



NOTICE INVITING TENDER

FOR SUPPLY AND INSTALLATION OF FUME HOOD FOR PHYSICS DEPARTMENT

LAST DATE & TIME OF SUBMISSION	:	18.10.2016 up-to 01.00PM
DATE & TIME OF OPENING	:	18.10.2016 at 03.30PM



**NATIONAL INSTITUTE OF TECHNOLOGY
SILCHAR - 788 010**

Tel.No. Director: (03842) 224879

Fax: (03842) 224797

NOTICE INVITING TENDER

Sealed Tender/Quotations are invited from reputed Firms/Agencies/Manufacturer /Authorized Dealer **FOR SUPPLY AND INSTALLATION OF FUME HOOD FOR PHYSICS DEPARTMENT AT NIT, SILCHAR** along with Earnest Money Deposit (EMD) @2% of the total bid value in the form of Demand Draft in favour of "The Director, NIT, Silchar". Payable at NIT silchar. No Interest shall be paid on EMD.

Detail specification of the item/items is given in (Annexure – A).

Tender documents can be obtained from Purchase Section, NIT Silchar or may be downloaded from our website www.nits.ac.in or <http://tenders.gov.in> .The cost of tender document is **Rs. 5,00.00** (non-refundable) to be submitted through cash or DD in favour of The Director, NIT, Silchar. Payable at NIT Silchar. The last date for submission of Tender documents will be **18.10.2016** up-to **01.00 PM** and tender will be opened on the same date at **03.30 PM** at PHYSICS DEPT, NIT SILCHAR

The offers without Cost of Tender & Earnest Money Deposit (EMD) shall be outright rejected.

Director, NIT Silchar reserves the right to extend the date, or cancel the tender, accept or reject any/all quotations or not to purchase all or any of the items.

Quotations are to be sent/submitted in sealed covers addressed to:-

**The Purchase Officer
National Institute of Technology, Silchar
788 010 (Assam)**


REGISTRAR, NIT SILCHAR



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Credential Criteria:

- The bidder should have provided similar nature of services to IITs/NITs/Govt. Departments/Semi Govt. Departments/PSU/Educational Institutions of National Importance etc. during last three years. Duly certified copies are to be enclosed.
- Quotations are to be submitted in properly sealed covers. Also, the address of the firm submitting the quotation must appear distinctly on sealed covers and super scribed as
 - "QUOTATION FOR SUPPLY & INSTALLATION OFFOR
DEPARTMENT OF NIT SILCHAR.
 - VIDE TENDER REF NO NITS/PS-....., DATED.....
DATE OF OPENING

[The bid may be summarily rejected & returned to the bidder if the sealed envelope containing the quotation is not super scribed as above].

- **Genuine Pricing** (Both foreign & indigenous) :Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this particular item has been sold, particularly to IIT/Institutes and other Government Organization. Copy of the latest price list for the quoted item, applicable in India, must be enclosed with your offer.
- **No Part Delivery** : Part shipment for any items will not be allowed.
- **Termination for default** : Default is said to have occurred -
- If the supplier fails to deliver any or all of the items/services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Silchar, the Institute may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable.

TERMS & CONDITIONS:

1. The bidding agency should be reputed firm and having all necessary certificates, viz. VAT registration certificate, PAN for Income Tax, registration Sale Tax Clearance Certificate, Authorized Dealership/Distributorship certificate, etc. The photocopies of all the certificates should be attached with the tender.
2. The items being quoted should be of Original Manufacturer and no non-standard item should be quoted. All detailed specifications with make & model no. of the items accompanied by proper leaflets should be clearly mentioned and attached with the offer. In case of proprietary or patented item, necessary certificates in support of the same should be attached. The bidder must submit the Compliance Statement and Deviation Statement of technical specification.
3. **The rate quoted must be both in words and figures and F.O.R. / Destination National Institute of Technology, Silchar inclusive of packing, forwarding etc. Octroi, surcharge, insurance, Installation and any other charges.** Educational discount, if any should be indicated clearly. Tenderer(s) may note that the Government of India exempts this Institute from paying custom duty/excise duty on selected items. Necessary documents will be furnished if required on demand by the Tenderer(s). **Rate quoted for any other destination shall not be accepted.**
4. Assam Sales Tax must be quoted as extra in the tender, wherever applicable.

