

# INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus  
Farmagudi, Ponda, Goa 403401  
E-mail: [purchase@iitgoa.ac.in](mailto:purchase@iitgoa.ac.in)

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2021-22/007

Date: 23/06/2021

IIT Goa invites sealed quotations in single bid form for the supply of below mentioned items.

Sl. No.	Description of Item	Qty
1	Digital Storage Oscilloscope with Isolated Channels (Detailed specifications attached)	01
2	High Voltage Probe (Detailed specifications attached)	01
3	AC/DC Current Probe (Detailed specifications attached)	01

## **Terms & Conditions**

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices: Prices should be quoted in INR – F.O.R., IIT Goa basis only.
5. Payment terms: Within 30 days after the delivery and successful installation of items at IIT Goa.
6. Delivery and installation should be made within 4 weeks of getting a confirmed order.
7. Supplier should provide minimum three-years warranty for the above stated items.
8. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
9. It is mandatory for bidders to quote items having Local Content more than 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. II dated 04.06.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India.
10. The successful bidder has to submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year plus 60 days OR up-to warranty period whichever is later from the date of issue of Purchase Order. Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of order acknowledgment as a successful bidder.
11. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason in public interest.

12. For any clarification, you may kindly contact Prof. Bidhyadhar Subudhi (E-mail: [bidyadhar@iitgoa.ac.in](mailto:bidyadhar@iitgoa.ac.in)) and Stores & Purchase Department (email: [purchase@iitgoa.ac.in](mailto:purchase@iitgoa.ac.in)) till 03/07/2021.
13. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs on or before 14/07/2021.

**Sd/-**  
**Asst. Registrar (S&P)**

**1. SPECIFICATIONS OF DIGITAL STORAGE OSCILLOSCOPE WITH ISOLATED CHANNELS (01-Qty)**

Sr. No.	Parameters	Required Specification	
1	Isolated Channels	4	
2	a) Sampling / Channel	2.0 G samples/s minimum	
	b) Bandwidth	200 MHz or more	
3	Isolation Float Voltage	600 Vrms Min (reference to earth) CAT-II	
4	Isolation Float Voltage	1200 Vrms Min (channel reference to channel reference) CAT-II	
5	Maximum Input Voltage	300 Vrms (tip to reference of standard passive probes), 1000 Vrms (tip to reference of high voltage passive probe) CAT-II	
6	Vertical Resolution	At Least 8 Bits	
7	Record Length	2500 points	
8	DC Gain Accuracy	± 3 %	
9	Horizontal Accuracy	± 50 ppm	
10	Linear dynamic range	± 5V	
11	Sensitivity	2 mV to 200 mV per div. ± 2V; >200mV to 5V/div. ± 50V	
12	Time/Division Range	2.5 ns to 50s/division	
13	Horizontal Zoom	Trigger modes	Auto, Normal, Single shot
		Source	CH1, CH2, CH3, CH4, Ext, Ext/5, Ext/10
	Trigger	Edge (rising, falling)	level, pos/neg slope on any channel
		Coupling	AC, DC, Noise Reject, HF reject, LF Reject
		Video	Trigger on all lines or individual line, odd/even line (NTSC, PAL, and SECAM)
		Pulse Width –	Trigger on a pulse width less than, greater than, equal to, or not equal to a selectable time limit ranging from 33ns to 10s
Trigger View Display	LCD colour		
14	Waveform Processing	Add/Subtract, Multiply, FFT	
15	Measurement System	Automatic Waveform Measurement – Period, Frequency, +width, -width, Rise time, Fall time, Max, Min, Peak to peak, Mean, and RMS	
16	Battery	swappable battery pack with providing 4 hours of battery operation	
17	Optional Power Measurements	Instantaneous power waveform analysis, Waveform analysis, harmonic analysis, switching loss, phase angles, dv/dt and di/dt cursors	
18	Operating Temperature	0 - 50°C	
19	Humidity	60 – 90 % RH	
20	Warranty	Minimum 3 Years	
21	Accessories	<ul style="list-style-type: none"> <li>✓ 200 MHz, 10X passive probes (one per channel).</li> <li>✓ One Lithium-Ion battery with fuel gauge</li> </ul> For 4-hour battery life	

