Notice Inviting Quotation (E-Procurement mode) कोटेशन को आमंत्रित करने की सूचना (इ-प्रोक्योर्मेंट मोड)

INDIAN INSTITUTE OF TECHNOLOGY DELHI भारतीय प्रौद्योगिकी संस्थान दिल्ली HAUZ KHAS, NEW DELHI-110016 होज ख़ास, नई दिल्ली -110016

Dated/ दिनांक: 28/08/2019

Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/BCHM(SP-2486)/2019

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी दिल्ली निम्नलिखित मदों की खरीद की प्रक्रिया में है।

Details of the item आइटम का विवरण	SUPPLY AND INSTALLATION OF FUME HOODS, ISLAND BENCHES, WALL BENCHES, CHEMICAL STORAGE CABINETS, SOLVENT CABINETS, GAS STORAGE CABINETS ETC.
Earnest Money Deposit to be submitted बयाना जमा करने के लिए जमा राशि	NIL
Warranty वारंटी अवधि	3 Years/3 साल
Performance security निष्पादन सुरक्षा	NIL
Delivery Schedule	4 Months (Maximum)

Tender **Documents** downloaded from Central Public Procurement may be http://eprocure.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'. निविदा दस्तावेज केन्द्रीय सार्वजनिक खरीद पोर्टल http://eprocure.gov.in/eprocure/app से डाउनलोड हो सकते हैं ई-प्रोक्योरमेंट में पंजीकृत नहीं होने वाले इच्छ्क बोलीदाताओं को वेबसाइट http://eprocure.gov.in/eprocure/app के माध्यम से भाग लेने से पहले पंजीकरण करना चाहिए। पोर्टल नामांकन मुफ्त है बोलीदाताओं को सलाह दी जाती है कि 'ऑनलाईन बोली के लिए निर्देश' पर दिए गए निर्देशों के माध्यम से जाने की सलाह दी जाए।

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website http://eprocure.gov.in/eprocure/app as per the schedule given in the next page.

निविदाकर्ता वेबसाइट पर निविदा दस्तावेज का उपयोग कर सकते हैं (एनआईसी साइट में खोज के लिए, कृपया निविदा खोज विकल्प और 'आईआईटी' टाइप करें। उसके बाद, सभी आईआईटी दिल्ली निविदाओं को देखने के लिए "गो" बटन पर क्लिक करें) उपयुक्त निविदा का चयन करें और उन्हें सभी प्रासंगिक सूचनाओं से भरें और वेबसाइट पर http://eprocure.gov.in/eprocure/app पर पूरा निविदा दस्तावेज ऑनलाइन जमा करें। अगले पृष्ठ में दिए गए कार्यक्रम के अनुसार

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

कोई मैन्युअल बोली स्वीकार नहीं की जाएगी। सभी कोटेशन (तकनीकी और वित्तीय दोनों को ई-प्रोक्योरमेंट पोर्टल में जमा करना चाहिए)

SCHEDULE

Tender Type (Open/Limited/EOI/Auction/Single/Global) Tender Category (Services/Goods/works) Goods Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell) Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems) Source of Fund (Institute/Project) Is Multi Currency Allowed YES Date of Issue/Publishing Document Download/Sale Start Date 28/08/2019 (11:00 Hrs) Document Download/Sale End Date 25/09/2019 (15:00 Hrs) Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee EMD Rs. NIL (For Tender Fee) Rs. NIL (For Tender Fee) Rs. NIL (For Tender Fee) Rs. NIL (For EmBD) To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code SBINNOBO107 MICR Code SINNOBO107 MICR Code SINNOBO107 This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4)	Name of Organization	Indian Institute of Technology Delhi
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell) Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems) Source of Fund (Institute/Project) Is Multi Currency Allowed Page 18	Tender Type	Open
Service/ Buy/ Empanelment/ Sell) Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems) Source of Fund (Institute/Project) Budget Code PLN12/02 Is Multi Currency Allowed YES Date of Issue/Publishing Document Download/Sale Start Date Document Download/Sale End Date 28/08/2019 (11:00 Hrs) Document Download/Sale End Date 25/09/2019 (15:00 Hrs) Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee EMD Rs. NIL (For Tender Fee) Rs. NIL (For Tender Fee) Rs. NIL (For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBINNB547 (This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4)	Tender Category (Services/Goods/works)	Goods
Source of Fund (Institute/Project) Budget Code PLN12/02 Is Multi Currency Allowed YES Date of Issue/Publishing Document Download/Sale Start Date Document Download/Sale End Date 28/08/2019 (11:00 Hrs) Document Download/Sale End Date 25/09/2019 (15:00 Hrs) Date of Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee EMD Rs. NIL. (For Tender Fee) Rs. NIL. (For Emby D) To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank is State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBINNBB547 (This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4)		Supply
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		Rs. NIL (For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the
Bid Validity days (180/120/90/60/30) 120 days (From last date of opening of tender)	No. of Covers (1/2/3/4)	02
120 days (11011 last date of opening of tender)	Bid Validity days (180/120/90/60/30)	120 days (From last date of opening of tender)
Address for Communication Prof. N. G. Ramesh, Department of Chemistry Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016	Address for Communication	Indian Institute of Technology Delhi, Hauz Khas, New Delhi
Contact No. 9971614074	Contact No.	9971614074
Email Address ramesh@chemistry.iitd.ac.in	Email Address	ramesh@chemistry.iitd.ac.in

