

**FOUNDATION FOR INNOVATION AND
TECHNOLOGY TRANSFER**

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

NIQ no. IITD/EE/FITT-BEEN/ARDE/00011

Due Date: **10.05.2021, 5 PM**

**Notice inviting quotations for
Optics development and characterization of developed quadrant detector**

Quotations are invited for Optics development and characterization of developed quadrant detector. 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.

Required Specifications for the Optics

1. Quantities: 10
2. FOV: 25°
3. Proportional FOV: > 12.5 °
4. Pointing error in complete linear FOV: > 0.1 ° in all conditions around true value
5. Operating temperature : -40 to 125°C

Required Specifications for the Optics

1. Test setup for characterization of the quadrant detector is to be developed. The test setup to include
 - The test bench with laser gun for position detection.
 - Spot calibration and correction
 - Optical enhancement of received optical power efficiency
 - integration of the developed quadrant detector with the gimbal system
 - Measurement and calibration of the integrated laser seeker module for position sensing

The optics must be compatible with Excelitas quadrant detector for detection range >3000 m. The vendor needs to work with the PI for the optics design, fabrication and characterization. Further the vendor in close association with the PI will work on the

efficient characterization and calibration of the developed quadrant detector.

Terms and Conditions

1. The quote should reach the following address on or before **10.05.2021, 5 PM.**
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 FITT, 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 FITT, 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.