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प्लाज़्मा 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](http://www.ipr.res.in)

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Phone: (079) 2396 2020/2021/2028

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## ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/006

Date : 04-04-2019

**Due on : 02-05-2019 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](mailto: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](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	Four channel 100 MHz digital Oscilloscope as per attached specifications	1.0 Nos.

Note: Note : (1) Unsigned quotations are not acceptable.  
Quotation should be submitted duly signed on ALL PAGES  
invariably  
(2) TDS as per CGST Act : As per provisions of section

No. 51 of the CGST Act 2017, TDS @ 2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 Lakhs, in the event of order in Indian Rupees

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/tendersenq.html> for our future requirement.

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### Technical Specification for Oscilloscope

Sr. No.	Specifications	Required by IPR
1.	No. of Channels	4 Analog channels
2.	Bandwidth	100 MHz
3.	Real Time Sampling Rate	1 GS/s on each analog channel or more
4.	Trigger Types and Modes	Types: Pulse width, Logic, Setup & Hold, Rise/Fall Time, Video; Modes: Auto, Normal, and Single
5.	Trigger source	Any input channel, External
6.	Input Impedance	1 M $\Omega$ $\pm$ 2%
7.	Input Coupling	AC,DC,GND
8.	Vertical Resolution	8 bit
9.	Time axis Sensitivity	Minimum 2 ns to maximum 100 Sec/div
10.	Vertical Sensitivity	2 mV/div to 5 V/div at 1 M Ohm input impedance
11.	Record Length	500 kpts. Per channel or better
12.	Acquisition Modes	Peak Detect, Sample, Average, Single sequence
13.	Measurement	Period, Frequency, width, Rise Time, Fall Time, Max, Min, Peak-to-Peak, Mean, Cycle RMS. Operators – Add, Subtract, Multiply, FFT with Windows: Hanning, Flat Top, Rectangular
14.	Display	7 inch liquid crystal TFT color display.
15.	Instrument Interface	Removable Data Storage via Front Panel USB Port and also from backplane; LAN interface should be available as option
16.	Remote Control	Oscilloscope should be controllable with embedded web browser based application using LAN interface
17.	Operating Temperature	0° to 50° C
18.	Operating Power	230 VAC 50Hz, Single Phase (If operable through DC, then suitable adaptor for above AC source must be included)
19.	Warranty	5 years or better

**Important NOTE:**

1. The quotation should include hard copy/ soft copy/ weblink of the detailed specifications or manual of the model that is being quoted. Without this information, the quotation cannot be considered.
2. The quotation MUST include the compliance sheet (being provided with this inquiry) filled with the values/offer against each point of the specifications. Merely writing "YES" without supplying the relevant document as a proof will result non-consideration of the quotations.
3. Warranty & post warranty services should be available in India.
4. The vendor must quote all necessary accessories for complete operation of the equipment
5. Installation and demo should be done at site

## Compliance sheet

(To be filled by the vendor and to be sent along with the quotation)

Vendors are requested to fill in the specifications of their quoted model. More than one model or specifications can be mentioned. Any deviation/ suggestion **MUST clearly be mentioned** here vis-à-vis our specifications. Extra sheet may be used if required.

Sr. No.	Specifications	Required by IPR	Vendor's Specification for the quoted MODEL
1.	No. of Channels	4 Analog channels	
2.	Bandwidth	100 MHz	
3.	Real Time Sampling Rate	1 GS/s on each analog channel or more	
4.	Trigger Types and Modes	Types: Pulse width, Logic, Setup & Hold, Rise/Fall Time, Video; Modes: Auto, Normal, and Single	
5.	Trigger source	Any input channel, External	
6.	Input Impedance	1 MΩ ± 2%	
7.	Input Coupling	AC,DC,GND	
8.	Vertical Resolution	8 bit	
9.	Time axis Sensitivity	Minimum 2 ns to maximum 100 Sec/div	
10.	Vertical Sensitivity	2 mV/div to 5 V/div at 1 M Ohm input impedance	
11.	Record Length	500 kpts. Per channel or better	
12.	Acquisition Modes	Peak Detect, Sample, Average, Single sequence	
13.	Measurement	Period, Frequency, width, Rise Time, Fall Time, Max, Min, Peak-to-Peak, Mean, Cycle RMS. Operators – Add, Subtract, Multiply, FFT with Windows: Hanning, Flat Top, Rectangular	
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17.	Operating Temperature	0° to 50° C	
18.	Operating Power	230 VAC 50Hz, Single Phase (If operable through DC, then suitable adaptor for above AC source must be included)	
19.	Warranty	5 years or better	
20.	Any other Remarks		