		<ul style="list-style-type: none"> <li>✓ User manual</li> <li>✓ AC Adapter with Power Cord suitable for Indian system.</li> <li>✓ NIM/NIST-Traceable Certificate of Calibration.</li> <li>✓ Front Protective Cover.</li> <li>✓ USB to RS-232 Cable for Scope-PC Communication</li> </ul>
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## 2. SPECIFICATIONS OF HIGH VOLTAGE PROBE (01-Qty)

Sr. No.	Parameters	Required Specification
1	Nominal length	1.2 m
2	Attenuation	100X
3	Bandwidth	200 MHz
4	Rise time (typ)	2.2 ns
5	Loading	100 M $\Omega$ / 4.0 pF
6	Maximum input voltage, DC or RMS	1000 VRMS CAT II
7	Maximum float voltage	600 VRMS CAT II
8	Compensation range (pf)	10 to 22
9	Readout	No
10	EMC Environment safety	UL61010-1, UL61010B-2-031, CSA61010-1

## 3. SPECIFICATIONS OF AC/DC CURRENT PROBE (01-Qty)

Sr. No.	Parameters	Required Specification
1	Frequency range	DC to 100 kHz
2	Maximum input current	100 A peak
3	Output	10 mV/A, 100 mV/A
4	Maximum conductor diameter	11.8 mm (0.46 in.)
5	Termination	BNC <sup>1</sup>
6	Maximum bare-wire voltage	600 V (CAT III)
7	Safety	UL3111-2-032, CSA1010.2.032, EN61010-2-032, IEC61010-2-032

## FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on **Non-judicial stamp paper** of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA OR ANY SCHEDULED BANK SITUATED AT GOA. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.

To,  
The Registrar,  
Indian Institute of Technology, Goa  
Farmagudi, Ponda,  
Goa – 403401

### **LETTER OF GUARANTEE**

WHEREAS Indian Institute of Technology, Goa (Buyer) have invited Tenders vide Tender No..... Dt. .... for purchase of .....

AND

WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Registrar, Indian Institute of Technology, Goa**” in the form of Bank Guarantee for Rs ..... (**3% (three percent) of the purchase value**) and valid till **one year or upto warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of Order Acknowledgment as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology, Goa on demand and without protest or demur Rs..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology, Goa (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ..... (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology, Goa (Buyer).

### **Notwithstanding anything contained herein:**

1. Our liability under this Bank Guarantee shall not exceed Rs. .... (Indian Rupees ..... only).
2. This Bank Guarantee shall be valid up to .....(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Goa serve upon us a written claim or demand on or before ..... (date).
4. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Date:

Yours truly,

Signature and seal of the Guarantor:

Name of Bank:

**Instruction to Bank:** Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

## DECLARATION OF LOCAL CONTENT

(To be given on company letter head - For tender value below Rs.10 crores)  
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above  
Rs.10 crores)

Date:

To,  
The Registrar,  
Indian Institute of Technology Goa,  
At GEC Campus, Farmagudi, Ponda - Goa

Sub: Declaration of Local content

Tender Reference No: \_\_\_\_\_

Name of Tender: - \_\_\_\_\_

Country of Origin of Goods being offered: \_\_\_\_\_

We hereby declare that an item offered has \_\_\_\_\_ % local content. \_\_\_\_\_

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

“\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the Bidder, with Official Seal)

## UNDERTAKING FOR BID SECURITY

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,  
The Registrar,  
Indian Institute of Technology Goa,  
At GEC Campus, Farmagudi, Ponda – Goa

We, M/s ..... (name of the firm), with ref. to enquiry no. ....  
..... dtd ..... hereby undertake that:

- 1) We accept all the terms and conditions of the tender document.
- 2) We accept that, we will not modify our bid during the bid validity period, submit performance guarantee within the stipulated period and honor the contract after award of contract.
- 3) In the event of any modification to our bid by us or failure on our part to honor the contract after final award or failure to submit performance guarantee, our firm may be debarred from participation in any tender/contract notified by Indian Institute of Technology, Goa for a period of one year.

Yours faithfully,

(Signature of the bidder with date and seal)