

**Department of Optoelectronics, University of Kerala, Kariavattom,  
Thiruvananthapuram, Kerala, India – 695581, Ph: 91 471 2308167**

**Quotation Notice**

OPTO/P-02/2020-21

Quotations are invited for the purchase of the following item in the Department

**Item: 405nm Temperature Stabilized Diode Laser with Software Control**

**Specifications**

- Wavelength (nm) : 405 ± 5
- Power Output (mW) : 100
- Output power : Variable from 10 to 100%
- Spatial Mode : TEM<sub>00</sub>
- Beam diameter : ~1.4 mm
- Beam divergence : ~0.5 mrad
- M<sup>2</sup> (typical) : < 1.25
- Beam Circularity : > 90%
- Beam Centration (mm) : < 0.5
- Beam Alignment (mrad) : < 5
- Pointing Stability (μrad/°C) : < 5
- Power Stability (over 24 hours) : < 0.5%
- Polarization Orientation : Vertical ±2°
- Polarization Extinction Ratio : >100:1
- RMS Noise (10Hz to 10MHz) : <0.1%
- Digital Modulation : 200MHz
- Digital Rise Time : < 2nsec
- Modulation Depth : infinity (full off)
- Analog Modulation : 500kHz
- Analog Rise Time : < 0.7 μs
- Input Power (Head) : 12V DC, 1.5A (max)
- Input Power (Control Box) : 230 VAC, 50Hz
- Storage Temperature : -10°C to +60°C
- Operating Temperature : +10°C to +45°C
- Communication : Mini-USB and RS-232
- CDRH Class : Class IIb
- Operation control : By software, system should be operated via software and should be able to control output power, and should be able to monitor internal temperature and diode current, running hours etc.
- Warranty : 1 year from the date of installation

Supplier should have supplied minimum 10 similar lasers supplied in last 5 year in India, details of the users should be indicated in the bid

The price may clearly indicate installation, applicable tax, packing, forwarding and handling charges separately. **Please quote the rate in INR only and University can issue essentiality and DSIR certificate for the purchase @ 5% GST.**

The firms wish to supply the item are requested to submit the quotation in sealed cover to the undersigned not later than 4:30pm on 04.01.2021. Quotations will be opened at 10:30am on next working day (05.01.2021) in the presence of the suppliers or their authorized agents.

16.12.2020



*Professor & Head*  
**Professor & Head**  
University of Kerala, Kariavattom P.O  
Thiruvananthapuram-695581