Vendors are requested to send the Quotation along with compliance certificate on or before 14th February, 2019.

Item name: Software enabled data acquisition System-I

	Item Specifications
Data Acquisition Hardware with supporting software (2-channel)	• DAQ should be based on 4-channel digitizer capable to measure transient signals
	• Four Simultaneously Sampled analog inputs, high resolution measurements up to 5 MS/s/ch
	• 4 input ranges: ±10 VDC
	• 4 input BNC connector
	• The DAQ should allow up to 128 Mbits of measurement data to be transferred to the controller
	• DAQ should have three acquisition modes: continuous mode, record mode, and advanced mode.
	• -40 °C to 70 °C temperature range to meet a variety of application and environmental needs
	• Overvoltage protection: ±30 VDC
	• 1-slot Ethernet portable chassis for PC interface
	• Trigger modes to be supported
	• 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"
	• Digitizer Modules should be versatile enough for both high-speed and high-resolution time□ and frequency□domain measurements
	• Software: 2-channel Software, Single user application
	• Software: On-line time domain graph, display and recording
	• Software: Frame by frame playback for post processing
	• Software: Frame by frame calculation of RMS, peak energy level, Kurtosis, Crest Factor, Skewness
	• Software: Fast Fourier Transform analysis with cursor to measure frequency and amplitude value
	• Software: Sorted list of all peak amplitudes with its frequency
	• Software: Microsoft windows compatible measurement analysis software
	• Item should have minimum One-year comprehensive warranty
	• Installation and training: Free of cost at IIT Madras

The software enabled data acquisition system-I having the above mentioned specifications **should be compatible and successfully integrable** with the Acoustic Emission Sensor (100-900 kHz) of KISTLER make (type: 8852A103031N2). The compliance report must include a statement in support of this.