

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

Ground Floor, Block "A", Vishwakarma Government Engineering College Campus
Visat-Gandhinagar Highway, Chandkheda, Ahmedabad-382424. Tel/Fax No. +91 79 2397 2583
Website: www.iitgn.ac.in

Date: 19th September, 2012

Tender No.: IITGN/CH/EQP/2012-13/0237

Last date: 9th October, 2012 on/before 05:00 PM

SUB: Invitation of sealed tender for Supply of "Fumehood" as per specifications shown in the Annexure - I.

Dear Sir,

Indian Institute of Technology Gandhinagar invites sealed tender for **Supply of "Fumehood" as per specifications shown in the Annexure - I** on the following terms & conditions:

1. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the Certificate to this effect should be attached.
2. The tender documents are to be in two parts as **Technical Offer and as Financial offer:**
 - a.) The Technical offer should include the detailed specifications of main equipment/item and its accessories. All items should be numbered as numbered for each instrument in the **Annexure-I**.
 - b.) The financial offer should include the cost of main equipment/item and its accessories numbered as in (a). If there is any separate cost for installation etc. that should be quoted separately. The total cost should be quoted in words as well as figures (typed or printed). Amendment should be avoided. Amendments, if any, should be duly initialed, failing which the offers are liable to be rejected.
 - c.) The two parts of the offer should be placed in separate sealed envelopes clearly marked "**Technical Offer**" & "**Financial Offer**". These two envelopes along with envelope for EMD and Tender Fee marked "**Tender Fee & EMD**" (total three envelopes) must be enclosed in one bigger envelope duly sealed and super scribed with tender number, name of the instrument/item and tender due date must be forwarded to the undersigned so as to reach him on or before the due date.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

3. Fax and Email quotation are not acceptable.

4. Quotations should be valid for **120 days** from the tender due date. The quotation should clearly indicate the period of delivery, warranty terms etc. A minimum of two year warranty is required from the date of commissioning.

5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. The Suppliers should

submit copies of suitable documents in support of their reputation, credentials and past performance.

6. The quotations should be given for the items in the same order as in the tender document.

7. Imported supplies should be delivered by air and quoted for CIP Ahmedabad.

8. The quantity shown against each item is approximate and may vary as per demand of the Institute at the time of placing order.

9. In case of payment through Letter of Credit (LC), ninety percent of the payment will be released after completion of the supply. The balance 10% of the payment will be released after satisfactory installation of the equipment.

10. IIT Gandhinagar is exempt from payment of Excise Duty and is eligible for concessional rate of Custom Duty. Necessary certificate will be issued on demand. IIT Gandhinagar will make necessary arrangements for the clearance of imported goods at the Airport. Hence, the price should not include these charges.

11. In the event of any dispute or difference(s) between the vendee IIT Gandhinagar and the vendor(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the concerned authority of IIT Gandhinagar who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act 1996. The decision of the arbitrator shall be final and binding on both the parties.

12. The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.

13. All disputes shall be subject to Gandhinagar Jurisdiction only.

14. I.I.T. Gandhinagar has the right to accept the whole or any parts of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

15. The Tender/Bid will be open on **11.10.2012 at 03:00 PM.**

a.) The suppliers or their authorized representative may also be present during the opening of the Technical offer, if they desire so, at their own expenses.

b) Only those financial offers will be opened whose technical offers are found suitable by the expert committee appointed for the concerned instrument..

c) No separate information shall be given to individual bidders. In incomparable situation, the committee may negotiate price with the qualified bidder quoting the lowest price before awarding the offer.

16. In case the supplier requires any elucidation regarding the tender documents, they are requested to contact to the Assistant Registrar (M.M.) through e-mail, purchase@iitgn.ac.in on or before **4:00 PM, 09.10.2012**.

