

**Indian Institute of Technology Kanpur
Department of Biological Sciences and Bioengineering**

Enquiry for “Light source for multiphoton microscope”

Enquiry No.: IITK/BSBE/NG/2018/LSMM

Enquiry Date: 09/01/2018

Closing Date: 29/01/2018 at 5:00 pm

Sealed quotes (technical bid and price bid separately sealed) are invited as per the specifications and terms and conditions listed below.

A tunable femtosecond pulsed Ti:S laser suitable for multiphoton microscopy, with following specifications:

- Tuning range : 680-1080 nm or more
- Average Power at peak : 3W or better
- Other powers : 500mW@680nm , 180mW@1080nm
- Pulse width: no more than 140fs @ peak
- Repetition rate : 80 MHz
- Noise : <0.15 %
- Output power stability : <±0.5 % or better
- Built-in dispersion compensation: 0 to -22000fs² @ 800nm or better
- The laser system must be able to reduce the dispersion compensation to zero at all wavelengths in order to accommodate any current or future experiments.
- Tuning speed: 40nm/sec or better
- Astigmatism: <10%
- Operating voltage : 220 VAC, 50Hz
- Integrated onboard spectrometer capable of monitoring both wavelength and bandwidth of the laser. Spectrometer to be easily addressable, for example via USB.
- System should include power supply, chiller and dry air purge unit
- System should be user controllable either via RS232 or via the panel interface located on the power supply
- System should be stable between 15C and 28C of operating temperature
- Suitable power meter should be included in the system without additional charge
- The system should satisfy international standards for superior product quality and reliability
- Full system warranty for 3 years from the date of installation should be supplied without additional charge. If any part or system needs to be sent to another country for repair, the warranty should provide free repair and cover at least one side international shipment and any custom duty and all other duties applicable in that country.

Terms and conditions:

1. No separate installation charges will be admissible. All required accessories must be included in the quote. The supplier should undertake to install and commission the system at purchaser's laboratory in the event of an order and demonstrate satisfactory performance. Installation and commissioning should be provided by the supplier or its Indian agent. The Indian agent should have well proven service capability on similar systems.
2. The manufacturer's specification sheets for the products **must be** enclosed (in English language). In the event of an order, supplier should undertake to supply all documents including complete system description, operation and service manuals, and full description of hardware and software used.
3. Supplier's Indian agent should have factory trained service Engineers with sufficient experience for after sales service. Manufacturer's Training Certificate Issued for the Supplier's Engineer must accompany the bid.
4. A list of references in India, where similar systems have been installed must be provided.

5. Include Authorization certificate from the principal if you are a local agent.
6. Ex-works (with port of shipment) and CIP (New Delhi) values should be quoted separately if import is required.
In case of CIP, the quote should cover insurance for transport up to Kanpur. For quotes in INR, the price quote should be for delivery at Kanpur.
7. Quotations should have a minimum validity of 3 months.
8. Maximum educational discount should be applied – these products will be used for research as well as to teach and train students.
9. The institute reserves the right of accepting and rejecting any quotation without assigning any reason.
10. The indenter reserves the right to cancel the tender without being answerable.
11. The envelope should be marked as ***“Quote for Light source for multiphoton microscope”***.
12. Quote should be made in two parts: Technical bid and Financial bid separately in sealed envelopes

Address quotations to

Dr. Nitin Gupta
Department of BSBE
Indian Institute of Technology, Kanpur
Kanpur, UP 208016, India