

## Mechanical Engineering Department, IIT Delhi

### Notice Inviting Quotations

Item: Infrared camera

Date: 18 January.2012

1. Sealed quotations are invited in Indian Rupees (INR) from experienced manufacturers or their authorized representatives for supply of one (01) branded Infrared Camera conforming to technical specifications and prescribed terms and conditions as given hereunder. Interested parties are required to submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes; these should be marked 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 Infrared Camera". The Quotations should be addressed to: Prof. S R Kale and submitted in the Department of Mechanical Engineering, IIT Delhi, Hauz Khas, New Delhi 110016 **latest by 5:00 PM on 10 February 2012.**

**2. Number of I R camera required: One (01)**

### **3. Technical Specifications**

1.	Temperature measuring range	25 – 1,200 °C (up to 2000 °C to be quoted separately as an option) Prices to be quoted separately for the two options
2.	Spectral range	Within 1.5 – 5.5 µm
3.	Resolution	320 x 256 Option: 640 x 512 Price of each option to be quoted separately
4.	Full Frame Rate	Programmable 1 Hz to 100 Hz
5.	Subwindowing	Defined size and location
6.	NETD	Less than 25 mK @ 25 °C
7.	Measurement accuracy	± 1°C or ± 1%
8.	Flame filters	Required
9.	Filter wheel	Required
10.	Digital interface	USB, to be supplied.
11.	Computer/hardware required for operation of the camera	Required, included in scope and to be supplied. Configuration details to be indicated.
12.	Software for operation of	Included in scope; to be supplied

	the camera	
13.	Tripod adapter	¼” photo thread, required
14.	Lens	Standard lens Option: Wide angle lens Prices to be quoted separately for the two options
15.	Power supply	220 V, 50 Hz
16.	Power cable	Included in scope; to be supplied
17.	Carrying case	Included in scope; to be supplied
18.	Data cable	Included in scope; to be supplied
19.	Calibration and testing	Calibration tests are required to NIST, or equivalent, traceability. Details to be provided.
20.	Warranty	Comprehensive on-site warranty for three (03) years from the date of delivery is required. Warranty for fourth year may be quoted as an option.

#### **4. Information to be provided with the technical bid**

- (a) Compliance table indicating adherence to each item of the technical specification (see Annexure A for format).
- (b) List of customers to whom similar equipment/models have been supplied in the past five years. Please provide separate lists for supplies in India and abroad. Copies of purchase order may also be attached.
- (c) List of certified service centre(s) for the quoted model(s) in India with supporting authorization letter.
- (d) Relevant product brochure/leaflet for the model quoted. Details of interface and other hardware (including PC/laptop, if any) that are integral part of the system should be provided.
- (e) In case the bidder is quoting separate models, these should be submitted in separate sealed covers (each containing the separate Technical and Financial Bid covers), clearly stating the model/make on the cover.
- (f) Details of testing and certification processes, including process for compliance to international standards, traceability to NIST or equivalent standards, periodic calibration requirements and procedure for the same.
- (g) Requirements for power supply and data transfer to a PC/laptop.
- (h) In case the items are proprietary products of the company, a proprietary certificate stating the same should be provided.
- (i) Items with '\*' in Item 5 below.

## **5. Terms and Conditions**

- (a) The validity of the quotation should be at least 3 months from the last date for submission of quotations (i.e. from 10 February 2012). A statement to this effect should be submitted. \*
- (b) The delivery schedule should be submitted. \*
- (c) Authorized agent/agency certificate if bidder is other than the manufacturer. \*
- (d) Each bidder must submit the NEFT mandate form for registering as a vendor at IIT Delhi.
- (e) Prices should be quoted separately for FOB / CIF IIT Delhi, Hauz Khas, New Delhi.
- (f) Prices quoted shall be firm for the bid validity period.
- (g) The price for options should be stated separately in the Financial Bid.
- (h) 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.
- (i) All applicable taxes should be clearly mentioned separately.

The institute/committee reserves the right to accept or reject any or all bid/quotations without assigning any reasons.

Professor S. R. Kale  
Department of Mechanical Engineering  
IIT Delhi, Hauz Khas  
New Delhi 110016

Annexure A

S. No.	Item	Specified technical requirement (Item 3 above)	Bidder's specification (To be filled by the bidder)

Date:

Authorized Signature: