

**Indian Institute of Technology, Kanpur**

**Department of Physics**

**Enquiry no.: IITK/PHY/2017-18/91**

**Enquiry date: 23/01/2018**

**Closing date: 07/02/2018**

Sealed quotations are invited for RF Spectrum Analyzer as stated below.  
Any compliance claimed should be supported with necessary data sheet

RF Spectrum Analyzer Qty. 01

**Frequency:**

RF input frequency range	9 kHz to $\geq 6$ GHz
Frequency reference accuracy	$\leq \pm 25$ ppm
External frequency reference input	$\approx 10$ MHz (input frequency), $50 \Omega$

**Amplitude:**

RF input impedance	$50 \Omega$
Maximum RF input level	$\pm 40$ V (DC)
Amplitude accuracy at all center frequencies	$< 2$ dB

**Acquisition system:**

Capture bandwidth	40 MHz
ADC sample rate and bit width	$> 100$ Ms/s, 14 bit
Real Time Capabilities	Required
Real-time IF acquisition data	$> 100$ Ms/s, 16 bit integer real samples, 40 MHz BW
Phase Noise (1 GHz CF, 10 kHz offset)	$< -80$ dBc/Hz
Acquisition technology	Digital Phosphor technology (DPX) required to study short timescale transient events.

**Spectrum Acquisition:**

Spectrum processing rate	$\leq 10,000$ spectrums per second
Span range (Continuous)	1 kHz to 40 MHz
Span range (swept)	$\geq 6$ GHz
Full span sweep speed	16.5 GHz/sec at 1 MHz

**Terms and conditions:**

Quote should be made in two parts: Technical bid and Financial bid separately in sealed envelopes.

Financial bids for the product whose technical bid is not acceptable will not be opened. Any quote with the financial bid included in the technical bid will be summarily rejected.

The sealed envelopes with the quotes should be superscribed with the Inquiry number and whether it is a technical or financial bid.

The delivery period should be specifically stated.

Quotes should be made for delivery to IIT Kanpur

Maximum educational discounts should be applied – this equipment will be used for research as well as teach and trainstudents.

Quotes should have a minimum validity of 60 days

Address the quotations to:

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