17. A demand draft of **Rs. 1,000/- (Rupees One Thousand Only)** towards non-refundable tender fee and a demand draft of **Rs. 19,000/- (Rupees Nineteen Thousand Only)** towards refundable EMD from a Nationalized bank in favour of "IIT Gandhinagar Main Account" payable at Ahmedabad placed in a separate envelope marked "**Tender Fee & EMD**" should accompany tender bid documents. Both the demand drafts should be valid for 180 days. Without the Tender Fee and EMD the bid will not be considered.

The EMD of the successful bidder will be returned to them without any interest after completing the successful installation. The earnest money of unsuccessful bidders will be returned to them without any interest within thirty (30) working days after awarding the offer.

18. All tender documents should have to be forwarded through speed post or registered post, courier to the following address so as to reach the following address on/before **05:00PM, 09.10.2012**.

Assistant Registrar (M.M.)

Indian Institute of Technology Gandhinagar,
Vishwakarma Government Engineering College Campus,
Ground Floor, Block "A",
Visat-Gandhinagar Highway, Chandkheda
Ahmedabad 382424
Tele/ Fax No. +91 79 2397 2583

1. Pre – Qualification Criteria:

a. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from Manufacturer on the same and specific to the tender should be enclosed.

b. An undertaking from the original Manufacturer is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.

2. Performance Guarantee Bond:

a. Performance Guarantee Bond is mandatory.

b. Successful supplier/ firm should submit performance guarantee as prescribed and to be received in the office of Assistant Registrar, Materials Management Division before the date of commencement of supply or 30 days from the date of acceptance of the purchase order, whichever is earlier. The performance guarantee bond to be furnished in the form of Bank Guarantee as per given proforma of the tender documents, for an amount covering 10% of the value of quantity of material on landed cost basis.

c. The Performance Guarantee should be established in favour of “IIT Gandhinagar Main Account” through any Nationalized Bank Situated at Ahmedabad/Gandhinagar with a clause to enforce the same on their local branch at Ahmedabad.

d. Validity of the performance guarantee bond shall be for a period of Two years from the date of issue of installation & commissioning.

3. **Delivery:** The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within one week of delivery unless otherwise prescribed.

4. **Penalty:** If the suppliers fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

5. **Training:** Suppliers need to provide adequate training at IIT Gandhinagar to the nominated person of IIT Gandhinagar at their cost. IIT Gandhinagar will not bear any training or living expenditure in this regard.

6. **Installation & Warranty Declaration:** Suppliers must give the comprehensive onsite warranty as required from the date of successful installation of Equipment against any manufacturing defects. In the installation report the model number of instrument and all spares parts numbers should be in the line of purchase order. And suppliers must be written in the warranty declaration that “everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.”

Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the suppliers need to supply all the goods in the specified form to the satisfaction / specifications specified in the Purchase order and demonstrate at the their own cost.

Sd/-

Assistant Registrar (M.M)

PARTICULARS TO BE FILLED BY THE SUPPLIER

1. Name of the Supplier:
2. Complete Address of the Supplier:
3. Availability for demonstration of instruments at IIT Gandhinagar: Yes / No [Please √]
4. Cost of the Tender enclosed: Yes/No [Please √] If yes,
 - a.) Name of the Bank_____
 - b.) Amount (Rs)_____
 - c.) Demand Draft No. _____
5. Earnest Money Deposit enclosed: Yes / No [Please √] if Yes,
 - a.) Name of the Bank_____
 - b.) Amount (Rs) _____
 - c.) Demand Draft No. _____
 - d.) Last Validity date of the enclosed DD _____
6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update IIT Gandhinagar]
 - a.) Full Name :
 - b.) Complete Postal Address:
 - c.) Telephone No.:
 - d.) Fax No.:
 - e.) Mobile No.:
 - f.) E-mail:
 - g.) Website Address:

PARTICULARS FOR PERFORMANCE GUARANTEE BOND

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

To,

The Asst. Registrar (MM),
Indian Institute of Technology Gandhinagar
VGEC Campus, Chandkheda,
Ahmedabad – 382424

