

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF CHEMISTRY

POST-SRINIVASNAGAR, MANGALORE – 575 025 (D K)

Phone: (0824) 2474000.

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Website: <http://www.nitk.ac.in>



TENDER DOCUMENT

Tender Notification No: NITK/CY/LV/FH/OH-35/2021-22

Date: 24/01/2022

Name of Goods	Fume hood
The estimated amount put to Tender	₹ 2.5 lakh (including GST)
Time for Supply of item	4 weeks
Bid Document Download Start Date	24/01/2022, 5.00 p.m.
Clarification Start Date	24/01/2022, 5.00 p.m.
Clarification End Date	01/02/2022, 03.00 p.m.
Online Bid Submission Start Date	24/01/2022, 5.00 p.m.
Online Bid Submission End Date	08/02/2022, 03.00 p.m.
Address for Submission of Tender	https://eprocure.gov.in/
Opening date of technical bid	09/02/2022, 03.00 p.m.
Contact Details of Buyer	Dr. Lakshmi Vellanki Assistant Professor Department of Chemistry, NITK, Srinivasnagar, Mangalore- 575025, DK Karnataka, Phone No:+91-9550257221, 0824-2473203 Email: lakshmi.vellanki@nitk.edu.in

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**

(Institute of National Importance Under Ministry of Education, Govt. of India)

POST-SRINIVASNAGAR, MANGALURU – 575 025

Phone: (0824) 2474 000.

Email: registrar@nitk.ac.in

Fax: (0824) 2474 033/ 2474 039

Website: <http://www.nitk.ac.in>

Tender Notification No: NITK/CY/LV/FH/OH-35/2021-22

Date: 24/01/2022

NOTICE INVITING e-TENDER (e-NIT)

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an Institute Of National Importance Under Ministry of Education, Govt of India imparting Technical Education and engaged in Research Activities.

Online Tender (<https://eprocure.gov.in/>) is invited for the following items in **two cover systems** (i.e., Technical bid and financial bid) subject to the following terms and conditions, from the reputed manufacturers or its authorized dealers so as to reach this office on or before scheduled date and time. The tender (Technical bid) will be opened online on the due date as mentioned. Bidders can verify their bid status through the online portal <https://eprocure.gov.in/>. The financial bid of only such bidders whose technical bid is accepted shall be opened on the same day or later pre-informed date.

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Contact Details of Buyer	Dr. Lakshmi Vellanki Assistant Professor Department of Chemistry, NITK, Srinivasnagar, Mangalore- 575025, DK Karnataka, Phone No:+91-9550257221, 0824-2473203 Email: lakshmi.vellanki@nitk.edu.in

**Sd/-
HOD**

SECTION 1 A: Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submit their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

<https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "**Online bidder Enrolment**" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email addresses and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra, etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords, etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the documents that need to be submitted. Any deviations from these may lead to the rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with the black and white option which helps in reducing the size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates, etc.) has been provided to the bidders. Bidders can use the "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for the bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in the My Documents space, this does not automatically ensure these Documents being part of the Technical Bid.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as "offline" to pay the tender fee/ EMD (Bid Security Declaration) as applicable and enter details of the instrument.
4. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as the name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, the opening of bids, etc. The bidders should follow this time during bid submission.
6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening.

The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system-generated symmetric key. Further, this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. The bid summary has to be printed and kept as an acknowledgment of the submission of the bid. This acknowledgment may be used as an entry pass for any bid opening meetings.
10. The off-line tender shall not be accepted and no request in this regard shall be entertained whatsoever.
11. All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
12. Any order resulting from this e-tender shall be governed by the terms and conditions mentioned therein.
13. No deviation to the technical and commercial terms & conditions are allowed.
14. The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of the bid(s).

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal, in general, may be directed to the 24x7 CPP Portal Helpdesk.

