



**STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR**

Tender: **Ref NO: Real Time DSO/AIML/ DJAC Building/IIT/FIRST/DP/17-11-2025**

To,
Foundation for Innovation
And Research in Science & Technology
IIT Kanpur Kalyanpur Kanpur UP 208016

Invitation for Quotations of equipment's for our DJAC Building at FIRST of IIT Kanpur.

Sealed Quotations (**technical bid and financial bid, separately inside the main envelop**) along with **Certificate or Authorization Letter** are invited as per the specifications provided in the below table for the items from the **authorized suppliers**. The sealed quotation should reach the undersigned on or before **27-11-2025** before **1700 hrs.** Through registered/speed post/courier/by hand.

The envelope must be inscribed with "Quotation for the Tender: **Ref NO: Real Time DSO/AIML / DJAC Building/IIT/FIRST/DP/17-11-2025**

The Quotations would be evaluated separately

Real Time Digital Storage Oscilloscope

Sr No	Parameter	Specification
1	Type of input channels	Analog
2	Number of Analog Channels	4
3	Bandwidth	$\geq 600\text{MHz}$ or better
4	Record Length	200 Mpoints on 4 Channel, 800 Mpoints on 1 channel
5	Sampling Rate	max. 10 Gsample/s on 4 channels, max. 20 Gsample/s on 2 channels
6	Input Impedance	50 ohm and 1 Mohm
7	Maximum input voltage	5 V @ 50 ohm 150 V @ 1 Mohm
8	Rise time(10 % to 90 %)	104 ps
9	Vertical Sensitivity	1 mV/div to 10 V/div,
10	Time Base range	25 ps/div to 10000 s/div
11	Timebase accuracy	± 10 ppb
12	Measurement Features	amplitude, peak-to-peak,RMS, rise time, fall time, positive width, negative width, period, frequency, duty cycle, delay,

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		phase, burst width, pulse count, Eye diagram, THD, OBW, channel power, distortion variants THDa, THDu and THDr
13	Generic	
14	Waveform Update Rate (Waveform/sec)	> 1 000 000 waveforms/s or better
15	Coupling	AC, DC, Ground
16	Trigger Types	Edge, Glitch, Width, Runt, external, Hold, Pattern, State, Zone trigger
17	Measurements	Math: add, subtract, multiply, invert, absolute value, differentiate, log10, loge, log2, rescale, FIR, FFT magnitude, spectral magnitude and phase, real and imaginary spectra, group delay, Histogram, Mask test
18	Acquisition Modes	Sample, peak detect, high resolution, RMS, roll mode, envelop, normal
19	I/O Interface	USB, LAN
20	Power Source	100 V to 240 V at 50 Hz to 60 Hz
21	Accessories	yes
22	Inbuilt Minimum Display Size	15.6" LC TFT color display with capacitive touchscreen
23	Operating System	Windows 10 or better
24	Operating Temperature	0 to 45 deg C
25	Operating Humidity (RH)	85%
26	Warranty	1 year or better
27	The OEM should have a NABL accredited Calibration Lab within India.	Required
28	Future Upgradeability:	Upto 6GHz Bandwidth
		Inbuilt Arbitrary Waveform Generator - 100MHz
		Spectrum analysis
		16 x Digital Channels
		Protocol Analysis for I2C, SPI, etc
		IQ Analysis

Terms & Condition

1. Each bidder shall submit only one quotation.

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2. FIRST reserves right to accept or reject any or all bid(s) without assigning any reason.
3. It may be mandated to present the bids in-person at FIRST, IIT Kanpur and bidder shall be ready for it without any prejudice.
4. The bidder should be a reputed vendor and should have establishment of more than 5 years old. Copy of certificate of Establishment should be provided with the Technical Bid.
5. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
6. Financial bids of technically qualified and approve bidders shall be opened.
7. Financial evaluation is purely done on the total financial implication.
8. Quotations from the bids that do not meet the technical criteria set in the tender document will not be considered irrespective of the price or any other criteria.
9. Payment shall be made in full upon successful delivery and acceptance of the goods/services by the purchaser, in accordance with the agreed specifications and terms outlined in the contract.
10. In - Charge will be appointed by FIRST for supervision of work and verification of Bills.

Prof. Deepu Philip
Director, FIRST

Address for Quotation:

Prof. Deepu Philip

Office No. S7, Second Floor
FIRST, SIIC Centre, Sixth Avenue,
Indian Institute of Technology Kanpur
Kalyanpur, UP- 208016 INDIA

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