Chairman Purchase Committee (Buyer Member)

Instructions for Online Bid Submission/ ऑनलाइन बोली (बिड) के लिए निर्देश:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app)</u>. 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 submitting their bids online on the CPP Portal.

व्यय विभाग के निर्देशों के अनुसार, यह निविदा दस्तावेज केंद्रीय सार्वजिनक प्रापण पोर्टल (यूआरएल: http://eprocure.gov.in/eprocure/app) पर प्रकाशित किया गया है। बोलीदाताओं को मान्य डिजिटल हस्ताक्षर प्रमाण पत्र का उपयोग करते हुए सीपीपी पोर्टल पर इलेक्ट्रॉनिक रूप से अपनी बोलियों की सॉफ्ट प्रतियां जमा करना आवश्यक है। सीपीपी पोर्टल पर पंजीकरण करने के लिए निविदाकर्ताओं की सहायता करने के लिए नीचे दिए गए निर्देशों का मतलब है, सीपीपी पोर्टल पर आवश्यकताओं के अनुसार अपनी बोलियां तैयार करें और अपनी बोलियां ऑनलाइन जमा करें।

More information useful for submitting online bids on the CPP Portal may be obtained at: अधिक जानकारी सीपीपी पोर्टल पर ऑनलाइन बोलियां जमा करने के लिए उपयोगी हो सकती है: http://eprocure.gov.in/eprocure/app

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
 - बोलीदाताओं को "नामांकन के लिए यहां क्लिक करें" लिंक पर क्लिक करके सेंट्रल पब्लिक प्रोक्युरमेंट पोर्टल (यूआरएल: http://eprocure.gov.in/eprocure/app) के ई-प्रोक्योरमेंट मॉड्यूल पर भर्ती करना आवश्यक है। सीपीपी पोर्टल पर नामांकन नि: शुल्क है
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
 - नामांकन प्रक्रिया के भाग के रूप में, बोलीदाताओं को अपने खाते के लिए एक अद्वितीय उपयोगकर्ता नाम चुनना होगा और एक पासवर्ड प्रदान करना होगा।
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
 - बोलीदाताओं को सलाह दी जाती है कि पंजीकरण प्रक्रिया के भाग के रूप में अपना वैध ईमेल पता और मोबाइल नंबर पंजीकृत करें। इन का उपयोग सीपीपी पोर्टल से किसी भी संचार के लिए किया जाएगा।
- 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 / TCS / nCode / eMudhra etc.), with their profile.
 - नामांकन पर, बोलीदाताओं को सीसीए इंडिया द्वारा मान्यता प्राप्त किसी प्रमाणन प्राधिकरण द्वारा जारी किए गए अपने मान्य डिजिटल हस्ताक्षर प्रमाण पत्र (कक्षा द्वितीय या कक्षा III प्रमाण पत्र के साथ महत्वपूर्ण उपयोग पर हस्ताक्षर करने) की आवश्यकता होगी (जैसे सिफी / टीसीएस / एनकोड / ई-मुद्रा आदि) , उनके प्रोफाइल के साथ
- 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 DSCs to others which may lead to misuse.
 - केवल एक मान्य डीएससी एक बोलीदाता द्वारा पंजीकृत होना चाहिए। कृपया ध्यान दें कि निविदाकर्ता यह सुनिश्चित करने के लिए ज़िम्मेदार हैं कि वे अपने डीएससी को दूसरों को उधार नहीं देते हैं जिससे दुरुपयोग हो सकता है।
- 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 / eToken.