SECTION 1 B: INSTRUCTION TO BIDDER (ITB)

1. **The bid should be submitted in two covers System-Technical Bid and Financial Bid** online through portal <https://eprocure.gov.in/>:

1.1 **Envelope No.1 – Technical Bid:** The agencies should give details of their technical soundness and provide a list of customers of a previous supply of similar items to Universities, Institutes, or Government Departments/ Undertakings/ public sectors with contact details. The details of the Bidder/ profile should be furnished along with a copy of all related documents. This envelope should be uploaded **online tender** (<https://eprocure.gov.in/>) and digitally signed as **“Envelope No. 1 – Technical Bid i.e. Checklist (Excel format).**

1.2. **Document to be scanned and submitted by uploading in the technical bid:**

- a) The Bidder should possess a Licence certificate for the manufacture /supply of the item.
- b) List of Owner/partners of the firm and their contact numbers
- c) The Bidder should possess an Income-tax PAN Number.
- d) The Bidder should possess a valid GST registration number.
- e) Catalogue of the Product with detailed product specifications.
- f) List of Service Centres
- g) List of customers with contact details.
- h) The average annual turnover should not be less than 30% of the estimated cost put to tender/Tender for the job work. A copy of the Balance sheet, Profit & Loss A/c., Trade or Manufacturing A/c for the last 3 years should be enclosed
- i) **Warranty Period Offered for the tendered item to be specified. If the Warranty period is not conforming to the schedule of requirements given in section 3 of the document, the bid is liable to be treated as non-responsive and rejected.**
- j) **The contract form given in section 5 needs to be submitted.**
- k) **EMD must be in the form of a “Bid Security Declaration” declaring disqualification of his bid in case the bid is withdrawn or modified by him during the bid validity period. The format of ‘Bid Security Declaration’ is available in the Tender document. ‘Bid Security Declaration’ duly signed be uploaded while submitting the e-bid. Tenders received without the ‘Bid Security Declaration’ will be rejected (except in the case of NSIC/MSME enlisted bidders (under relevant NIC & Activity) /Start-ups).**
- l) The bidder needs to comply with restrictions under rule No 144 (xi) of GFR (General Financial Rules) 2017 and the clause pertaining to Dept of Expenditure (DOE) Public Procurement Division Order (Public

Procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 and 24.07.2020). In this Connection Bidder has to submit Self Certification (as per Annexure A or B), depending on the status of the bidder.

The above documents should be furnished in the technical bid envelope.

2. Envelope No.2 – Financial bid: The agencies should submit their financial bid as per the (.xlxs) format is given in Section 4 of the Notice Inviting Tender in this cover. The rate should be quoted in figures and upload online bid. This envelope should upload online only as “Envelope No. 2 – Financial Bid”.

Both Envelope No. 1 and 2 should be uploaded through the online portal (<https://eprocure.gov.in/>).

3 The tender will be accepted only from the **manufacturers or its authorized supplier**.

4 The Institute **reserves the right to visit the factory** before or after the issue of supply order to satisfy itself regarding the quality of production. In case of any remarks /default noted, the Company will be debarred from competing for bids in our esteemed Institute for a period of one year from the date of occurring of such breach

5 **The Financial Bid shall be in the format of the Price Schedule given in Section 4. The Contract form as per the format is given in section 5 shall be submitted. The incomplete or conditional tender will be rejected.**

6 Details of the item to be carried out, approximate quantity and the specifications are mentioned in “**Section 3**” appended to this Notice Inviting Tender.

7 **The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.**

8 The Institute **reserves the right to cancel or reduce the quantity** included in the schedule of requirements at any time after acceptance of the tender with a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.

9 **Performance Security of 3 % of the contract value in terms of Bank Guarantee by scheduled banks shall be given by the successful bidder for the total period of Warranty. The validity of the Performance Security must cover the warranty period plus two months.**

10 **The validity of bids:** The rate quoted should be valid for a minimum of 90 days. No claim for escalation of the rate will be considered after opening the Tender. The bid validity date will start from the last date of bid submission (Including date corrigendum)

11 **Clarification of Tender Document:** A prospective bidder requiring any clarification of the Tender Document may communicate to the contact person given in this notice inviting tender. The contact person will respond to any request for clarification for the Tender Document received not later than 5 working days prior to the last date for the receipt of bids

