

Physics Department
Indian Institute of Technology Delhi

Notice for inviting quotations

Dt: 06-02-2012

Ref: PHYS/UFO/05

Sub: Purchase of low-power lasers

Please send your quotation for purchase of above said item(s) as per specifications given below. Your quotations should reach latest by **5 PM on 29-02-2012**. Quotations are solicited only for items manufactured by reputed company with proven past record of sales, supply and after-sale service.

| Sr. No. | Laser | Specifications | Qty |
|---------|--|--|-----|
| 1 | 410nm diode laser 100mW or above | 410±5nm or less, CW, Single mode/TEM ₀₀ , beam divergence= <1.5mrad; power stability ≤5%; Warmup-time= ≤10 min; beam size=≤4mm Operating temperature 10-35C TTL modulation>5KHz Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Expected life time> 5000Hrs Warranty= min. 1 year | 1 |
| 2 | 532nm DPSS laser 1,000mW or above | 532±5nm or less, CW, Single mode/TEM ₀₀ , beam divergence= <1.5mrad; power stability <5%; Warmup-time= <10 min; beam size=≤4mm Operating temperature 10-35C TTL modulation>5KHz Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Expected life time> 5000Hrs Warranty= min. 1 year | 1 |
| 3 | 808nm diode laser 3, 000mW or above | 532±5nm or less, CW, Multi/Single mode, beam divergence= <1.5mrad; power stability <5%; Warmup-time= <10 min; beam size=≤5mmx8mm Operating temperature 10-35C TTL modulation>5KHz Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) | 1 |

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| | | Expected life time> 5000Hrs Warranty= min. 1 year | |
| 4 | 785nm diode laser 150mW or above | 785±5nm or less, CW, Multi/Single mode, beam divergence= <2mrad; power stability <5%; Warmup-time= <10 min; beam size=<5mmx8mm Operating temperature 10-35C TTL modulation>5KHz Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Expected life time> 5000Hrs Warranty= min. 1 year | 1 |
| 5 | 980nm diode laser 3,000mW or above | 980±5nm or less, CW, Single mode/TEM ₀₀ , beam divergence= <3mrad; power stability <5%; Warmup-time= <10 min; beam size=<5mmx8mm Operating temperature 10-35C TTL modulation>5KHz Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Expected life time> 5000Hrs Warranty= min. 1 year | 1 |
| 6. | He-Ne laser module- randomly polarised | CW, randomly polarised; Output power=≥5 mW, Wavelength= 632.8 nm; beam divergence= <2mrad; Beam size=<1mm Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Life time= >15,000Hrs; Warranty= 1Yr or more | 1 |
| 7. | He-Ne laser module- Linearly polarised | CW, Linear polarised (>500:1); Output power=≥5 mW, Wavelength= 632.8 nm; beam divergence= <2mrad; Beam size=<1mm Suitable power supply (Input voltage= 115 / 230 VAC 50 / 60 Hz (Typical)) Life time= >15,000Hrs; Warranty= 1Yr or more | 1 |
| 8. | General purpose compact Nitrogen Laser | Laser type =General purpose compact Nitrogen Laser Wavelength =337nm Spectral bandwidth=≤ 0.1nm Mode of operation=Pulsed Out put pulse energy=≥170μJ Pulse width (FWHM)= <4ns Energy stability=≤ 3% Std.Dev (at 10Hz) Repetition rate=1 to 20Hz (variable) Beam size =≤ 3mm ² (circular) or ≤ 3x7mm (rectangle) Operating temperature=10-350 C Power Requirement=24VDC, ≥1.5A Life time= 500 hrs or more (with tube replacement details) Warranty= 1 Yr or more | 1 |

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. Technical requirements

- 1) The quotation must contain the following details, otherwise quotation cannot be considered.
 - a. The **technical** bid **must** contain all the required technical specifications.
 - b. Along with the technical bid, please enclose support documents related to previous sale of the above items(s) within India.
 - c. If the items are of proprietary nature, please provide proprietary certificate from the manufacturer.
 - d. All INDIAN agents must provide agent certificate, IEC and central sales tax certificate.

- 2. DELIVERY:** The rates quoted must be for FOB Delhi (Air Freight) (if required)
- 3. TERMS OF PAYMENT:** **100% post-payment (wire transfer/LC) on delivery and satisfactory installation**
- 4. INSTITUTE'S RIGHTS :** IIT Delhi reserves the rights of acceptance or rejection of any or all quotations.
- 5. VALIDITY OF QUOTATIONS:** Quotations should be valid at least for a period of 3 months.
- 6. SUBMISSION OF QUOTATIONS:** **Both Technical and price bids are to be quoted separately in separate sealed covers. Both these bids** should be sent in a sealed cover marked at the top SUBJECT AND DUE DATE

29-02-2012 by 5PM

Quotations should be sent, on or before due date to:

**Prof. Anurag Sharma, Professor
Department of Physics, IIT Delhi, Hauz Khas,
New Delhi 110 016, India.**

Prof. Anurag Sharma, Professor
Department of Physics, IIT Delhi.