5. NIT Silchar will not provide educational concession Central Sales Tax Form'D', wherever applicable.
6. Payment shall be made only after receipt and installation of the materials/articles in good and working conditions as per specifications and after satisfactory installation and commissioning of the equipment/machinery/accessories by the department.
7. Manufacturer's/Company's name, it's trademark should be mentioned in the Tender and illustrative leaflets giving technical particulars, etc. should be attached in the tender.
8. Tenderer(s) registered with the State/Central Government must quote his registration numbers, if any, and submit a Xerox copy of registration along with the tender.
9. Guarantee/Warranty period offered for the tendered item is to be clearly specified.
10. The rates to be quoted by the agency should be valid for a period of six months from the date of placement of order.
11. The quantity against each item mentioned in the tender may vary according to the actual requirements at the time of placing Purchase Order.
12. It is not binding for the bidding agency to quote for all the items.
13. **Each bidder should clearly specify that the bidder agrees to abide by the conditions of this tender document on their printed letter head duly sealed & signed by an authorized person.**
14. **Bid Price**
 - a) The contract shall be for the full quantity as described above. Corrections, if, shall be made by crossing out, initialing dating and rewriting.
 - b) **The bidder should quote the total price for each item inclusive of packing and forwarding, all duties, levies, insurance, installation, any other charges, etc. Only taxes & (discount if any) should be mentioned separately.**
 - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
15. Each bidder shall submit only one quotation.
16. All necessary documents shall be furnished along with the bid.
17. **Validity of Tenders/Quotations:** Tenders/Quotations shall remain valid for a period not less than 6 months after the deadline date specified for submission of tender.
18. **Packing**
 - a) The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
 - b) The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements.
19. **Evaluation of Quotations :**

NIT Silchar will evaluate and compare the quotations determined to be substantially responsive i.e. which

 - a) are properly signed
 - b) conform to the terms and conditions, and specifications.

20. Award of contract:

NIT Silchar will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- a) The bidder whose bid is accepted will be notified of the award of contract by the NIT Silchar prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- b) Normal commercial warranty/guarantee shall be applicable to the supplied goods.
- c) the goods (both indigenous & imported) should be insured against theft, loss or breakage during transit till destination.
- d) Upon delivery of goods, the supplier shall submit Suppliers Invoice, Insurance certificate, Warranty Certificate, or any other document.

21 Acknowledgement of the Purchase Order: The supplier shall give an acknowledgement of the Purchase Order within 15 days of the date of the Purchase Order. In case, the supplier fails to acknowledge the Purchase Order within the stipulated time, the Institute is at liberty to cancel the Purchase Order.

22. No alternations in tender forms shall be made by the bidder and if any such alteration is made, the tender is liable to be rejected.

23. **Delivery Schedule and Penalty for Delay :** Delivery schedule shall clearly be indicated in the quotation submitted by the supplier. **Penalty at the rate of 0.5% or part thereof of the order value per week, subject to a maximum of 2.5% will be imposed for delayed delivery and installation.**

24. Demurrages and penalty, if any, paid by the supplier shall not be borne by the Institute.

25. The tenders submitted shall clearly mention the name of the firm/person in whose favour the purchase order is to be placed.

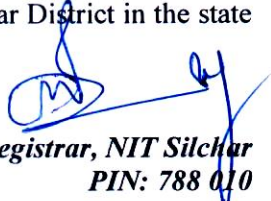
26. Contact details of the person for all post sales/installation maintenance support should clearly be given with **Name & Designation, Phone No, Fax No, Mobile, E-mail and official address.**

27. National Institute of Technology Silchar is not liable for non-receipt of the tender forms in time due to wrong address/ any delivery delay of the mail service provider/ force majeure. Tender documents received after the last date and time for receiving tenders will be summarily rejected.

28. **Successful bidder shall give a performance security @5-10% in the form of Bank Guarantee.** The performance security shall be furnished after the order for supply is placed and before the final payment.

- The proceeds of the Performance Security shall be payable to the purchaser as compensation for any loss resulting from the suppliers failure to complete its obligations under the contract.