- 12 Amendment of Tender document:** At any time prior to the last date for receipt of bids, Institute may for any reason, whether at its initiative or in response to a clarification requested by a prospective bidder, modify the Tender document by an amendment.
- 13 Institute may at its discretion extend the last date for the receipt of bids.**
- 14 The bids shall be written in the English language and any information printed in another language shall be accompanied by an English translation, in which case for the interpretation of the bid, the English translation shall govern.
- 15 The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.
- 16 The bidder should give the following declaration while submitting the Tender.
- 17 Relaxation for Start-up, MSEs, Make in India will be as per GOI norms.
- 18 Any other details required may be obtained from the contact person (Buyer) given in the Notice Inviting Tender during office hours.
- 19 Estimated price put up in tender is inclusive of all.
- 20 Abnormally quoted low bid will be liable for rejection as per the OM No.F.12/17/2019-PPD of Department of Expenditure, Ministry of Finance dated 6th February 2020.**

DECLARATION

I/we have not tampered with/modified the tender forms in any manner. In case, if the same is found to be tampered/modified, I /we understand that my/our tender will be summarily rejected and full Earnest money deposit will be forfeited and I /we are/are liable to be banned from doing business with NITK, Surathkal and/or prosecuted.

Signature of the Bidder : _____

Name and Designation : _____

Business Address : _____

Place:

Seal of the Bidder's Firm

Date:

SECTION 2: CONDITIONS OF CONTRACT

1. The supplier should quote the rate for Door Delivery (FOR).
2. The Rate should be quoted in INR only.
3. No custom duty exemption certificate will be provided from the institute.
4. NITK is a DSIR recognized research organization and hence eligible for concessional / exempted rate of GST @5% (For indigenous items).
5. The rate quoted should be on a unit basis. Taxes and other charges should be quoted separately, duly considering exemptions if any.
6. The rate quoted should be inclusive of Testing, commissioning and installation of equipment and Training.
7. Payment: No advance payment will be made. Payment will be made only after the supply and installation of the item in good and satisfactory condition and receipt of performance security by the supplier.
8. Guarantee and Warranty period should be specified for the complete period conforming to section 3 of this tender document.
9. The period required for the supply and installation of the item should be specified conforming to section 3 of this tender document.
10. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

SECTION 3: SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

[To be filled up by the Department / Center of NITK, Surathkal]

Item(s) Name to be procured : Fume hood

Type (Equipment / Software / Furniture / Others) : Ventilation system

Brief Specifications of the Item(s) : **As per Annexure "C"**
(Attach Additional Sheet if necessary)

Quantity : 1

Any other details / requirement :

Warranty Period required : 1 year

Delivery Schedule expected
after release of Purchase order
(In Weeks) : 4 weeks

Performance Security to be given
by Successful Bidder after release of
Purchase Order (in Rupees) : 3% of PO value

SECTION 4 - PRICE BID

[To be used by the bidder for submission of the bid]

Tender Inviting Authority:

Name of Work/Goods/Services:

Contract No:

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Number	TEXT #	NUMBER #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER #	TEXT #
Sr. No.	Item Description	Quantity	BASIC RATE in Figures To be entered by the Bidder in Rs. P	Cost	GST rate in %	GST Amount	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1								
Total in Figures								
Quoted Rate in Words								

SECTION 5: CONTRACT FORM

[To be provided by the bidder in the business letterhead]

1. (Name of the Supplier's Firm) hereby abide to deliver them by the delivery schedule mentioned in section 3 tender document for the supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in the tender document without any defects and deviations.
3. Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

Signature of the Bidder : _____

Name and Designation : _____

Business Address : _____

Place:

Seal of the Bidder's Firm

Date:

BANK GUARANTEE 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 MANGALORE OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT MANGALORE OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT MANGALORE. BONDS ISSUED BY COOPERATIVE BANKS ARE NOT ACCEPTED.)

