Vendors are requested to send the Quotation along with compliance certificate on or before 12th February, 2019.

Item name: Software enabled Data acquisition System-II

| | Item Specifications |
|---|---|
| Dynamic Signal Acquisition System (4-channel) with a dedicated software | Dynamic Signal Acquisition hardware should contain 4 chann Inputs for IEPE sensors |
| | 4-input channels should have simultaneous sampling rate, 50 kS/s/s mandatory for Vibration measurements |
| | 4 input channels with ±5 VDC, BNC connector. |
| | Delta-Sigma ADC with 24-bit resolution @ 102 dB dynamic range |
| | for dynamic vibration measurements |
| | It must support DC, AC, ICP Input coupling for vibratio measurements |
| | Software-selectable IEPE signal conditioning, |
| | IEPE excitation current 2mA |
| | Should support TEDS, IEEE 1451.4 TEDS class I |
| | -40 °C to 70 °C temperature range to meet a variety of application and environmental needs |
| | Overvoltage protection: ±30 VDC |
| | 1-slot Ethernet Compact DAQ chassis |
| | Power connection to chassis with screws |
| | DAQ should meet Safety & Hazardous standards, Electromagnetic compatibility, CE compliance |
| | DAQ should meet Shock & Vibration as per standards "Random IEC 60068-2-64", "Sinusoidal IEC 60068-2-6", "Operating shock IEC 60068-2-27" |
| | Software-For real time vibration analysis DAQ should contain a 4 channel FFT analyzer. |
| | Software-Should Integrate Acceleration to velocity and displacement, FFT Zoom, Spectrum |
| | Software-Should display Amplitude g (pk, rms, avg) vs time |
| | Software-Built-in data streaming and playback for post processing |
| | Software-Should support Frequency response function (FRF) |
| | Software-The input response of Impact hammer and output response of Accelerometer should be measured as input to output response called FRF |
| | The item should have minimum One-year comprehensive warranty |
| | Installation: Free of cost at IIT Madras |

The software enabled data acquisition system-II, having the above mentioned specifications should be compatible and successfully integrable with the Triaxial accelerometer (type: 8763B050BB) with hammer (type: 9724A2000) of KISTLER make. The vendor has to also include a statement in support of this in the compliance certificate.

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Aritan Can

Gl. James