Physics Department
Indian Institute of Technology Delhi

Notice for inviting quotations

Dt: 22-02-2013

Sub: Deep UV laser and related accessories

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 **07-03-2013.** Quotations are solicited only for items manufactured by reputed company with proven past record of sales, supply and after-sale service.

Deep UV laser (Qnty : 01)

1. Laser wavelength = 248nm
2. Peak power = 250mW or above
3. Pulse= pulsed 1-20Hz or more (tunable)
4. Pulse width= in ns or µs range (synchronous internally or externally)
5. Beam size and divergence = typically 3mm, <5mrad
6. Size &weight = compact (10x10x70cm or below, <4kg)
7. Laser head cooling system= operating environment compatibility between -100 to 100 deg and internal cooling(as required)
8. Power requirements= ~10W or less, compatible to Indian condition (220VAC, 50Hz, ~500mA) (all power cables/adaptors must be provided)
9. Life time and warranty= min. of 1 year warranty
10. Required optics = Line rejection filter (1No.), fluorescence long pass filter (1No.), Deep UV lens (focal length 15cm, dia 12.5mm) (2No.s)

Accessory: cooling sample stage, compatible to the above (Qnty:01)

1. Sample area= ~22mm dia (with aperture size of more than 20 mm dia)with sample movement (XY) upto 15mm.
2. Measurement capability : Apart from optical (PL/Transmission/Reflection/imaging) measurements the sample stage should be compatible for Pressure, vacuum and electrical measurements
3. Upright Microscope (Olympus BX series) compatible with working distances of ~5mm from objective lens
4. Temperature range= ~200 to 400˚C (or above) (with an option of Liquid nitrogen attachment, to be quoted separately as optional)
5. Stability less than 0.1˚C and upto 150˚C/min heating ramp. (with appropriate temperature sensors)
6. Temperature controller, computer control (GPIB/USB/RS232) (all necessary cables, software, labview drivers has to be provided)

Optional accessories (to be quoted separately)

1. Liquid nitrogen dewar (2Lit or more) with standard ~40cm tubing to attach to the above sample stage and controller.
2. Water circulator pump to cool the sample stage, as required.

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. **Technical requirements**
   1) All items are to be in **metric scale** only.
   2) The **Technical bid** must contain the following details, otherwise quotation cannot be considered.
      a. all the required specifications, drawings, etc. are to be attached
      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

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

07-03-2013 by 5PM

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

Dr. G. Vijaya Prakash
Department of Physics, IIT Delhi, Hauz Khas,
New Delhi 110 016, India.

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Department of Physics, IIT Delhi.