



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

NIQ no. IITD/EE/FITT-BEEN/ARDE/0010

Due Date: 8.03.2021, 5 PM

**Notice inviting quotations for
Embedded electronics for quadrant detector**

Quotations are invited for Embedded electronics for 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.

The scope of the work include

1. Design of schematics and layout using Excelitas quadrant detector and custom integrated circuit designed and fabricated by IIT Delhi. 5 units in number. The vendor will work in close associate with the PI for the development of the interface electronics and its testing.
2. Characterization of the designed PCB to meet the specifications mentioned below

Required Specifications for the embedded electronics using quadrant detector

1. Input pulse width: 20 nm
2. Pulse rise time: 5 ns
3. Laser code resolution: 100 μ s
4. laser code range: 50-125 ms
5. Noise: $\pm 0.1^\circ$ RMS
6. Resolution: 0.01 $^\circ$
7. Nonlinearity < 2%
8. Communicaton protocol : RS-422
9. Max. Baud Rate: 460.8 kbps
10. Nominal Voltage: 28 \pm 4 V

11. Maximum current: < 400 mA
12. Operating temperature : -40 to 125°C

Terms and Conditions

1. The quote should reach the following address on or before **8.03.2021, 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 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.