

NOTICE INVITING QUOTATION

NIQ No.: IITD/PHYSICS/2012/SjC/CCD

DUE DATE: 13-03-2012

Sealed quotations along with complete details (brochures/web-site details) are invited for procuring the **CCD type Spectroscopy Camera** as per following desired specifications.

A	Item : CCD type Spectroscopy Camera	QTY.: ONE
	Parameter	Specification
1	Active Pixels	1024×255 or higher
2	Size of Pixel (W × H) in μm^2	26 × 26 or lower
3	Image area (in mm^2)	$\geq 26 \times 6$
4	Sensor type	Front Open electrode type
5	Wavelength Range	200nm to 1000 nm
6	Minimum measurable Dark Current ($\text{e}^-/\text{pixel}/\text{sec}$)	≤ 0.002
7	Minimum Possible Sensor Cooling ($^{\circ}\text{C}$) and type	<i>Capability of going down to -100°C or below with Thermoelectric Cooling, with provision for both options - Forced Air and Chilled Water as cooling medium.</i>
8	Register Well depth	10,00,000 e^- or higher
9	Minimum Read Noise capability	4 e^- or lower in 33-50 kHz range
10	Maximum Spectra Rate	> 85 per sec
11	Peak Quantum Efficiency (%)	$\geq 94\%$
12	Digitization (bit)	16 or higher
13	Linearity	$\geq 99\%$
14	Vertical Clock Speed	Selectable by software in 8-64 μsec range.
15	Window Type	Quartz coated with AR in 300-450 nm range
16	Measurement and Analysis Software	Labview Compatibility under 32 and 64 bit Windows (XP/vista/7) environment for data acquisition, display, processing and export features.
17	Spectrograph compatibility with regards to appropriate Flange for mounting CCD	CCD should be integrable at works without any extra cost with HJY make iHR550 f/6.4 model spectrometer with MSH-ICF internal CCD shutter and MSL-IAXM motorized Swing Away Mirror with slit width $10\mu\text{m}$ -2mm , triple grating turret, grating 1200lines/mm blazed at 300 nm.
18	Operating environment: temperature/humidity	10-30 $^{\circ}\text{C}$ / $\leq 70\%$
19	Operating range of Input Voltage/Frequency	110-240 V/ 50-55 Hz
20	Users in India	The vendor must have supplied the CCD to over at least 20 users in India . User list complete with contact information be provided.

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. **Delivery** The rates quoted must be for **FOB**
2. **Payment Terms** Acceptable payment terms are (i) Payment by Wire transfer within 30 days of installation, (ii) L/C, and (iii) Sight Draft. The payment terms, **preferably via L/C**, should be clearly indicated in the offer. The vender must provide complete details regarding the offered mode of payment. **Quotations offering the Advanced Payment terms will not be entertained.**
3. **Validity of quotations** Quotations will be considered **valid for 3 months** from the date of receipt unless otherwise stated.
4. **Correspondence** No correspondence regarding acceptance/rejection of a quotation will be entertained.
5. **Submission of quotations** Quotations should be sent in a sealed cover marked at the top with our **N.I.Q. REFERENCE AND DUE DATE FOR OPENING** as otherwise it will not be considered.
6. **Discount/ rebates** Special discount/rebate wherever admissible keeping in view that the supplies are being made for Educational purpose in respect of Public Institution of National importance may please be indicated.
7. **Warranty & delivery period** **Necessary information must be provided in respect of**
 - (a) Warranty (**preferably 3 years**) and
 - (b) Delivery period
8. **Others**
 1. The vendor must attach with the offer a **latest sole selling and servicing agency-ship certificate from OEM.**
 2. The **printed brochures and website link detailing the technical specifications of the items quoted MUST be provided** in the offer, **failing which the offer shall not be considered.**
9. **Rejection** Quotations not conforming to above terms and conditions will be rejected.
10. **Institute's rights** Institute reserves the rights of acceptance or rejection of any or all quotations without assigning any reason(s). The discretion for increasing or decreasing of the quantities demanded also vests with the Institute.

(Sujeet Chaudhary)
email: sujeetc@physics.iitd.ac.in,