



Department of Electrical Engineering, Indian Institute of Technology, Delhi

Hauz Khas, New-Delhi -110016, India

NIQ no. IITD/EE/PLN03-BEEN

Due Date: **27.3.2012, 5 PM**

Notice inviting quotations for a High Resolution Spectrometer

Sealed quotations are invited for a High Resolution Spectrometer that can have a spectral range between 200 nm and 1100 nm, a TE cooled detector, and a dynamic range of at least 25000:1 for a single acquisition. The purchase will be made through a two part bidding process. Technical and Financial bids have to be made separately. Complete technical information should be provided along with the Technical bid. Please refer to the page on Terms and Conditions for details on how and when to submit the Technical and Financial bids.

Required Specifications for the Spectrometer

1. The detector spectral range should be Between 200 nm and 1100 nm.
2. The dynamic range of the system should be at least 25000:1 for a single acquisition.
3. The TE cooling temperature of the detector should be -10 °C (for back illuminated CCDs) and -55 °C (for front illuminated CCDs).
4. The peak quantum efficiency should be at least 90%.
5. The highest optical resolution achieved should be at least 0.15 nm FWHM.
6. The spectrometer should be portable and it should weigh less than 3 Kgs.
7. The spectrometer should have a fiber optic connector.
8. The warranty for the spectrometer should be at least 1 year.

Asst. Prof. A. Dhawan
(Principal Investigator)

Terms and Conditions

1. Please submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as "Technical Bid" and "Financial Bid" respectively. Both the sealed envelopes should be sent in a single sealed envelope, clearly marked as "Quotations for a High Resolution Spectrometer". The quote should reach the following address on or before **27.03.2012, 5 PM:**

Dr. A. Dhawan
Block II, Room 216,
IIT Delhi, Hauz Khas,
New Delhi, 110016, India

2. Please quote prices at FOB New Delhi, inclusive of all taxes and duties.
3. Quote should be in Indian Rupees for Indian agents, or in foreign currency, for foreign agents, and needs to be valid for at least three months.
4. Attach all the technical literature and a list of similar installations done in India.
5. If the quote is being submitted by a representative of the manufacturer, a valid agency-ship or dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the manufacturers should be enclosed.
6. Complete set of manuals for the operation of the equipment should be given.
7. Clearly specify the installation requirements – such as space, power, frequency, environment etc.
8. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating, "Certified that _____ is a proprietary of M/s _____ and no other manufacturer makes this item."
9. Please attach a signed and stamped compliance chart for the specifications. The format of the compliance chart is attached to this document.
10. Please specify all of your terms and conditions clearly, including delivery period.
11. Preferred modes of payment for foreign agents are through letter of credit, or as payment on delivery. For Indian agents, typically payment is on delivery.
12. The Institute reserves the right to accept or reject any or all quotations without assigning any reasons thereof.

Asst. Prof. A. Dhawan
(Principal Investigator)

Compliance Chart

	Parameter	Requirement	Model Spec	Complies
1	Detector range	200 nm to 1100 nm		
2	Dynamic range	25000:1 for a single acquisition		
3	Highest Optical Resolution	0.15 nm FWHM		
4	Fiber optic connector	present		
5	TE Cooled Detector	-10 °C (for back illuminated CCDs) and -55 °C (for front illuminated CCDs)		
6	Peak quantum efficiency	> 90%		
7	Spectrometer weight	< 3 Kgs.		
8	Minimum warranty	1 year		