

**Physics Department  
Indian Institute of Technology Delhi**

**Notice for inviting quotations**

Dt: 15-02-2012

Ref: PHYS/UFO/05

Sub: Purchase of low-power lasers : **typographical correction note**

This is with reference to the NIQ (**Ref: PHYS/UFO/05, Dt: 06-02-2012**), please note the following typographical correction.

In the technical specification of SrNo. 3 item “808nm diode laser 3, 000mW or above” the wavelength is written as “532±5nm or less”. It should be read as “808nm±5nm or less”. Rest of the details are same as given in the tender.

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

**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 <sub>00</sub> , 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 <sub>00</sub> , 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

		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 <sub>00</sub> , 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 <sup>2</sup> ( 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.**

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Department of Physics, IIT Delhi.