

Item Name: High Frequency Data Acquisition System – One Unit

Technical Specifications:

- 8 Channel
- **Accuracy class:** up to 0.05%
- 4 bit AtoD per converter
- **Sample rate per channel:** up to 40 kS/s
- For using Full-bridge or half-bridge strain
- SG quarter bridge with adapter
- Current-fed piezoelectric transducers
- Piezoresistive full bridge
- Resistance thermometers (PT100 / PT1000) Thermocouples (types K, N, R, S, T, B, E, J, C)
- Ohmic resistor
- Potentiometric transducers (Poti)
- Inductive half or full bridge, LVDT
- Voltage ($\pm 100\text{mV}$, $\pm 10\text{V}$, $\pm 60\text{V}$) and Current (0 / 4 ... 20 mA, 2-/3- or 4-wire)

Terms and Conditions:

- The equipment must have One Year warranty. Quote must include warranty and AMC cost for the 2nd and 3rd Year. Total cost for 3 years will be considered for the finance bid price comparison.
- The Quote must also include installation and delivery at IIT Madras.
- All necessary manuals, perpetual license of software (necessary for operation and maintenance) must be provided. Software Key must be provided for installation at other systems, in case of fault in the supplied system or software reinstallation situations.
- The ONE DAY training on the equipment utilization and maintenance must be provided.
- Quote must include essential cables, connectors, standard samples, consumable needed.
- The bidder must either be OEM or legal representatives of the OEM in India
- The supplier must have supplied and installed similar equipment / instrument of at least 2 in last 3 Years. Proof of supply and installation and location of the installation must be mentioned in the quote.