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology Gandhinagar (Buyer) have invited Tenders vide Tender No..... Dt. for purchase of AND WHEREAS the said tender document requires the supplier/firm (seller) whose tender is accepted for the supply of instrument / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **“Indian Institute of Technology Gandhinagar”** in the form of Bank Guarantee for Rs [10% (ten percent) of the purchase value] which will be valid for two years from the date of installation & commissioning, the said Performance Guarantee Bond is to be submitted within 30 (Thirty) days from the date of Acceptance of the Purchase Order.

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

This Bank further agrees that the decision of Indian Institute of Technology Gandhinagar (Buyer) as to whether the said supplier/firm (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 supplier/firm (Seller) and/ or Indian Institute of Technology Gandhinagar (Buyer).

Notwithstanding anything contained herein:

a. Our liability under this Bank Guarantee shall not exceed Rs.
(Indian Rupees only).

a. This Bank Guarantee shall be valid up to(date) and

c. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Gandhinagar serve upon us a written claim or demand on or before (date).

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).

Yours truly,

Signature and seal of the guarantor:

Name of the Bank:

Complete Postal Address:

Date:

Annexure-I

- **Name of the Equipment/Item:** Fumehood
- **Required Quantity:** 01 Unit.

A) Fume Hood Specification for Tender Notice

Sr. No.	Specification	Description
1	Usage and number of FH	Regular usage, Four Fume Hoods
2	Overall dimensions	W 1800mm X D 900 mm X H 2400 mm
3	Inner FH Working Volume	W 1520 mm X D 650 mm X H 1155 mm
4	Base cabinet dimensions	W 1800 mm X D 640 mm X H 700 mm; Twin cabinet with castor wheel, with two exhaust ports , construction material should be 1.0 mm thickness GI Sheet
5	Sash arrangement	Vertical rising sash, toughened float glass (thickness = 5 mm)
6	Work top	Chemical resistant splash & spillage proof dished ' Jet Black Granite ' worktop (18 /19 mm thick). Skirting of 15 mm from all sides for no chemical spillage.
7	Sink, water tap and drain	Worktop will have sink sealed with silicon sealant for drainage with water tap on left & right back side of worktop. Sink will have a trap for waste collection. Dim: oval shaped 100 mm X 200 mm sink
8	Grid/ scaffolding	A grid made up of Duralumin Powder coated rod (Dia. 13.0 mm) to hold the apparatus. It will cover the entire length of the fume hood and will be built-in at fume hood backside. Installed at the distance of 150 mm from backside of fume hood.
9	Wet & Dry Service valves	Remotely operated Color coded Brass Needle Valves for fine control over utilities.
10	Valve tubing's & Service line	Air and nitrogen (PU); Vacuum (SS braided Teflon);
11	Electrical utilities	Five in numbers, 5/15A 3-pin socket with MCB
12	Lighting	Fluorescent light (40 watt, 2 in numbers) with vapor proof fitting; Inner chamber and the light is separated by a toughened glass of 4 mm.
13	Baffle design	Three suction points for effective suction of vacuum
14	Hood construction	Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels Made out of durable Phenolic resin laminate integral work walls (6 mm thick). ASTM flame spread index < 25.
15	Exhaust Port	Unique exhaust port design ensures that the fumes will be exhausted smoothly without any turbulence at the exhaust port. Also it ensures low noise level. Dia. 250 mm
16	Front post	Aero dynamic design
17	Internal nozzles	Powder coated brass type, taps should be tapered in shape to