बोलीदाता फिर अपने यूजर आईडी / पासवर्ड और डीएससी / ईटीकेन के पासवर्ड को दर्ज करके सुरक्षित लॉग-इन के माध्यम से साइट पर लॉग ऑन करता है।

SEARCHING FOR TENDER DOCUMENTS/ निविदा दस्तावेजों के लिए खोजना

- 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.
 - सीपीपी पोर्टल में निर्मित विभिन्न खोज विकल्प हैं, ताकि बोलीदाताओं को कई मापदंडों से सक्रिय निविदाएं खोज सकें। इन मापदंडों में निविदा आईडी, संगठन का नाम, स्थान, तिथि, मूल्य आदि शामिल हो सकते हैं। निविदाओं के लिए उन्नत खोज का एक विकल्प भी है, जिसमें बोलीदाता कई नामों को जोड़ सकते हैं जैसे संगठन का नाम, अनुबंध का स्थान, स्थान, सीपीपी पोर्टल पर प्रकाशित निविदा की खोज के लिए तारीख, अन्य कीवर्ड आदि।
- 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 / e-mail in case there is any corrigendum issued to the tender document.
 - बोलीदाताओं ने एक बार निविदाएं चुनी हैं जिसमें वे रुचि रखते हैं, उसका वे आवश्यक दस्तावेज / निविदा कार्यक्रम डाउनलोड कर सकते हैं। ये निविदाएं 'मेरी निविदाओं' फ़ोल्डर में ले जाई जा सकती हैं। इससे सीपीपी पोर्टल को बोलीदाताओं को एसएमएस / ई–मेल के माध्यम से सूचित किया जा सकता है, यदि निविदा दस्तावेज में कोई शुद्धि जारी कि गई है।
- 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.
 - बोलीदाता को प्रत्येक निविदा को निर्दिष्ट अद्वितीय निविदा आईडी का नोट बनाना चाहिए, अगर वे हेल्पडेस्क से कोई स्पष्टीकरण / सहायता प्राप्त करना चाहते हैं।

PREPARATION OF BIDS / बोली (बिड) की तैयारी

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
 - बोलीदाता को अपनी बोलियां जमा करने से पहले निविदा दस्तावेज पर प्रकाशित किसी भी शुद्धि को ध्यान में रखना चाहिए।
- 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 document that need to be submitted. Any deviations from these may lead to rejection of the bid.
 - कृपया बोली के भाग के रूप में जमा किए जाने वाले दस्तावेजों को समझने के लिए निविदा विज्ञापन और निविदा दस्तावेज ध्यान से देखें। कृपया उन अंकों की संख्या पर ध्यान दें जिन में बोली दस्तावेज जमा करना है, दस्तावेजों की संख्या – जिसमें प्रत्येक दस्तावेज के नाम और सामग्री शामिल हैं, जिन्हें प्रस्तुत करने की आवश्यकता है। इनमें से कोई भी विचलन बोली को अस्वीकार कर सकता है।
- 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 formats. Bid documents may be scanned with 100 dpi with black and white option.
 - बोलीदाता, अग्रिम में, निविदा दस्तावेज / अनुसूची में बताए अनुसार प्रस्तुत करने के लिए बोली दस्तावेज तैयार करना चाहिए और आम तौर पर, वे पीडीएफ / एक्सएलएस / आरएआर / डीडब्ल्यूएफ स्वरूपों में हो सकते हैं। बोली दस्तावेजों को 100 डीपीआई के साथ काले और सफेद विकल्प स्कैन किया जा सकता है।
- 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 "My

Space" 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 bid submission process.

