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प्लाज्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त
संस्थान



An Aided Institute of Department of Atomic Energy,
Government of India

इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT
DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2020/2021/2028
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/18-19/071
Date : 06-06-2018

Due on : 28-06-2018 by 1:00 PM IST

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to localpurchase@ipr.res.in

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., http://www.ipr.res.in/documents/tender_terms.html / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: IPR-LP-01.V4)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer clause no: 8 of Form No: IPR-LP-01.V4

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	4 channels Digital Oscilloscope	1.0 Nos.

Note: -

Encl: As per attachment.

Sd/-

Mr. D. Ramesh
Purchase Officer-II

Information to Vendors: We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tenderseng.html> for our future requirement.

Four Channels Digital Oscilloscope

Technical specifications:

1. Bandwidth: 200 MHz
2. Type of Input channels: Analog
3. No. of Analog Channels: 4
4. Record Length Per Analog Channel Simultaneously: ~ 1M points
5. Sampling Rate Per Analog Channel Simultaneously: ~1 GS/ sec
6. Display Type: colour TFT
7. Minimum display size: 7 inch
8. Vertical sensitivity: 2 mV/ div to 5 V/div
9. Vertical resolution: 8 bit
10. Frequency Analyses feature should be present.
11. Time Base range: 2 ns to 100 s
12. Minimum detectable pulse width: 10 nanosecond
13. Waveform Update rate: ~ 3500 Waveform/sec
14. Coupling: AC, DC, GND
15. Trigger type: Edge, pulse width, video, runt, setup/hold should be available
16. Math function e.g. Add, subtract, multiply, divide, Automatic Measurements of Amplitude and time ,FFT (phase),low-pass filter ,Frequency Domain function ,Time & Voltage cursors ,FFT (magnitude) should be available for real time measurement.
17. Acquisition Modes: Sample, Peak Detect, Averaging, Roll Mode should be present
18. I/O Interface: USB
19. Power Source: 230 V AC
20. 4 Passive Probes of 200MHz, CD, operation manual, Power cord should be provided as accessories along with the oscilloscope.

Technical Comparison statement of Digital Oscilloscope

Parameter	IPR specification	Vendor Specifications
Bandwidth	200 MHz	
Type of Input channels	Analog	
No. of Analog Channels	4	
Record Length Per Analog Channel Simultaneously	~ 1M points	
Sampling Rate Per Analog Channel Simultaneously	~1 GS/ sec	
Display Type	colour TFT	
Minimum display size	7 inch	
Vertical sensitivity	2 mV/ div to 5 V/div	
Vertical resolution	8 bit	
Frequency Analyses feature	Should be present	
Time Base range	2 ns to 100 s	
Minimum detectable pulse width	10 nanosecond	
Waveform Update rate	~ 3500 Waveform/sec	
Coupling	AC, DC, GND	
Trigger type	Edge, pulse width, video, runt, setup/hold should be available	
Real time measurement	Math function e.g. Add, subtract, multiply, divide, Automatic Measurements of Amplitude and time ,FFT (phase),low-pass filter ,Frequency Domain function ,Time & Voltage cursors ,FFT (magnitude) should be present.	
Acquisition Modes	Sample, Peak Detect, Averaging, Roll Mode should be present	
I/O Interface	USB	
Power Source	230 V AC	
Accessories	4 Passive Probes of 200MHz, CD, operation manual, Power cord	
Cost	Rs. 1,60,000/-	