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Dated: 22/02/2017

Enquiry no:-NaMPET/EE/DSO/2016-2017

"Sealed Tenders are invited for procurement of 500 MHz 4 Channel DSO"

The NaMPET Laboratory requires 500MHz/4 channel having following specifications –

Technical Specification of 500MHz for 4 Channels Digital Storage Oscilloscope

A. High Memory

Sno	Specifications	Descriptions
1	Bandwidth	DC to 500MHz
2	Number of Channels	4(four) Channels
3	Memory Depth/ Record Length	10Mpts per channels or Higher during continuous measurement
4	Sampling Rate	5GSa/Sec or better with minimum 1.25 Gs/S with all four channels in operation.
5	Vertical Input Sensitivity	2mV/div to 100V/div or better
6	Time base Range	1ns/div to 500sec/div or better
7	Time Base Accuracy	±0.002 % or better
8	Automatic measurements	21Nos. or Higher Measurements include: V DC, V AC _{RMS} , V AC+DC, V _{Peak} Max, V _{Peak} Min, Peak to Peak, A DC, A AC, A AC+DC, Frequency, Rise time (using cursors), Fall time (using cursors), Phase (between any 2 inputs), Positive pulse width, Negative pulse width, Positive duty cycle, Negative duty cycle, dBV, dBm into 50 Ω and 600 Ω .
9	Math function	Add, subtract, and multiply waveforms, Integration, Spectral magnitude. Set FFT vertical scale to Linear or Logarithmic, and FFT window to Automatic, Hamming, Hanning, or None
10	Connectivity	1. USB Interface with data & waveform down load in PC & flash drive both. 2. Ethernet
11	A/D resolution	8 bit or more
12	Input impedance	1 MΩ ± 1% (14 pF)
13	Display Size	8-inch or More
14	Operating Voltage	240 VAC, 50Hz
15	Software	Free ,for waveform download
16	Warranty	At Least Three Years
17	Accessories	1) Standard Accessories with carrying case & User Manual,
18	QTY	02 or above (depends upon Price & available fund).

B. Low memory

Sno	Specifications	Descriptions
1	Bandwidth	DC to 500MHz
2	Number of Channels	4(four) Channels
3	Memory Depth/ Record Length	4 Mpts per channels or Higher during continuous measurement
4	Sampling Rate	5GSa/Sec or better with minimum 1.25 Gs/S Gs/S with all four channels in operation.
5	Vertical Input Sensitivity	2mV/div to 100V/div or better
6	Time base Range	1ns/div to 500sec/div or better
7	Time Base Accuracy	±0.002 % or better
8	Automatic measurements	21Nos. or Higher Measurements include: V DC, V AC _{RMS} , V AC+DC, V _{Peak} Max, V _{Peak} Min, Peak to Peak, A DC, A AC, A AC+DC, Frequency, Rise time (using cursors), Fall time (using cursors), Phase (between any 2 inputs), Positive pulse width, Negative pulse width, Positive duty cycle, Negative duty cycle, dBV, dBm into 50 Ω and 600 Ω .
9	Math function	Add, subtract, and multiply waveforms, Integration, Spectral magnitude. Set FFT vertical scale to Linear or Logarithmic, and FFT window to Automatic, Hamming, Hanning, or None

10	Connectivity	1. USB Interface with data & waveform down load in PC & flash drive both. 2. Ethernet
11	A/D resolution	8 bit or more
12	Input impedance	1 M Ω \pm 1% (14 pF)
13	Display Size	8-inch or More
14	Operating Voltage	240 VAC, 50Hz
15	Software	Free ,for waveform download
16	Warranty	At Least Three Years
17	Accessories	1) Standard Accessories with carrying case & User Manual,
18	QTY	02 or above (depends upon Price & available fund).

Sealed Tender are invited for DSO with aforesaid specifications on or before **March7th , 2017** with marking the tender number at top of envelope, which should be in favour of “**Dr. P. Sensarma, Department of Electrical Engineering IIT Kanpur 208016**”. The Indenter has right to accept or reject the tender without assigning any reason thereof. Also the indenter reserves the right to reject or accept all or any of the offers made above.

akbasu

(Amit Kumar Basu)

In-charge

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National Mission for Power Electronics Technology (NaMPET) Laboratory

WL-110

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