		use with flexible . Also the taps are tapered in 18 Internal nozzles shape to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility.
18	Fume hood superstructure	Galvanized iron (GI) of 2.0 mm thickness
19	Maintenance ports	Open-able top panel for easy maintenance of light and flow control valves. To avoid corrosion; it should not be screwed to the liner
20	Airfoil	Aerodynamic Design, Horizontal fixed airfoil mounted on the worktop made of Teflon coated SS 304 (1.2mm). Plain SS 304 or Powder coated MS should be avoided.
21	Built-in Starter	The electrical wiring will have built-in starter of “Telemechanique” make; suitable to blower motor capacity. Starter should not be mounted on the wall and it should be part of the fume hood wiring itself.
22	Cable entering port & Cable manager	For easy access of cables from fume hood to electrical sockets. There should be a cutout in the airfoil and also there should be a cable manager across both the liner sides.
23	Chemical Storage Base Cabinet.	Base cabinet will be ready to receive the fume hood at its top. It will have following features: <ul style="list-style-type: none"> · Internal special chemical resistant material PRL lining to the cabinet walls. · Two exhaust ports connected to the fume hood exhaust system internally. · Complete powder coated attractive Color combination rigid structure to support Fume hood. · One removable horizontal partition to store chemicals. · Double skin hinged doors with hinges made of Polyamide for Chemical resistance and hassle free operations in the corrosive lab atmosphere. · PP Trays for chemical storage · Latching System for the Base Cabinet doors are “HAFELE”–Germany” Make. Overall Dimensions: 1800 mm (W) X 650 mm (D) X 600 mm (H)
24	Level adjusting screws	Made of SS Bolts to adjust the fume hood level by + 10 mm.
25	Airflow Type	Auto Bypass Type (For non-AC labs)
26	Corner Post	Triangular profiled Corner Post is placed on Left and Right Hand Side of the Fume hood and it houses the utility line fittings and electrical receptacles
27	Active Kinetics exhaust system	Interstitial 7-point active kinetics exhaust system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes. 3 point exhaust is not sufficient and not acceptable.
28	Design Basis	American Design Standard: ASHRAE11- 1995 All tests including “Tracer gas containment test” should be passed. European Design Standard: EN-14175- 2003 ‘Inner Plane Containment test’ should be passed. Both standards complete test report should be given.

Sr. No.	Specification	Description
1	Model and usage	Maxima” Fume hood for Regular usage
2	Overall dimensions	W 1800mm X D 1000 mm X H 2400 mm or closer to this
3	Inner dimensions	W 1600 mm X D 700 mm X H 1160 mm or closer to this
4	Base cabinet dimensions	W 1800 mm X D700 mm X H700 mm or closer to this; Twin cabinet with castor wheel, with two exhaust ports, construction material should be 1.0 mm think GI
5	Sash arrangement	Vertical rising sash, toughened float glass (thickness = 5 mm)
6	Work top	Chemical resistant splash & spillage proof dished ‘ Jet Black Granite ’ Worktop (18 +1 mm thick). Skirting of 15 mm from all sides for no chemical spillage.
7	Sink, water tap and drain	Worktop will have sink sealed with silicon sealant for drainage with water tap on left & right back side of worktop. Sink will have a trap for waste collection. Dim: oval shaped 100 mm X 200 mm sink
8	Grid/ scaffolding	A grid made up of Duralumin Powder coated rod (Dia. 13.0 mm) to hold the apparatus. It will cover the entire length of the fume hood and will be built-in at fume hood backside. Installed at the distance of 150 mm from backside of fume hood.
9	Wet & Dry Service valves	Remotely operated Colour coded Brass Needle Valves for fine control over utilities.
10	Valve tubing’s & Service line	Air and nitrogen (PU); Vacuum (SS braided Teflon);
11	Electrical utilities	Five in numbers, 5/15A 3-pin socket with MCB
12	Lighting	Fluorescent light (40 watt, 2 in numbers) with vapor proof fitting; Inner chamber and the light is separated by a toughened glass of 4 mm.
13	Baffle design	Three suction points for effective suction of vacuum
14	Hood construction	Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels Made out of durable Phenolic resin laminate integral work walls (6 mm thick). ASTM flame spread index < 25.
15	Exhaust Port	Unique exhaust port design ensures that the fumes will be exhausted smoothly without any turbulence at the exhaust port. Also it ensures low noise level. Dia. 250 mm
16	Front post	Aero dynamic design
17	Internal nozzles	Powder coated brass type, taps should be tapered in shape to use with flexible tubings
18	Fume hood superstructure	Galvanized iron (GI) of 2.0 mm thickness
19	Maintenance ports	Open-able top panel for easy maintenance of light and flow control valves. To avoid corrosion; it should not be screwed to the liner
20	Airfoil	Aerodynamic Design, Horizontal fixed airfoil mounted on the worktop made of Teflon coated SS 304 (1.2mm). Plain

