubator for live cell imaging.
11. Computer workstation with Windows 7 professional (64 bit), Intel xeon E5 processor 3 GHz or better, minimum 8 GB DDR3 RAM, NVIDIA Quadro graphics card with min 1 GB RAM, 2 TB SATA HDD and 19’’ monitor or better.
12. At least 3-year service warranty for microscope parts and labor.

ADDITIONAL REQUIREMENTS

13. An appropriate UPS (3KVA or above) to give a backup of the entire system for at least 30 minutes.
14. The supplier should mention the after sales/service/application support capabilities
15. All specifications to be supported by documentary proof from principal
16. The principal has to demonstrate and prove experimentally the technical specifications asked.

OPTIONAL

17. Please also quote the financial involvement for 3 years on site Annual Maintenance Contract (AMC) after normal warranty separately
18. Quote for additional workstation for offline analysis

INSTALLATION, COMMISSIONING AND APPLICATION TRAINING

19. The part number of each part should be indicated along with the page number in the catalog. The bidders should clearly specify the after sales/service/application support capabilities

20. Provide all information as regards preinstallation requirements (i.e. room, environment) for system installation.
21. Provide a detailed list of users of the system in India/abroad with contact details
22. Free of cost at the site for minimum 10 working days for a group of students and staff from operating the instrument, data collection and detail data analysis at our laboratory
23. Future support as and when required must be provided at our institute
24. Demonstration of the claimed parameters like resolution etc. should be done on a standard sample
25. All the necessary items required to install the above system, other than power and water supply, should be included in the offer. Supply of all the relevant manuals and documents in printed format