29. All legal disputes shall be under the jurisdiction of the Silchar Courts of Cachar District in the state of Assam.


Registrar, NIT Silchar
PIN: 788 010

DECLARATION

I / We hereby declare that no case is pending with the police/ court against the proprietor/ firm/ partner or the company (Agency). Also I /We have not been suspended / blacklisted by any PSU / Government Department / Financial Institution / Court.

(Signature & seal of the contractor)

Place:

Date:

NO DEVIATION CERTIFICATE

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions of this tender and we do not have any deviation to this tender enquiry. We hereby undertake and confirm that we have understood the scope of work properly and shall be carried out as mentioned in this tender enquiry.

(Signature & seal of the contractor)

Place:

Date:

BIDDERS DETAILS

Name of the Contractor /Party/ Firm

:

Name of Authorized Representative

:

Phone Nos.

:

Mobile Nos.

:

Fax No.

:

E-Mail Address

:

Web Site Address (If Any)

:

(Signature & seal of the contractor)

Place:

Date:

CHECK-LIST (TECHNICAL BID)

SUMMARY OF COMPLIANCE TO REQUIREMENT OF TENDER

S. No	Description of Requirement	Yes / No / NA	Page No.
1.	EMD @2% of total bid value in the form of Demand Draft in favour of "Director, NIT Silchar" in a separate envelope		
2.	Copy of Manufacturer / Authorized Dealership / Authorized Distributorship Certificate		
3.	Copy of the PAN card.		
4.	Copy of VAT registration certificate		
5.	Copies of previous work order of similar work		
6.	Declaration enclosed		
7.	No Deviation Certificate		
8.	Bidder's details		
9.	Technical Specification		
10.	NSIC/SSI Certificate where applicable		
11.	All the pages of tender document have been signed		
12.	Sealed envelope of price bid submitted.		

(Signature & seal of the contractor)

Place:

Date:



Technical Specification

Laboratory fume hood (5 ft)

Quantity Required: 01

Overall Dimensions with base cabinet: 1500 mm W X 900 mm D X 2400 mm H

Fume Hood dimensions: 1500 mm W X 900 mm D X 1600 mm H

Base Cabinet dimensions: 1400 mm W X 540 mm D X 700 mm H

Inside Fume Hood working volume: 1220 mm W X 650 mm D X 1155 mm H

Bed size: 1220 mm W X 650 mm D

Technical specification of 5 Feet Regular fume hood (1 no.)

Sl. No.	Specification	Description
1	Design Basic	American Design Standard : ASHRAE 110-1995 All test Including "Tracer gas containment test" Passed. European Design Standard : EN 14175-2003 Inner Plane Containment test Passed.
2	Design Structure	Aerodynamic, Floor mounted
3	Airflow Type	Auto Bypass Type (for non-AC labs)
4	Colour combination	White and grey
5	Construction (Exterior)	Pre-treated with 8 tank chemical processes and powder coated with highly chemical resistant epoxy Colors having dry film thickness of 70 to 80 microns. Passes all conformity performance tests as per IS standards.
6	Front Top Panel	Easily open able hinged Top Panel for easy access to Flow Control Valve and Electrical Lighting fixtures for maintenance.
7	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.
8	Construction (Interior)	Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels Made out of durable special material integral work walls. (6 mm thick PRL). ASTM flame spread index < 25
9	Active kinetic exhaust system	Interstitial 3-point suction system (for light, normal & heavy fumes) with baffle to ensure smooth and immediate exhaust of fumes.
10	Worktop	Chemical resistant splash & spillage proof dished ' Jet black Granite ' worktop. (18 to 20mm thick).
11	Airfoil	Aerodynamic, SS 304 Powder coated (1.2mm) airfoil mounted on the worktop.
12	Sink, Water tap with drain arrangement	Worktop will have sink sealed with silicon sealant for drainage with water tap on left back side of worktop. Sink will have a trap for waste collection. · Oval shaped 100 mm X 200 mm sink.
13	Sash (Shutter)	Vertical rising counter-balanced sash. Toughened Float Glass sash (5 mm thick). Smooth and light sash operation. Clear open able height = 750 mm. Impact Resistance of the sash (Toughened Glass) is four times higher than other sash materials (like Safety Glass and Polycarbonate). Breaking Stress value for fully toughened glass (Tempered Glass) = 24,000 psi.
14	Wet & Dry Service fittings	Remotely operated colour coded Needle Valves for fine control over utilities (as per DIN 12920 norms) total 4 nos. service valves with PU plumbing with 6mm internal dia, withstands up to 15 kgf pressure and brass fittings for gas connections. (2 LHS + 2 RHS) · 1 for Raw water (PU) · 1 for Nitrogen(PU) · 1 for Vacuum(Teflon) · 1 for Compressed Air (PU)

