

# 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/2023-24/020**

**Date: 15/01/2024**

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned item: -

Sl. No.	Description of Item	Qty
1	Wind Tunnel (Detailed specifications attached)	01 No.

## **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 should be made within 4 – 6 weeks of getting a confirmed order.
7. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
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 bidder must be either OEM or authorized dealers or resellers of the original manufacturer of the proposed equipment/item in India. Both cannot bid simultaneously for the same item/product in the same tender.

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), undertaking for bid security, declaration of local content, 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. The successful bidder must submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year plus sixty 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.
13. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason in public interest.
14. For any clarification, you may kindly contact Dr. Arindam Das (E-mail: [arindam@iitgoa.ac.in](mailto:arindam@iitgoa.ac.in)) and the Stores & Purchase Section (email: [purchase@iitgoa.ac.in](mailto:purchase@iitgoa.ac.in)) till 25/01/2024.
15. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Deputy Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs. on or before 05/02/2024.

**Sd/-**  
**Registrar, IIT Goa**

### **Technical Specification for wind tunnel:**

1. Test section dimension: 300 mm x 300 mm, and 600 mm long with transparent window.
2. Low speed, open circuit , suction type tunnel with Net Dimension less than 4000 mm x 1100 mm x height 2000 mm .
3. Tunnel body and frame should be made of corrosion resistant materials such as powder coated MS.
4. Air velocity : 5 – 30 m/sec or more and measured by pitot tube and connected to differential pressure transducer and digital indicator.
5. Blower with 3-6 blades and AC Motor with AC drive – 5/10 Hp Capacity. Variable speed AC motor with VFD Controller.
6. Must have a honeycomb of 120 mm or higher length..
7. Noise level at the operator ear level: Less than 85 dB (A)
8. Data acquisition system
9. Differential pressure transducer with display and compatible with data acquisition system:
10. 3-component balance with strain gauge based 3 digital indicator to measure lift, drag and pitch that can be used with data acquisition system with capacity: lift 100N, drag 50N and pitch 2.5 Nm
11. Minimum Digital Pressure Indicators – 2 Nos and Minimum Pressure Sensors -13Nos
12. Models For Pressure Distribution, Smoke Visualization and 3 Component Balance
  - i) A full width cylinder with pressure tapping 150 mm chord NACA0012 full width aerofoil with 12 or more pressure tapings or equivalent shape.
  - ii). 150 mm chord NACA 2412 unsymmetrical section aerofoil with adjustable flap or equivalent.
  - iii) Aerofoil model (Symmetrical), Spherical, Hemispherical, Flat disc, automobile Model for lift – drag & Pitch Moment study.
  - iv) Symmetrical and aerofoil model for pressure distribution study.
  - v) Flat plate, cylinder, aerofoil and automobile model for flow visualization study.
  - vi) Angle indication and setting accessories for varying the angle of attack of the aerofoil model.
13. Pitot Tube and Digital Air Velocity Indicator. Option to mount pitot tube on high resolution x-y-z moving stage

14. Apparatus to illustrate boundary layer.
15. Smoke generator set up
16. Control panel : Independent control panel consisting of digital lift, drag Indicator, digital velocity indicator, digital speed indicator, motor control drive, smoke visualization etc.
17. Quote Multi Bank Manometer with Pressure Tapping's (Pressure Distribution) - 14 Nos for pressure distribution study separately as optional item.
18. Warranty minimum 1 years and quotation for AMC for thereafter.
19. Proper training and supply of spares and manual and detailed drawing of the set up must be provided.
20. List of users from IITs and other educational institutes should be provided along with email, contact details

## **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)

**(To be printed on letterhead of the bidder)**

**Bidder's Information**

1	Name of the Bidder	
2	Address of the Bidder	
3	PAN No.	
4	GSTIN	
5	E-mail	
6	Contact Person's Name & Designation	
7	Mobile No.	

### Reasonability of Prices

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of at least two purchase orders identical or similar equipment, supplied to any IITS/Research Institutions/ other organization as per below Format **(to be enclosed in Financial Bid)** along with the final price paid and details are mandatory.

### Previous Supply Orders

Name of the Firm \_\_\_\_\_

S.No.	PO No. & Date	Description & Quantity of ordered equipment	Value of Order	Date of completion of delivery as per contract	Remarks indicating reasons for late delivery, if any and justification of price difference of their supply order & those quoted to us	Has the equipment being installed satisfactorily (attach a certificate from the Purchaser/ Consigner)	Contact Person along with Telephone no., Fax No. and e-mail address

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature and Seal of the Manufacturer / Bidder

## 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 order value**) and valid till **one year plus sixty days or up to 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.

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 date and seal)