

# Tender Notification for the procurement of "2-Axis Acousto Optic Deflector System"

*(Last Date for submission of tenders:7 October, 2016)*

Ref: PH/PRS/374/2016-17

28 September, 2016

Dear Sir/Madam,

Kindly send your best quotation for the following items with various accessories on C.I.P. Bangalore basis to the undersigned. Your quotation should clearly indicate the terms of delivery, delivery schedule, entry tax payment terms etc. The tender should be submitted in one sealed envelope- containing the technical specifications and the prices, which should reach the undersigned, duly signed on or before 17:00 Hrs, 7 October, 2016. Please use the enquiry number PH/PRS/374/2016-17 in your quotation.

Please enclose a compliance certificate along with the technical bid.

Specifications of the 2-Axis Acousto Optic Deflector for Optical Tweezer Set-Up:

TECHNICAL SPECIFICATIONS for Acousto Optic Deflector System		
Item	Quantity	Specifications
1 2-Axis Acousto-Optic Deflector (AOD)	1	Specification for each axis: Material: Tellurium Dioxide (4 degree slow shear mode) A/R Coating (R<0.25%/surface), Wavelength: 1064 nm Active Aperture: 4 x 4 mm or higher Center frequency: 27 MHz (1064 nm) Deflection bandwidth: 16 MHz or higher Time bandwidth product: 100 ( 4 mm beam diameter, 16 MHz BW) Access time: 1.6 µsec/mm beam diameter Beam separation: 45 mrad (1064 nm, 27 MHz) Total deflection angular range: 26.9 mrad (1064 nm, 16 MHz BW) Input/output optical polarization: Linear (perpendicular to base) Diffraction efficiency: 75% center/ 70 % edges RF drive power: 1 Watt (1064 nm) Input impedance: 50 ohms (nominal) Optical polarization: Linear Connector: SMA Size (less SMA): 1.5 H x 1.5 D x 2.35 W Inches or smaller

2	Dual RF amplifier to drive AOD	1	Number of RF power amplifiers: 2 Specifications for each amplifier: Frequency range: 10 – 90 MHz RF output power capability: 2 watts Power gain: 23 dB Harmonic distortion: -20 dBc or lower Input impedance/VSWR: 50 ohms/2:1 Input/Output connectors: BNC
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**The above mentioned technical specifications are highly desired. However, lower technical specifications may be considered if the above mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into consideration its financial constraints and technical preferences.**

Terms and conditions:

The vendor should have a good track record of having previously supplied similar equipment in India (please furnish the details).

The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).

The payment will be through wire transfer.

The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of purchase order.

The validity period of the quotation should be 90 days.

Yours Sincerely,

Dr. Prerna Sharma, Dept. of Physics, IISc.