

**Foundation for Innovation and Technology Transfer
IIT Delhi**

26 May 2017

Sub: NIQ for Accelerometer and Low Noise Cables.

Clearly marked separate sealed quotations (with separate technical and price bids) are invited for **accelerometer and low noise cables**.

The bids should be submitted on or before 9th June 2017 (3 pm) to the office of M.D. FITT, IIT Delhi. Both FOB and CIF New Delhi prices (clearly indicating the taxes applicable and discount) should be quoted with agency certificate, proprietary certificate (as applicable) and delivery schedule. The payment will be made within 30 days after receipt of the items.

Specification for accelerometers for bearing vibration measurements

Type:	IEPE TEDS
Voltage Sensitivity:	10mV/g or better
Measurement range:	20 g or better
Transverse sensitivity:	<5%
Frequency range:	0.5Hz to 12.5kHz or wider
Residual Noise:	500 micro-g or lower (Broadband)
Temperature Range:	min 125 DegC or better
Max Non-destructive Shock:	10000g pk or better
Thermal sensitivity:	0.35%/°C or better
Size:	less than 15mm diameter
Mounted Resonance freq.:	>35 kHz
Magnetic Sensitivity (g/kG):	0.03 or better
Weight (gm):	less than 10

Insulated base, Top/side connector, Stud mounted, hermetically sealed, titanium case, calibration chart. The vendor should have supplied similar sensors to IITs and reputed research labs during last 1 year. This must be supported with documents.

Sensing material: quartz in shear preferred. Accelerometer with least residual noise /lower minimum measurable g level will be preferred.

Cable, super low-noise, 10-32 UNF (M) to 10-32 UNF (M), 5,0m (16,7ft), max.+250°C

The bidders will quote for both variants (with top and side connectors) of sensors for the above specifications. Required quantity: 6 accelerometers with cable.

Submit the quotations within the deadline to:

M.D. FITT,
IIT Delhi
Hauz Khas,
New Delhi-110016