To,
Director,
National Institute of Technology Karnataka,
Srinivasnagar P.O., Surathkal
Mangalore – 575025

LETTER OF GUARANTEE

WHEREAS National Institute of Technology Karnataka (Buyer) has invited Tenders to 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 **“Director, National Institute of Technology Karnataka, Surathkal”** in the form of Bank Guarantee for Rs (**3% (Three percent) of the purchase value**) and valid till **one year or up to warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 30 (Thirty) days from the date of Order Acknowledgement 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 National Institute of Technology Karnataka, Surathkal on demand and without protest or demur Rs (Rupees.....).

This Bank further agrees that the decision of the National Institute of Technology Karnataka, Surathkal (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in the 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 National Institute of Technology Karnataka, Surathkal (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 National Institute of Technology Karnataka (NITK) Surathkal 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 Bank & Address:
Date:

Instruction to Bank: Bank should note that on the expiry of the Bond Period, the Original Bond will not be returned to the Bank. The bank is requested to take appropriate necessary action on or after the expiry of the bond period.

“BID SECURITY DECLARATION”

(Form of “Bid Security Declaration” - To be submitted in the **Letterhead of the Bidder**)

To:
The Director,
National Institute of Technology Karnataka, Surathkal.
Post-Srinivasnagar, Mangaluru – 575025.

Sir,

Sub.: Submission of Bid Security/ EMD Declaration – Reg.

Ref.: Tenders invited for “-----” vide NIT No. -----

I/ We declare that:

1. I/ We understand that according to the tender document, bids must be accompanied by EMD or a Bid Security Declaration. Accordingly, I/ We have opted for submitting this Bid Security Declaration.
2. I/ We declare that I / We will not withdraw our bid during the Bid validity period or make any modifications to my/ our bid.
3. I/ We understand that if I/ we withdraw my/ our bid or modify the bid, I/ we will be automatically suspended from being eligible for bidding and also will be debarred from competing for bids in your esteemed Institute for a period of one year from the date of occurring of such breach.
4. / We understand that if I/ We fail to furnish the Performance Guarantee before the deadline specified in the LoA / Lol, my/ our bid will be automatically cancelled and I/ We will also be debarred from competing for bids in your esteemed Institute for a period of one year from the date of occurring of such breach.
5. I/ We further understand that if I/ We fail to sign the contract in case the work is awarded to me/ us or fail to furnish the Performance Guarantee, my/ our bid will be automatically cancelled and I/ We will also be debarred from competing for bids in your esteemed Institute for a period of one year from the date of occurring of such breach.
6. I/ We understand that this Bid Security Declaration will automatically expire if we are not the successful bidder/ upon the expiry of the bid validity period.
7. I/ we declare that I am/ we are authorized to sign this declaration.

Signature of the Bidder with seal

(Compliance to be submitted in the bidder's letterhead)
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

Item Name:	
Enquiry No.:	

We M/s. _____ (name of the bidder company) have read the clauses pertaining to the Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country that shares a land border with India.

We hereby certify that **we are not from such a country** and eligible to be considered for this tender.

(Note: Non-compliance of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by NITK)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of an authorized representative of the bidder)

**(Compliance to be submitted in the bidder's letterhead)
(as applicable)**

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

Item Name:	
Enquiry No.:	

We M/s. _____ (name of the bidder company) have read the clauses pertaining to the Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.

We are from such a country which shares a land border with India & have been registered with the Competent Authority as specified in the above-said order. We hereby certify that we fulfill all requirements in this regard and are eligible to be considered.

Evidence of valid registration by the Competent Authority is attached.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by NITK)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of an authorized representative of the bidder)

Detailed Technical Specifications

Laboratory Fume Hoods will be utilized as primary means of protection from inhalation of hazardous vapors during handling of chemicals in non-AC laboratories. Fume hoods should be properly functioning to ensure the health and safety of laboratory personnel from hazards of chemical vapors and other harmful airborne substance. So, the fume hood should have been designed as per international standard and should pass international tests for its quality.

