

**Tender Notification for the procurement of a "Thermal Imaging Camera" at
IISc (Last Date for submission of tenders: 15 December, 2016)**

Dear Sir/Madam,

Kindly send your best quotation for the following item on C.I.P. Bangalore basis. Your quotation should clearly indicate the terms of delivery, delivery schedule, E.D., payment terms etc. The tender should be submitted in two separate sealed envelopes - one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before 17:00 hours 15th December, 2016.

Please enclose a compliance certificate along with the technical bid.

SL. NO	SPECIFICATION	Optional	YES/NO	YOUR SPECIFICATION	IF NO, DEVIATION
1	SPATIAL RESOLUTION ≤ 6 μm/pixel (with additional optical arrangement is fine)	15 μm/pixel only for the detector (i.e., without any optical attachment)			
2	SPATIAL RANGE ≥ 3 cm × 3 cm				
3	Minimum Working Distance ≥ 5 cm				
4	TEMPERATURE RESOLUTION ≤ 0.025 °C	≤ 0.01 °C			
5	TEMPERATURE RANGE 20 -1200 °C	0 - 1500 °C			

6	VIDEO CAPABILITIES <ul style="list-style-type: none"> • Frame Size: ≥ 3 cm × 3 cm • Frame Rate ≥100 Hz for ≤ 640 x 512 pixels 				
7	DETECTOR <ul style="list-style-type: none"> • Cool detector with narrow bandwidth (≤ 2 μm) • Suitable for moving objects 				
8	Optics and Microscope <ul style="list-style-type: none"> • Minimum Working Distance: ≥ 30 cm • Field of View: ≥ 3 cm × 3 cm • Resolution: ≤ 6 μm 				
9	Software: <ul style="list-style-type: none"> • Suitable GUI with image and video capturing capabilities 				
10	Spare parts kit for 2 years operation and consumables				
11	Service and training team should be in India	Bangalore / Southern India			

12	Warranty (parts and labor): 1 year	Additional 2 years			
13	Payment terms: 80 % with dispatch and 20 % after installation				

ADDITIONAL MANDATORY REQUIREMENTS:

- Camera should be calibrated from 0 °C to 1200 °C along with the optical accessories, with accuracy of ± 2% using suitable filters and continuously variable integration times and without using apertures.

YES NO If NO, Then Deviation

- The OEM should maintain black bodies to check calibration of the camera in India.

YES NO If NO, Then Deviation

ADDITIONAL OPTIONAL ITEMS:

- Sample holder platform for keeping 6 cm × 6 cm sample

ACCEPTANCE CRITERION:

- Demonstration of all aforementioned technical specifications on site after installation

TERMS & CONDITIONS

1. Two-bid system (separate technical and financial bids) in sealed tenders.
2. The technical bid must clearly specify the prescribed technical specifications without including the prices. Please provide in detail the specifications under the above subheads. Unique characteristics may be highlighted. Vendors who include price information in the technical bids will be automatically disqualified.
3. Technical bids will be opened first. IISc may seek clarifications after opening of technical bids, and may ask them to perform some example experiments on the sample given by IISc

to demonstrate the promised technical specifications. Vendors may be required to give presentations. There are several items that require information to be provided by the supplier. If information is not provided against any of these items, this will disqualify the supplier. After technical evaluation by a committee, vendors may be asked to re-quote in a specific format to facilitate comparison of prices. IISc also reserves the right to cancel the tender at any time without assigning any reason whatsoever.

4. Price bids of only technically qualified vendors will be considered and the vendors will be informed the day of opening the price bids.
5. The price bids must offer CIF Bangalore prices.
6. Prices to be quoted separately for baseline system and options. Prices should be quoted in adequate detail with relation to packing details to cover insurance compensation in case of damage to any specific modules
7. Indicate separately price of spares listed above in terms of unit cost. The price of these spares will be included in the price comparison. Any additional spares recommended by the company will be considered for ordering but not included in the comparison. The buyer reserves the right to make the final decision on ordered spares.
8. Indicate price for annual maintenance contract.
9. The payment will be by letter of credit: payable 80% on shipping, 20% after satisfactory installation and acceptance.
10. Indicate Delivery period
11. Order will be placed on lowest bid from technically qualified vendor
12. The tender documents can be sent at the following address:

Dr. Praveen Kumar
Assistant Professor
Department of Materials Engineering
Indian Institute of Science, Bangalore 560012
Karnataka (INDIA)