मानक दस्तावेजों के एक ही सेट को अपलोड करने के लिए आवश्यक समय और प्रयास से बचने के लिए जो प्रत्येक बोली के भाग के रूप में जमा करने के लिए आवश्यक हैं, ऐसे मानक दस्तावेज अपलोड करने का प्रावधान (जैसे पैन कार्ड कॉपी, वार्षिक रिपोर्ट, लेखा परीक्षक प्रमाण पत्र आदि)) बोलीदाताओं को प्रदान किया गया है। ऐसे दस्तावेजों को अपलोड करने के लिए बोलीकर्ता उनके लिए उपलब्ध "मेरा स्पेस" क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय ये दस्तावेज़ सीधे "मेरा स्पेस" क्षेत्र से जमा किए जा सकते हैं, और उन्हें बार-बार अपलोड करने की ज़रूरत नहीं है इससे बोली जमा प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

SUBMISSION OF BIDS/ बोली (बिड) का जमा करना

- 1) Bidder should log into the site well in advance for bid submission so that he/she 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.
 - बोलीदाता को बोली प्रस्तुति के लिए अच्छी तरह से साइट पर लॉग इन करना चाहिए ताकि वह समय पर बोली अपलोड कर सके या फिर बोली प्रस्तुत करने के समय से पहले। अन्य मुद्दों के कारण किसी भी देरी के लिए बोलीदाता जिम्मेदार होगा।
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
 - बोलीदाता को निविदा दस्तावेज में दर्शाए अनुसार एक-एक करके आवश्यक बोली दस्तावेजों को डिजिटल हस्ताक्षर और अपलोड करना होगा।
- 3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).
 - बोलीदाता को निविदा शुल्क / ईएमडी को भुगतान के लिए "ऑन लाइन" के रूप में भुगतान विकल्प चुनना होगा और उपकरण का विवरण दर्ज करना होगा। जब भी, ईएमडी / निविदा शुल्क की मांग की जाती है, बोलीदाताओं को टेंडर शुल्क और ईएमडी अलग-अलग आरटीजीएस के माध्यम से ऑन लाइन पर भुगतान करने की आवश्यकता होती है (अनुसूची, पेज नं .2 देखें)।
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as 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.
 - एक मानक BoQ प्रारूप को सभी बोलीदाताओं द्वारा भरने के लिए निविदा दस्तावेज प्रदान किया गया है। बोलीदाताओं को इस बात का ध्यान रखना चाहिए कि उन्हें आवश्यक प्रारूप में अपनी वित्तीय बोली जमा करनी चाहिए और कोई अन्य प्रारूप स्वीकार्य नहीं है। बोलीकर्ताओं को BoQ फाइल को डाउनलोड करने, इसे खोलने और अपने संबंधित वित्तीय उद्धरण और अन्य विवरण (जैसे बोलीदाता का नाम) के साथ सफेद रंगीन (असुरक्षित) कोशिकाओं को पूरा करना आवश्यक है। कोई भी अन्य कक्ष नहीं बदला जाना चाहिए। एक बार विवरण पूरा हो जाने पर, बोलीदाता को इसे सहेजना होगा और इसे ऑनलाइन जमा करना होगा, बिना फ़ाइल नाम बदलना। यदि BOQ फ़ाइल को बोलीदाता द्वारा संशोधित किया गया है, तो बोली को खारिज कर दिया जाएगा।
- 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, opening of bids etc. The bidders should follow this time during bid submission.
 - सर्वर का समय (जो बोलीदाताओं के डैशबोर्ड पर प्रदर्शित होता है) बोलीदाताओं द्वारा बोलियों को खोलने के लिए समय सीमा को संदर्भित करने के लिए मानक समय के रूप में माना जाएगा। बोलीदाताओं को खोलना आदि। बोलीदाताओं को बोली प्रस्तुत करने के दौरान इस समय का पालन करना चाहिए।

