

**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/2021-22/037**

**Date: 18/10/2021**

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

Sl. No.	Description of Item	Qty
1	Beam Apparatus (Detailed Specifications Attached)	01

**Terms and 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 two years warranty for the above stated items.
8. The Institute is following and abide with the revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. -II dated 16.09.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India & subsequent amendments/instructions of Ministry. Accordingly, preference will be given to the make in India products while evaluating the bids. However, it is sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India along with respective documentary evidence in the technical bid itself.
9. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT). This is also applicable for bidders bidding for finished goods procured directly/indirectly from the vendors from the countries sharing land border with India.
10. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.

11. Quotations shall be submitted in two parts;
  - 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”
  - 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
12. IIT Goa reserves the right to accept or reject any or all the bids without assigning any reason in public interest.
13. The successful bidder has to submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year OR up-to warranty period plus sixty days 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.
14. For any clarification, you may kindly contact Dr. Sandip Halder (E-mail: [sandip@iitgoa.ac.in](mailto:sandip@iitgoa.ac.in)) and Stores & Purchase Department (email: [purchase@iitgoa.ac.in](mailto:purchase@iitgoa.ac.in)) till 02/11/2021.
15. 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 08/11/2021.

**Sd/-**

**Asst. Registrar (S&P)**

# Specifications for Beam Apparatus

## Structure Base Stand:

- Material: Made of anodized Aluminium Extrusion (heavy duty).
- Overall dimension: Not exceeding 1800 mm (L) X 800 mm (W).
- Two beam supports with two fixing methods.
- Support with Digital Deflection Indicator of resolution 0.01 mm.
- Five different beams of length 850 mm and nominal cross sections: Aluminium 19 x 3.2 mm, 19 x 4.8 mm and 25.4 x 3.2 mm/ Brass 25.4 mm x 3.2 mm/ Mild Steel 25.4 mm x 3.2 mm.
- Test equipment operating temperature range: +5°C to +40°C.
- Weight: Not exceeding 35 kg.
- Other features: High-resolution digital deflection indicator for maximum measurement accuracy.  
Height adjustment of reaction piers.  
Quick and easy adjustment of test span.  
Measuring scale on the side of the platform for easy and accurate positioning of the parts.  
Adjustable feet to ensure the platform level and lifting handle for easy mobility.  
Should include beams of different material and cross-section as mentioned above for different reading purposes.
- Software: User-friendly and real time data acquisition software for data analysis.  
Option of recording and exporting data in various formats.

### **Learning outcomes:**

Options to conduct multiple experiments: -

Verification of the bending equation (Beam bending formula and structural ‘stiffness’).

Determination of flexural rigidity and elastic modulus (Young’s modulus).

Verification of static equilibrium.

Pure bending of a beam.

Shape of a deflected beam.

Beam length and deflection.

Beam cross-section and deflection—the Second Moment of Area (‘I’ value).

How beam fixings affect deflection of:

- Simply Supported beams
- Fixed beams
- Cantilever beams
- Propped Cantilever

Deflection due to point loads and UDLs (uniformly distributed loads).

Reciprocal properties for loads and deflection.

Simple and propped cantilevers with any loading.

### **Parts to be included:**

Mass Hangers- 12 nos.

Masses- 50 x 20 g, 10 x 10 g, 5 x 5 g.

Tools for beam fixings.

Vernier Caliper (0-150 mm) - 1 no.

Storage Tray – 1 no.

Reputed make **Plunger type Analog Dial gauge with magnetic stand**

Range: 0-10mm with Least count: 0.01mm– 1 no

Range: 0-25 or 30mm with Least count: 0.01mm– 2 nos

Software along with Cables for computer display and data acquisition.

User Guide / equipment technical manual.

- Warranty: 2 years warranty should be included.
- Support: The Firm should have minimum 3 (three) years’ experience in Educational lab equipment business (Date of Incorporation certificate should be included). The Firm must be an OEM or Authorised reseller / distributor / channel partner for Educational Lab equipment accessories and equipments.
- Supplier should comply with all the technical points clearly.
- Quoted product brochure/ product website link should be provided.
- Customer list of previously supplied educational equipment should be included.

## 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 plus sixty days 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.

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.

## **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)

## 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.

We understand that, as per Office Memorandum dated 04/03/2021 issued by Ministry of Commerce and Industry, services such as transportation, insurance, installation, commissioning, training and after sales support like AMC/CMC etc. are not considered as local value addition.

“\*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)