

**DEPARTMENT OF APPLIED MECHANICS**  
**INDIAN INSTITUTE OF TECHNOLOGY, DELHI**  
**NOTICE INVITING QUOTATIONS**

7<sup>th</sup> Oct. 2011

**Subject: Purchase of "Double Pulse Laser for PIV System"**

Sealed quotations in two-bid (*Technical and Commercial in separate sealed envelopes*) are invited for the purchase of a "**Double Pulse Laser for PIV System**" as per the details given below, by **21<sup>st</sup> October 2011** to the undersigned. Your quotation should be superscribed "**Technical/Commercial Quotation for Double Pulse Laser for PIV System**".

A list of customers in India & Abroad must be enclosed with the technical bid. Further at least two *customer approval certificates* from customers (preferably in India) must be enclosed.

**SPECIFICATIONS**

**1) Nd:YAG Double Pulse Laser:**

- Pulse energy: 250mJ (@ 15+15 Hz) at wavelength 532nm
- Repetition rate : 15Hz (also quote separately for higher repetition rate upto 50Hz,)
- With RS232 interface and TTL triggering capabilities
- Cooling : Air-cooled system

**2) Light Sheet Optics:**

- For two different divergences:  $f = -10\text{mm}$ ,  $f = -20\text{mm}$ .
- Parallel sheet optics to be included for a sheet width of 100mm.

**3) Articulated-arm based delivery system with tripod.**

**4) On-site installation, system integration and testing.**

**5) Local expertise to repair the supplied laser on site is essential**

**6) Support for interfacing with existing PIV system supplied by *M/s LaVision GmbH in our laboratory.***

*(Existing 3-D FlowMaster stereoscopic PIV System consisting of: SPZ TRL 400 Nd:YAG double-cavity laser (pulse energy: 400 mJ at wavelength 532 nm repetition rate up to 15 Hz.), Make : Litron.)*

*Nival R. Cherman*

7) **Other Terms & Conditions:**

- **Validity of the quotation required :** 90 days
- **Warranty :** 01 year (*also quote separately for extended warranty for 2 years*)
- **Payment :** 100% on commissioning (preferred)
- Installation, commissioning and staff training expenses are to be borne by the supplier.
- **Please quote the price of the above item on FOB (*Freight on Board*) basis either in USD or EURO currency. IIT Delhi will bear the actual Freight charges as per IATA (*International Air Transport Association*) rate and additional insurance charges.**
- If the above laser is a proprietary item then a Proprietary Certificate should be enclosed.
- The bidder must be a reputed OEM or an authorized local agent.
- If there is any Indian agent associated with the foreign supplier, then an appropriate "Letter of Authorization" certificate has to be provided with the quotation.
- Further, if the Indian agent quotes for the above mentioned item on behalf of the foreign supplier, then the Indian agent should be enlisted with the Department of Expenditure, Ministry of Finance (Government of India). Copy of the supporting documents has to be enclosed with the quotation. Further, in the letter it must be clearly stated from the principles that the bidder is an authorized agent.
- **Rs. 1,00,000/-, in favour of Registrar, IIT Delhi, as earnest money, in the form of A/c Payee Demand Draft/ Fixed Deposit receipt/ Banker's Cheque or Bank Guarantee from any of the commercial banks in an acceptable form should accompany the technical bid.**
- Quotation for the laser system in a sealed cover should be submitted to "*Prof. Murali R. Cholemari, Applied Mechanics Department, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110 016*" by 21<sup>st</sup> Oct. 2011.
- **IIT reserves the right to reject any or all the quotations without assigning any reason.**

*Murali R. Cholemari*

Dr. Murali R. Cholemari