

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2021-22/018

Date: 20/07/2021

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

SI No.	Description of Item	Qty
1	Ductless Hood and Spray Booth for Nanoparticle Handling (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 three years warranty for the above stated items.
8. 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.
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).
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), 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. 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. Arindam Das (E-mail: arindam@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 03/08/2021.
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 10/08/2021.

Sd/-
Asst. Registrar (S&P)

Technical Specifications of Ductless hood and spray booth for nanoparticle handling

1. Ductless hood and spray booth should be compatible to handle micro to nanoparticles (< 100 nm).
2. Systems must be capable of handling Nanoparticles of oxides, carbon, polymers etc.
3. Both systems should be capable of handling fumes of organic solvents, inorganic acids and brine solutions etc.
4. Two systems should be connected with a material transfer window. In case of absence of such a window, alternate transfer system should be there to avoid outside exposure of nanoparticles during transfer from ductless hood to spray booth and vice versa.

Specification of ductless hood

5. Main body of the system must be made of corrosion resistant materials of Stainless steel or Polypropylene. Stainless steel is preferred for structural components and PP for parts exposed to chemicals. Structural strength, chemical resistance and clean room compatibility are must for the system and materials.
6. Installed filter part number and installation date must be displayed in front cover/panel
7. Electronic controls and displays must include switches for the blower and filter blockage alarm.
8. System should Continuously monitor filter loading and alerts when service is required.
9. Analog air velocity meter must be positioned in the user's field of vision.
10. System must have a hinged front sash. When closed, it should protect the contents from inadvertent external contact and better isolates the air within. It should be easy to open and close and must have a self-locking feature.
11. The internal work surface should be fitted with a stainless steel tray. PP tray if available should be coated as an optional item separately.
12. Electrical cords and cables must be safely routed into the cabinet through ports on the back.
13. The electrostatic pre-filter must be accessible from inside the chamber and it must have 90% effectiveness down to 1 micron.
14. Filter access keys must be provided to prevent unauthorized removal or accidental exposure to dirty filters.
15. Appropriate provision should be there to set the EC blower speed by Authorized personnel.
16. Mobile cart with locking casters if available should be included in the main quotation.
17. Rear baffle must be provided to ensure a smooth horizontal airflow pattern. It should be easy to remove for cleaning purposes.
18. External Exhaust Connection: Removable 6" diameter exhaust connection port should be provided for ducting to the outside.
19. Filtration system should have 3 layers of filter elements; a. electrostatic pre filter for chemicals, powders; b. ULPA main filters with efficiency of 99.999% or better at 0.12 microns; c. Activated carbon filter with stacked/single configuration and minimal flow resistance and better filtration efficiency.
20. Dimension of the system should be close to 48" × 26" × 36" (Length x Depth x Height).

21. Face velocity of the system should be 100 FPM or better with EC blower, main on/off switch, 220V -50 Hz power supply compatibility, LED lighting, maximum 50-watt power consumption.
22. The microprocessor based controller must be provided. It should monitor and display cabinet operating parameters, airflow, containment and offer limited detection of low concentrations of hydrocarbons, some gases and organic acids. Emits audio and visual alerts if conditions become unsafe and are all displayed on a LCD screen.
23. Flame resistant safe storage for combustible and flammable liquids.
24. Wired controller for lower access height to comply with ADA requirements.
25. Two NEMA-1420R receptacles with ground fault interrupter.
26. Hanging rod spans the width of the cabinet

Spray booth Specifications:

1. Spray booth should be capable of filtration of fumes, vapour and particulates coming from Spray adhesives, conformal coatings and paints, monomers, hazardous powders and particulates, resins, sealants, solders, light grinding particles, organic solvents and cleaners etc.
2. All odours and gases are extracted to the atmosphere.
3. Steel construction finished in dove grey – fan/filter unit mounted onto hood enclosure complete with clear polycarbonate panel and hood lighting - particulate filter – centrifugal blower, external rotor motor type, brushless, UL, VDE and CSA approved - sealed electrical wiring and switch, downstream of filter. Flexi-duct 2 metres x 100mm dia.
4. System should be quiet in operation and can be easily assembled.
5. System can be easily laced onto a desk, bench or trolley
6. System should have attached flexi duct or have fitting to attached flexi ducts, Flexi-duct can be fixed to a standard domestic vent or simply placed through a partially open window
7. All handling and/or use of potentially harmful substances inside should only be carried out in front of the filter intake area.
8. Board for appropriate size should be provided for efficient overspray capture for a spray area/size similar to A4 size paper.
9. Filtration system should have a particulate (intake) filter with 3 stage graduated fibre filter with a high 'dust' holding capacity suitable for long life. Filtration to 5-micron particles.
10. Volume flow rate should be 355m³/hr, average air velocity at filter intake should be at least 0.55m/s and the same at shield face should be at least 0.50 m/s. Noise level of the system should be less than 60dB or better.

Other Requirements:

1. Comprehensive 3 years warranty must be provided.
2. List of users in India with contact details must be provided.

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.

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.

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)