15	Illumination	Fluorescent light (40 watt, 2 Nos.) with Vapour-proof fitting for proper illumination. Intensity 10pprox. 400 <i>lux</i> at worktop level.
16	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.
17	Electrical Utilities	4 nos. electrical sockets 'North-West' make (230 V, 6/16 A, 50 Hz), 4 nos. 'North-West' make MCBs with blower NO/NC switch with built –in starter & light switch on front fascia. Cables & wires 'Fire Retardant' grade.
18	Cable entering port	For easy access of cables from fume hood to electrical sockets.
19	Chemical Storage Base Cabinet	Base cabinet will be ready to receive the fume hood at its top. It will have following features: 1) Completely made from 1mm thick GI sheet with highly corrosion resistant epoxy powder coating, 60-80 microns thickness. 2) Cabinet integral work walls will be Special chemical & heat resistant, smooth finish, easily cleanable panels made out of durable PRL sheets. 3) Two exhaust ports connected to the fume hood exhaust system internally. 4) One removable horizontal partition to store chemicals. 5) PP Trays for chemical storage. 6) Cabinets on castors. 7) Roller catch of "HAFELE" – Germany" Make for the Base Cabinet doors. 8) Double skin hinged doors with hinges made of Polyamide for Chemical resistance and hassle free operations in the corrosive lab atmosphere. 9) Fully open able back panels for service line access.
20	Level adjusting screws	Made of SS Bolts to adjust the fume hood level by ± 10 mm.
21	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.
22	Flow control valve	To regulate airflow.
23	Noise Level	< 70db at 1 meter from fume hood.

CENTRIFUGAL BLOWER: (For air suction in Fume Hood) - 1No.

Silent PP + FRP high efficiency remote blower, consisting of continuous rating motor and chemical resistant impeller. It satisfies international safe velocity norms.

‘DUCTING:

Chemical resistant PP + FRP (3mm + 2mm) rigid & flexible ductwork from Fume hood to exhaust stack point with weatherproof canopy. Total ducting with horizontal, vertical members, flanges, bends, bracketed supports and gooseneck exhaust stack.

TESTING:

All fume hoods are “factory tested” as per **ASHRAE110:1995** face velocity norms. Also, “Onsite Validation” will be carried out to ensure working of fume hood as per international norms. “tracer gas containment testing’ can be carried out only in

Sl. No.	Specification	Description
1	Construction	SISW type, chemical & heat resistant PP + FRP blower with aerodynamically balanced PP impeller, with drain plug
2	Air Suction Capacity	480 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern.
3	Motor	Crompton / LHP/Other Reputed’ make, 1 HP Motor 3 Phase TEFC, IP 55, Class F, continuous rating. As per IS 325.
4	Drive	Direct Drive

TECHNO-COMMERCIAL BID

NAME OF THE WORK : Supply and Installation of Fume Hood for Physics Department			
TENDER NO. : NITS/PS-425/Phy/Fume Hood/16, dtd. 14.09.2016, LOS : 18.10.2016			
Sl. No	Name of Equipment with Specification & Qty.	Qty.	Amount (INR)
1	Laboratory fume hood (5 ft.) <u>Quantity Required: 01</u> (Specification as per Annexure-A)		
TOTAL AMOUNT			
TAX (if any)			
Other Charges (if any)			
(AMOUNT IN WORDS)			

I/ we have gone through all the Special & General Conditions and the contractor's obligations enclosed with this tender document and agree to abide by these.

Note: In case of discrepancy in rates between figure & words the higher will be taken for evaluation of bid and lower value will be taken for award of work.

(Signature & seal of the contractor)

Place:

Date: