## **Request for quotation**

Enquiry number: IITK/AE/ACM/2013 LASER 1

**Enquiry date**: 10:00hrs, 24/09/2013 **Closing date**: 15:30hrs, 30/09/2013

**Subject**: Purchase of Dual Pulsed **NdYAG laser** system along with **articulated light arm** and **light sheet optics** for PIV application

Dear Sir/Madam.

Quotations for the above items are requested in sealed envelopes. Please send two separate sealed envelopes for the technical bid and price bid, respectively. The quotations should reach on or before 15:30hrs, 30<sup>th</sup> September, 2013 to the address given below.

## **Technical specifications for the Laser system:**

- Laser energy should be within 140mJ-200mJ per pulse
- Frequency range: 0-10/15Hz
- Beam diameter < 7 mm
- Pulse width <= 7 ns
- Beam divergence < 4 mrad
- Flash Lamp life time minimum 20 million shots
- Pulse to pulse energy stability < 2% RMS
- Water-cooled power supply (weight should not cross 50kg)
- Laser head: light weight (<25 Kg) and preferable size, length <600 mm, width<250 mm and height<110 mm
- Desirable operating temperature range: -5°C to 45°C
- It should be compatible for external TTL triggering from usual PIV synchronizers; it should be compatible with IDT and TSI-make PIV systems

**Light optics**: Continuous adjustable light sheet optics with desirable focal length between 0.3 m to 2 m with necessary mountings and mechanical arrangements to fit directly to the laser head.

**Laser light arm**: Light arm with 360° beam orientation, light weight and high energy coating to take care minimum of 200mJ/ pulse energy; minimum extendable length should be 1.5 m.

## Terms and conditions:

- Quotation should have a validity of minimum of 60 days
- The equipment should be provided with a warranty of at least two year
- The delivery time frame should be specifically indicated
- Ouotation should also include CIF New Delhi

**Note:** Since the equipments are going to be used for educational purpose, i.e. for teaching students and research purpose, maximum educational discounts should be applied.

## Address for the quotation:

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