- 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.
 - बोलीदाताओं द्वारा प्रस्तुत सभी दस्तावेज पीकेआई एन्क्रिप्शन तकनीकों का उपयोग करके एन्क्रिप्ट किया जाएगा जिससे डेटा की गोपनीयता सुनिश्चित हो सके। दर्ज किए गए डेटा को अनधिकृत व्यक्तियों द्वारा बोली खोलने के समय तक नहीं देखा जा सकता है। बोलियों की गोपनीयता को सुरिक्षित सॉकेट लेयर 128 बिट एन्क्रिप्शन तकनीक का उपयोग कर रखा जाता है। संवेदनशील क्षेत्रों का डेटा संग्रहण एन्क्रिप्शन किया जाता है।
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
 - अपलोड किए गए निविदा दस्तावेज केवल अधिकृत बोलीदाता द्वारा निविदा खोलने के बाद ही पठनीय हो सकते हैं।
- 8) Upon the successful and timely submission of bids, 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.
 - बोलियों के सफल और समय पर जमा होने पर, पोर्टल एक सफल बोली प्रस्तुत करने का संदेश देगा और एक बोली सारांश बोली संख्या के साथ प्रदर्शित किया जाएगा। और अन्य सभी प्रासंगिक विवरणों के साथ बोली प्रस्तुत करने की तारीख और समय।
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet. कृपया अनुपालन पत्रक की एक पीडीएफ फाइल में सभी प्रासंगिक दस्तावेजों के स्कैन किए गए पीडीएफ़ को जोड़ दें।

ASSISTANCE TO BIDDERS / बोलीदाताओं को सहायता

- 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.
 - निविदा दस्तावेज से संबंधित कोई भी प्रश्न और इसमें निहित नियमों और शर्तों को निविदा आमंत्रण प्राधिकरण को निविदा के लिए या निविदा में वर्णित प्रासंगिक संपर्क व्यक्ति से संबोधित किया जाना चाहिए।
- 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. The contact number for the helpdesk is 1800 233 7315. ऑनलाइन बोली प्रस्तुत करने या सामान्य में सीपीपी पोर्टल से संबंधित प्रश्नों की प्रक्रिया से संबंधित कोई भी प्रश्न 24x7 सीपीपी पोर्टल हैल्पडेस्क पर निर्देशित किया जा सकता है। हेल्पडेस्क के लिए संपर्क संख्या 1800 233 7315 है

General Instructions to the Bidders / बोलीदाताओं के लिए सामान्य निर्देश

- 1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in .pdf format. निविदाएं पोर्टल http://eprocure.gov.in/eprocure/app के माध्यम से ऑनलाइन प्राप्त होंगी तकनीकी बोलियों में, बोलीदाताओं को सभी दस्तावेजों को। पीडीएफ प्रारूप में अपलोड करना होगा।
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC". कंपनी के नाम में स्मार्ट कार्ड / ई-टोकन के रूप में मान्य क्लास ॥ / ॥। डिजिटल हस्ताक्षर प्रमाण पत्र (डीएससी) के पंजीकरण के लिए एक शर्त है और https://eprocure.gov.in/eprocure/ के माध्यम से बोली प्रस्तुत करने की गतिविधियों में भाग ले सकते है। डिजिटल हस्ताक्षर प्रमाण पत्र अधिकृत प्रमाणित एजेंसियों से प्राप्त की जा सकती है, जिनमें से जानकारी "डीएससी के बारे में सूचना" लिंक के तहत वेब साइट https://eprocure.gov.in/eprocure/app पर उपलब्ध है।

3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.
निविदाकर्ता को सलाह दी जाती है कि वे निविदाकार को निर्देश दिए गए हों ताकि ई-प्रोक्योरमेंट के लिए सेंट्रल पब्लिक प्रोकॉर्ममेंट पोर्टल के जिरए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।

Department of Chemistry Indian Institute of Technology Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: 28/08/2019

SUB: SUPPLY AND INSTALLATION OF FUME HOODS, ISLAND BENCHES, WALL BENCHES, CHEMICAL STORAGE CABINETS, SOLVENT CABINETS, GAS STORAGE CABINETS AND OTHER LAB ITEMS.

Invitation for Tender Offers

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply and installation of Fume Hoods, Island Benches, Wall Benches, Chemical Storage Cabinets, Solvent Cabinets, Gas Storage Cabinets and other Lab Items** with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATION:

S. No.	DESCRIPTION	Quantity
1	Low Constant Volume type Bench Laboratory Fume Hood of 5 feet (1500 mm) Width	4
	Specifications are for each Fume Hood	
	Structure and Material of Construction of Fume Hood:	
	(i) Hoods are of double-walled construction. Minimum inner width should be 1300 mm.	
	(ii) Structure frame in 2.0 ± 0.1 mm thick GI construction with corrosion resistant powder-coating/speciality coating.	
	(iii) Exterior/outer panel: Powder coated steel exterior/outer panels in minimum 1.2 mm thick GI construction	
	(iv) Fume-Hood under structure: Made of galvanised steel support members or fabricated out of heavy gauge rectangular shape hollow pipes in MS construction duly finished with corrosion resistant special coating.	
	(v) Inner lining, rear and top baffles in molded polyester resin/phenolic resin. Liners should be one continuous molded	

component. Liner material should be flame-retardant, self-extinguishing, with a flame spread rating of 25 or less in accordance with ASTM-E84.

