

**Indian Institute of Technology, Kanpur
Department of Mechanical Engineering**

Tender Document

Sub: ENQUIRY LETTER FOR TORQUE AND SPEED SENSOR

Tender Enquiry Number: IITK/ME/PRJ/2022-23/07

Enquiry Date: 19.05.2022

Closing Date: 02.06.2022

Opening Date: 03.06.2022

Quotations are invited for the above-mentioned subject as per the technical specifications given below:

Specifications

1. A sensor for measuring the rotation rate of a shaft and the torque supplied through the shaft is required.
2. Torque range: 0-0.02 Nm,
3. Maximum speed: 15,000 rpm or better,
4. Maximum power: 25 W or higher,
5. Accuracy: 0.5% of the reading or better,
6. Desirable range of shaft diameter: 2 mm to 5 mm,
7. The sensor should not contribute to additional frictional torque on the shaft,
8. Output data rate: 3000 Hz or higher desirable,
9. Output data in the form of 0-10 V analog voltage signal that can be recorded by a data acquisition device (analog-to-digital converter) is desirable.
10. Operable in ambient temperature 15 °C to 50 °C.

Note: Quotations should reach the undersigned in sealed envelopes on or Before 5 Pm on 2nd June 2022.

Indentor Details:

**Dr. Pranav Joshi,
Assistant Professor,
Department of Mechanical Engineering
Indian Institute of Technology, Kanpur-208016
Contact: 0512 259 2023, Email: jpranavr@iitk.ac.in**

Terms and Conditions:

1. Maximum discount should be offered.
3. Quotations must be valid for minimum 90 days
4. Delivery period will be 6-8 weeks after receipt of purchase order.

5. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
6. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
7. Manufacturer authorization certificate from principal company is required if you are a local supplier
8. Include Preparatory Item Certificate if applicable.
9. The Institute reserves the right of accepting or rejecting any quotation or bid without assigning any reason thereof.
10. All prices should be mentioned F.O.B/CIP/CIF New Delhi or Destination at IIT Kanpur.
11. Payment Terms: 100% after supply of the materials.
12. Bidder must clearly mention their contact details with address and email ID.



Dr. Pranav Joshi