

Indent No: C/6180/2017/1772/T

Annexure-A

**SCOPE FOR DIGITAL STORAGE OSCILLOSCOPE- 4 NO ANALOG CHANNEL, 16
NO DIGITAL CHANNEL, 200 MHZ BANDWIDTH**

Sl. No	Description	Quantity	Accepted (Yes/No)	Deviation	Remarks
1.	MATERIAL SUPPLY INCLUDING SCOPE OF WORK				
1.1	Make and Model No of offered equipment	1 No.			Vendor to offer standard models only with model no and provide details.
1.2	Technical specifications :				
1.2.1	No of Analog channels = 4				Bidder to provide details & comply
1.2.2	Digital Channels = 16				Bidder to provide details & comply
1.2.3	Bandwidth = 200 MHz or more				Bidder to provide details & comply
1.2.4	Maximum Sampling Rate = 2 GHz or more				Bidder to provide details & comply
1.2.5	Display Size = 8.0 inch or more				Bidder to provide details & comply
1.2.6	Display Resolution = 800 X 480				Bidder to provide details & comply
1.2.7	Input Coupling = AC & DC;				Bidder to provide details & comply
1.2.8	Input Impedance = 1M Ω, 50 Ω				Bidder to provide details & comply
1.2.9	Waveform Update Rate >2,00,000 waveform /Sec.				Bidder to provide details & comply
1.2.10	Time base Range = 2 ns to 50 s/div				Bidder to provide details & comply
1.2.11	Voltage Sensitivity = 1 mV/div to 5 V/div				Bidder to provide details & comply
1.2.12	Vertical Analog channel Resolution = 8 Bit				Bidder to provide details & comply
1.2.13	Acquisition Mode = Peak Detect, Averaging, Hi Res				Bidder to provide details & comply
1.2.14	Measurement = Automatic for Time, Frequency, Duty Cycle, RMS and PP voltages				Bidder to provide details & comply
1.2.15	Trigger Types = Setup & hold, Logic, Timeout, Edge, Runt, Pulse Width, Rise/Fall Time				Bidder to provide details & comply
1.2.16	Threshold Selection for digital channel TTL, CMOS, ECL				Bidder to provide details & comply
1.2.17	Connectivity = Internal/USB 2.0/PC				Bidder to provide details & comply
1.2.18	Operating Temperature = 0°C to +50°C				Bidder to provide details & comply

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1.2.19	Language = English				Bidder to provide details & comply
1.2.20	Power Supply = 100-240V, 50/60 HZ $\pm 10\%$				Bidder to provide details & comply
1.3	Probe and accessories				
1.3.1	10:1 Passive Probe	4 No			Bidder to provide details & comply
1.3.2	16 Digital Channel MSO Cable	1 Set			Bidder to provide details & comply
1.3.3	100:1 High Voltage Probe	1 No			Bidder to provide details & comply
1.3.4	Power Cord of Length 3 m	1 No			Bidder to provide details & comply
2.	<u>COMMISSIONING:</u>				
2.1	Party shall demonstrate working of all the functions of the equipment as described above and as required by BHEL at HEEP, BHEL, Haridwar.				Bidder to comply
3.	<u>DOCUMENTATION</u>				
	Following documents shall be supplied by the Party:				
3.1	Hard copy of user manual/maintenance manual along soft copy on DVD/CD/Pendrive	01 Set			Bidder to comply
4.	<u>WARRANTY:</u>				
	Party shall stand warranty for a period of 3 Years from the date of successful commissioning of the equipment at HEEP, BHEL, Haridwar. Vendor to provide onsite service support during warranty period.				Bidder to comply
5	<u>GENERAL CONDITIONS:</u>				
5.1	A point wise compliance statement shall be submitted by the party with reference to the above scope of supply against each clause/sub-clause with relevant details & comments. Non-compliance to any of the above clauses & quoting inadequate quantity can lead to disqualification of the offer.				Information to bidder
5.2	Vendor must compulsorily quote the quantity exactly as per the Scope of supply. No reduction in quantity as per the above Scope of supply is permissible.				Information to bidder

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