- (vi) <u>Baffles:</u> Moving or adjustable baffles are not acceptable. Baffles shall preferably be removable for cleaning purpose.
- (vii) <u>Sash:</u> Combination type frameless design sash made with toughened glass. Maximum opening of sash is 28". Sash movement with counter weight. Perforated full length sash handle in anodized Al construction.
- (viii) Twin tube light fitting with fluorescent lamps.
- (ix) <u>Airfoil:</u> Hoods are provided with an airfoil to allow air flow into the hood regardless of user's position.
- (x) <u>Duct Collar:</u> Molded Polypropylene (PP)/polyester construction.

ASHRAE 110 Test:

All fume hoods should be subjected to ASHRAE 110 test as detailed below. A certificate to this effect must be submitted along with the Technical quotation.

Average face velocity: Face velocity average shall be 60 fpm.

Constant volume rate:

The fume hood should maintain a constant volumetric rate (\pm 5 CFM) and static pressure loss (\pm 0.01" H₂O) across all sash positions.

The flow velocity should be tested onsite to the satisfaction of the buyer.

Fume hood worktop:

- (i) Work top should be in Jet Black Granite.
- (ii) Fume hood interior should be flame-retardant, self-extinguishing, with a flame spread rating of 25 or less in accordance with ASTM-E84.
- (iii) 1 No. oval shaped cup sink, in PP construction.

Electrical services with internal wiring in the fume hood

- (i) On/off (touchpad)/switch for blower and light 1 No.
- (ii) 16A, MCB for blower (Legrand or Northwest make 1 No.
- (iii) 5/15A 3-pin socket with switch/MCB –

(Legrand or Northwest make) - 4 Nos.

Service valves in the fume hood

Service valves in forged brass construction, extended spindle in brass construction, color coded knobs in plastic construction, angular shaped serrated nozzles in epoxy coated brass construction, with minimum 1.5 m long flexible tubing with end fittings for the following services.

(i)	Argon	- 1 No.
(ii)	Nitrogen	- 1 No.
(iii)	Oxygen	- 1 No.
(iv)	Carbon dioxide	- 1 No.
(v)	Vacuum	- 1 No.
(vi)	Chilled water In	- 1 No.
(vii)	Chilled water Out	- 1 No.
(viii)	Potable water	- 1 No.

Fume hood under bench

1 x 900 mm – two hinged with soft closure doors

1 x 600 mm – two hinged with soft closure doors.

The above dimensions are only representative.

The under benches may have to be to custom designed to accommodate a vacuum pump in two (out of four) fume hoods and a low temperature chiller-circulator in the other two fume hoods. (**Please refer to serial Nos. 32 & 33 for details of vacuum pump and chiller-circulator**).

Door front & Cabinet Body: Both door front & cabinet body of Fume Hood under bench should be made of BWP plywood of 18±1 mm thick with factory laminated minimum 0.8 mm thick melamine laminates on both sides. The melamine laminate should conform to either DIN 68765 or BS, NEMA & BIS standards. All exposed edges are lipped with PVC or PP coating not less than 2 mm.

Electrical supply and necessary switch in the under bench cabinet need to be done by the vendor to operate the vacuum pumps and chiller circulator.

Hinges shall be applied to the cabinet & door. The door hangs on concealed, incorporated and self-closing hinges. **Hinges should be of Institutional-type five-knuckle stainless steel ss-304 of GERMAN make**.

Door handles are made up of anodized aluminium construction.