(a) FUME HOOD

Dimension	1800L × 900W × 1500H in mm
Bed Size	1575 x 600 in mm
Carcass Constructions	The cabinet constructions should be chemically inert flame proof WPC (Wood Plastic Composite) panel. The panel should be of thickness 17mm. The edges must be scaled with 0.8mm PVC edge tape. (Rehau or equivalent). The cabinet should be of weld less constructions & free of screws. Material used should have chemical and fire resistance, smooth finish, easily cleanable and good strength.
Shutter & Drawers Fronts	The shutter and drawers' fronts should have chemically resistant PVC thermo Foil face E1/E2 Grade core material. The urethane acrylic coating on top of thermo foil should be resistant to deformation and scratches PVC .
Door	Single, vertical sliding, concealed type transparent door, balanced with counter weight and wire rope etc.
Powered by	Capacity 1HP, 2800 RPM, TEFC 3 phase direct drive of reputed make Motor of continuous rating as per IS.
Ducting	Rigid ducting of FRP of 200mm dia. 35-40 feet 4 mm thick rigid FRP pipe should be provided with suitable rain-hood. Chemical resistance FRP duct, rigid pipe from fume hood to exhaust point with suitable rain hood with sufficiently good thickness. Exhaust port design should ensure that the fumes are exhausted smoothly without any turbulence and ensure low noise level.
Baffle	A stable non-adjustable with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle is to be placed out from the back linear and to be removable for cleaning.
Impeller	Dynamically balanced FRP Impeller.
Baffled by	3 mm thick FRP sheet.
Centrifugal Blower	Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower is to be designed to give a space velocity at

	safe working height as per the internal space velocity norms (ANSI). The exposed face velocity at open sash is 100 FPM. The blower body should be FRP UV treated high density and chemical resistant and is to be mounted on a metallic stand. High efficiency centrifugal power with chemical resistance should be there. Sound level: Less than 70 db at 1 meter distance from fume hood.
Casing	6 mm thick FRP Bisphenol 'A' fumarate Resin.
Coupling	Direct
Sash	The sash should be of glass with vertical raising frame. The bottom of the sash frame should have a full length handle. The sash should have counter operation. The glass panel should be 5mm toughened glass. Vertical rising sash should be counter-balanced with pulley and count weight system. Smooth and light sash operation is essential. Good impact resistance toughened /tempered glass of sufficient thick with good breaking resistance is to be used and clear openable height should be there.
Suction Expected	800 - 1000 cfm.
Color	Preferably IVORY/BLUE.
Flooring	18 mm thick dished Black Granite top with skirting should be provided. Granite should be resistant to splash and spillage proof.

AMENITIES (needed):

Lighting	1 No. of fluorescent tube light of 20 watt with vapor-proof fitting for proper illumination should be provided.
Electrical Arrangement	The hood super structures should be fully wired (good grade). It should also have 4 No's. electrical sockets and switches of (230V, 15/5A, 50Hz) of reputed make. MCBs with blower switch carrying built in starter and light switches in front side.
Cable Entering port	For easy access of cable of fume hood to electrical socket. Cable and wires should be fire retardant grade.
Sink & Water Tap	1 No of FRP Sink (12" × 10") of high quality with single way water tap should be provided
Knobs	Nitrogen gas connection, vacuum and water supply knobs on left side of hood
Cabinets below the hood	Cabinet with horizontal shelves

Note:

1. The equipment will be inspected at NITK as per international standard test procedures to ensure proper ventilation. It also includes large volume smoke visualization test and salt spray test for metallic parts.
2. The operation and maintenance manual is to be provided at the time of installation.

3. The bidder or its parent company should have SEFA (Scientific Equipment's and Furniture Association) membership certificates for last three years on a continuous basis.
4. The bidder or its parent company should have a well-established in-house manufacturing unit for the lab. fume hood, quality management system as per international standards providing the products and services on the continuous basis at least for the last 5 years. Manufactures should have good modern and sophisticated facility having strict quality checks at every level.
5. The hoods must confirm to regulations and standards of ASHRAE 110:1995 (American Society of Heating, Refrigerating and Air Conditioning Engineers, Method of Testing Performance of Laboratory Fume Hoods).

The bidder should have carried out one similar work of value not less than Rs. 20 lakhs, preferably at Central Government Educational/Research Institutes/NIT's/IITs.