

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
**IIT Post office, Kanpur 208016, U.P**  
**Department of Physics**

**Enquiry no.: PHY/RV/EQP/DRD/2014/5**

**Enquiry date: 02/02/2015**

**Closing date: 09/03/2015 (extended)**

Sealed quotations should reach the undersigned latest by **12.00 noon on 09<sup>th</sup> March, 2015** for the following:

<b>Description</b>	<b>Quantity</b>
Fiber-coupled single-mode lasers	Minimum: one maximum: three at different wavelengths

The above-mentioned equipment should conform to the following specifications and a sheet showing the extent of compliance should be attached:

1. Complete, stand-alone, desk-top, fiber-coupled, laser system with integrated laser controller for current and temperature control. (Personal computer controlled units will not be accepted).
2. Digital display for power / temperature / current modulation frequency on the front-panel.
3. Required wavelength: one wavelength in the range of 532 nm, one wavelength in the range of 632 nm, one wavelength at 1480 nm.
4. Accuracy of center wavelength: +/- 0.5 nm
5. If the instrument is modular, with possibility to accommodate multiple laser modules, the cost of each add-on laser module should be specified separately.
6. Wavelength stability better than 0.5 nm (FBG stabilized) in 30 minutes.
7. In the absence of FBG, in-built isolator with rejection ratio better than 40 dB is required.
8. Single moded (TEM<sub>00</sub>) power output through a single mode fiber with appropriate cut-off wavelength.
9. Continuous wave power at output : 30 mW.
10. Power variation in steps of 0.1 mJ should be possible.
11. Possibility of current modulation (if available) from DC to 100 kHz, with modulation depths from 1% to 80% will be preferred.
12. Output connector: FC/APC or FC/PC (un-connectorized version will be rejected).
13. Power cords suitable for use in India.
14. Instruction manual with clear instructions in English and trouble-shooting tips.
15. The cost towards on-site installation may be indicated. Installation will not be required for independent plug-and-play systems at different wavelengths.

Any additional accessory required for operation may be indicated. The supplier should be willing to supply complete test report while shipping the item, including the wavelength shift with temperature, long and short-term power stability and L-I curves.

**Terms and conditions:**

Quotations should have a validity of a minimum of 60 days.

The equipment should be provided with a warranty of 1 to 3 years. Any pricing towards extended warranty should be clearly mentioned.

Quotations are required in duplicate in a sealed envelope with enquiry number mentioned on the envelope. Technical specifications along with the extent of compliance should be in a separate envelope with proper labels on the envelopes. Suppliers may be invited to make a technical presentation at IIT Kanpur if required.

Quotations that do not provide a compliance sheet will be rejected.

The delivery period should be specifically stated.

For suppliers from outside India, the rate offered should be FOB (specify city) or FCA terms.

IIT Kanpur has its own freight forwarder for shipping from outside India.

IIT Kanpur is exempted from payment of Excise Duty under notification no.10/97

IIT Kanpur is entitled to avail concession rate of sales tax as admissible under Sub-sec 5 of Sec 8 C.S.T Act 1956 applicable to Educational/Research institution in inter-state purchase for suppliers from within India.

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