Accessories:

- (i) Scaffold Grill (1300 x 750mm) in Vertical 9OR vertical & horizontal together) rod design, fabricated out of minimum 12.0 mm dia., anodized Al rods, having max. 150 mm pitch between two rods.
- (ii) 300 mm dia. duct damper in PP const. complete with pre drilled flanges on both sides, manual operation handle and extended spindle, suitable for motorized drive.
- (iii) Ceiling enclosure panel in GI Construction (Up to False Ceiling Height)

2	Low Constant Volume type Bench Laboratory Fume Hood of 5 feet (1500 mm) Width	1	
	All specifications exactly as per Item in Serial No. 1 except for the following additional service valves.		
	In addition to eight service valves mentioned in serial No.1, the following two additional service valves have to be provided. (i) Hydrogen - 1 No. (ii) Ammonia (liquid) - 1 No.		
	The under bench cabinet of this fume hood WILL NOT ACCOMMODATE vacuum pump or chiller-circulator. Hence the under bench cabinet of this fume hood need to be designed accordingly.		
3	Island bench (Size: L 3700±100 x W 1500 x H 900 mm)	2	
	Specifications are for each Island bench		
	Worktop: Black granite of 19±1 mm thick with proper vertical support.		
	Cup sink: Oval cup sink made of PP construction - 3 Nos. (Two of these cup sinks are for disposal of aqueous layer and hence these two are joined together so that the water drain from both of them will be collected in a single canister placed underneath the island bench). The third cup sink is for disposal of solvent and the drain from this cup sink will be collected in a separate canister.		
	Vulcathene bottle trap - 3 Nos.		
	Double sided double tire reagent track.		
	Electrical Connection:		
	(i) Electrical race way of aluminium/GI construction with necessary wiring.		
	(ii) 12 x double sockets (Legrand or Northwest make or better brand quality) of 5/15 amp.		
	Under bench: (i) 8 Nos. 750 mm wide storage module with one drawer two shutters and one height adjustable shelf. or 6 Nos. 900 mm wide storage module with one drawer two shutters and one height adjustable shelf.		
	(ii) 2 Nos. 750 mm wide storage module with two shutters for keeping the canisters inside.		

2 x hinged doors with towing plinth to hold canisters. Handles on drawer and shutters are of pull type and made of anodized aluminium. Drawers should be fitted with soft auto/self-closing slide rail: Telescopic channel type drawer slide rail with ball bearings of German make. Hinges shall be applied to the cabinet & door. The door hangs on concealed, incorporated and self-closing hinges. Hinges should be of Institutional-type five-knuckle stainless steel ss-304 of GERMAN make. Material of construction of under bench storage modules, drawer and one adjustable shelf: All these should be made of BWP plywood of 18±1 mm thick with factory laminated minimum 0.8 mm thick melamine laminates on both sides. The melamine laminate should conform to either DIN 68765 or BS, NEMA & BIS standards. All exposed edges are lipped with PVC or PP coating not less than 2 mm. Cabinet body: Cabinet body is made of permanent case work without any screws and knock down. Permanent case work shall be made using latest technology. Inside cabinet body there should be no gaps for dust accumulation. ALL UNDER BENCH CUP BOARDS SHOULD BE PROVIDED WITH RUST-FREE LOCK AND KEY. Service dropper/service pendant. — 1 No. Pillaran/filler panel for accessories. — 2 Nos. Spot extractors: Premier Type spot extractors. — 4 Nos. Extraction consisting of: extraction lever (3 articulation directions adjustable) incl. integrated control valve as throttling or as stopping valve execution: - range max. 1300 mm plastic parts of PP, colour white - metal parts of anodized aluminium - threaded rod and springs of acid resistant stainless steel - piping system diameter 75 mm. 4 WALL BENCH: (Size: L 5015 ± 100 x W 800 ± 100 x H 800 ± 100 mm). Worktop: Black granite of 19±1 mm thick with proper vertical support. Under bench: 750 mm wide storage module with one drawer two shutters — 5 Nos.				
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Under bench: 750 mm wide storage module with one drawer two shutters - 5 Nos.		mm).		
750 mm wide storage module with one drawer two shutters - 5 Nos.		Worktop: Black granite of 19±1 mm thick with proper vertical support.		
		12		<u> </u>