		SS 304 or Powder coated MS should be avoided.
21	Built-in Starter	The electrical wiring will have built-in starter of “Telemecanique” make; suitable to blower motor capacity. Starter should not be mounted on the wall and it should be part of the fume hood wiring itself.
22	Cable entering port & Cable manager	For easy access of cables from fume hood to electrical sockets. There should be a cutout in the airfoil and also there should be a cable manager across both the liner sides.
23	Chemical Storage Base Cabinet.	Base cabinet will be ready to receive the fume hood at its top. It will have following features: <ul style="list-style-type: none"> · Internal special chemical resistant material PRL lining to the cabinet walls. · Two exhaust ports connected to the fume hood exhaust system internally. · Complete powder coated attractive Color combination rigid structure to support Fume hood. · One removable horizontal partition to store chemicals. · Double skin hinged doors with hinges made of Polyamide for Chemical resistance and hassle free operations in the corrosive lab atmosphere. · PP Trays for chemical storage · Latching System for the Base Cabinet doors are “HAFELE” – Germany” Make. Overall Dimensions: 1800 mm (W) X 650 mm (D) X 600 mm (H)
24	Level adjusting screws	Made of SS Bolts to adjust the fume hood level by + 10 mm.
25	Airflow Type	Auto Bypass Type (For non-AC labs)
26	Corner Post	Triangular profiled Corner Post is placed on Left and Right Hand Side of the Fume hood and it houses the utility line fittings and electrical receptacles
27	Active Kinetics exhaust system	Interstitial 7-point active kinetics exhaust system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes. 3 point exhaust is not sufficient and not acceptable.
28	Apparatus Holding grid	A grid made up of Duralumin Powder coated rod (Dia. 12.7 mm) to hold the apparatus. It will cover the entire length of the fume hood and will be built-in at fume hood backside. Installed at the distance of 150 mm from backside of fume hood.

(B) Blower /Exhaust specifications:

Sr. No.	Specification	Description
1	Construction	SISW type, chemical & heat resistant PP + FRP blower with aerodynamically balanced PP impeller, with drain plug.
2	Type	Direct drive
3	Motor	'Crompton / LHP/Other Reputed' make, 1 HP Motor 3 Phase TEFC, IP 55, Class F, continuous rating.
4	Noise level	Less than 70 decible at 1 m from fume hood

(C) Ducting: Chemical resistant tube of 200-250 mm diameter, Duct collar: molded PP construction; rigid & flexible ductwork from Fume Hood to exhaust stack point with weatherproof canopy.

(D) Installation: Should be carried out by the skilled team of the supplier with ductwork design, fitting, fixing of blower, commissioning and testing of the same at fixed extra cost.

Complete Fume Hood should be assembled inside the lab it should not be pre-assembled outside.

Installation requirements at the IIT site should be clearly mentioned.

(E) Warranty: Apart from standard warranty, additional warranty (about 2 yrs) can be quoted separately.

(F) Service: In case of any malfunctioning of fume hood(s), service should be provided within 48 hrs by the manufacturer.

Quote must have a compliance report on all the above points.