



Department of Electrical Engineering  
Indian Institute of Technology, Delhi  
Hauz Khas, New Delhi 110016

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Date: **February 16, 2024**

Quotations are invited for Development of MWIR infrared sensor core and interface with gimbal. The required specifications are given below. Complete technical information should be provided along with the Technical bid. Email bids are also acceptable. Please refer to the last page on Terms and Conditions for details on how and when to submit Technical and Financial bids.

The scope of the work include

1. Design of and development of uncooled MWIR sensor core. The form factor of the electronic boards are to be mutually agreed with the PI.
2. Complete characterization and documentation of the IPs.

**Required Specifications for the characterization boards for custom CMOS image sensors**

1. MWIR sensor resolution: 320 x 240
2. The sensor pixel pitch must be 15  $\mu\text{m}$  or lower.
3. The readout mode should be ITR, IWR
4. The overall power consumption should be less than 150 mW.
5. The total weight of the came core must be less than 0.5 kg.
6. Operating temperature : -40 to 125°C
7. stack of three boards. Power board, controller board and sensor board
8. Dimensions : All boards are to be designed with dimensions less than 10 mm x 10 mm
9. Optics: Custom optics
10. The IIR core should be integrated in a gimbal along with EO sensor

All other specifications are to be finalized in discussion with the PI.

## Terms and Conditions

1. The quote should reach the following address on or before **01.03.2024, 10 AM**.  
Dr. M. Sarkar  
Electrical Engineering Department  
Block II, Room 333  
IIT Delhi, Hauz Khas  
New Delhi, 110016
2. Please quote prices for FOB New Delhi, inclusive of all taxes and duties.
3. Quote should be in Indian Rupees for agents of Indian manufacturers, or in foreign currency, for agents of foreign manufacturers, 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. **The principal and the vendor, both, are not allowed to quote for the same product.**
6. Complete set of manuals for the operation of the equipment should be given.
7. Please specify all of your terms and conditions clearly, including delivery period.
8. Mode of payment for purchases in foreign currency are through irrevocable letter of credit, or through wire transfer on delivery. Only bank charges within India are payable by IIT Delhi, all bank charges outside India are the responsibility of the seller. For purchases in INR, payment is on delivery.
9. The Institute reserves the right to accept or reject any or all quotations without assigning any reasons thereof.
10. For queries please connect with [msarkar@iitd.ac.in](mailto:msarkar@iitd.ac.in) with CC to [coo@fitt-iitd.in](mailto:coo@fitt-iitd.in).