	500 mm wide storage with one shutter (where cup sink is to	- 1 Nos.		
	be placed).			
	OI .			
	900 mm wide storage module with one drawer two shutters 600 mm wide storage with one shutter (where cup sink is to be placed).	- 4 Nos. - 1 Nos.		
	Handles on drawer and shutters are of pull type and made of aluminium.	anodized		
	Drawers should be fitted with soft auto/self-closing slide rail channel type drawer slide rail with ball bearings of German rails.	-		
	Hinges shall be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should stainless steel ss-304 of GE make .	ald be of		
	Material of construction of under bench storage modules.	drawer_		
	and one adjustable shelf: All these should be made of BWP plywood of 18±1 mm thic factory laminated minimum 0.8 mm thick melaminate sides. The melamine laminate should conform to either DIN BS, NEMA & BIS standards. All exposed edges are lipped w PP coating not less than 2 mm.	es on both 68765 or		
	Cabinet body Cabinet body is made of permanent case work without any so knock down. Permanent case work shall be made using latest technology. Inside cabinet body there should be no gaps for dust accumulated.			
	Worktop mounted electrical raceway of aluminium/GI construction necessary wiring.	ruction with		
	Electrical socket and switches	- 12 Nos.		
	Oval cup sink in PP construction	- 1 No.		
	Close Panel in wooden construction	- 2 Nos.		
	Fillar panel in wooden construction	- 2 Nos.		
5	WALL BENCH: (Size: L 3000 \pm 100 x W 700 \pm 100 x H 8 mm).	00 <u>+</u> 100	1	
	Worktop: Black granite of 19±1 mm thick with proper vertice	cal support.		
	<u>Under bench:</u>			

750 mm wide storage module with one drawer two shutters	- 1 Nos.
500 mm wide storage module with one drawer one shutter	- 1 Nos.
750 mm wide storage module with two shutters	- 2 Nos.
(sink under bench)	

or

600 mm wide storage module with one drawer two shutters
750 mm wide storage module with one drawer two shutters
1 Nos.
1 Nos.
2 Nos.
(sink under bench)

Handles on drawer and shutters are of pull type and made of anodized aluminium.

Drawers should be fitted with soft auto/self-closing slide rail: Telescopic channel type drawer slide rail with ball bearings of German make.

Hinges shall be applied to the cabinet & door. The door hangs on concealed, incorporated and self-closing hinges. **Hinges should be of Institutional-type five-knuckle stainless steel ss-304 of GERMAN make**.

<u>Material of construction of under bench storage modules, drawer</u> and one adjustable shelf:

All these should be made of BWP plywood of 18±1 mm thick with factory laminated minimum 0.8 mm thick melamine laminates on both sides. The melamine laminate should conform to either DIN 68765 or BS, NEMA & BIS standards. All exposed edges are lipped with PVC or PP coating not less than 2 mm.

Cabinet body

Cabinet body is made of permanent case work without any screws and knock down. Permanent case work shall be made using latest technology.

Inside cabinet body there should be no gaps for dust accumulation.

Worktop mounted electrical raceway of aluminium/GI construction with necessary wiring.

Electrical socket and switches - 4 Nos.

BIG PP Sink (L $600 \pm 50 \times W 450 \pm 50 \times D 300 \pm 50 \text{ mm}$) - 2 Nos.

Worktop mounted three way water tap with swan neck spout - 2 Nos.

3 way taps with goosenecks required at the sink tables made of forged brass body with 1/2" BSP male inlet and powder coated. Goosenecks shall have a separate outlet coupling with a female thread securely brazed to the gooseneck for attachment of serrated hose ends, aspirators and other outlet fittings. Rigid goosenecks shall have a male inlet thread and be

threaded directly into the faucet body so as to be absolutely goosenecks (360°) shall utilize a TFE packing with an adjustable packing nut. Water faucets and valves shall be fully All taps shall have plastic knob with ISI approved color code Construction Detail of 3 Way Water Taps: Raw Material: Brass as per IS: 319 (I) (Machining Grade). Brass as per IS: 8737 2007 (Forging Grade). Pipe as per IS: 407 (CuZn37). Polypropylene Knob. All Gasket / 'O' Ring Nitrile Rubber. Inlet Connection 1/2" B.S.P.	n externally y assembled.		
Worktop mounted double outlet eye wash with SS breaded flexible hose	- 2 Nos.		
Close Panel in wooden construction	- 1 No.		
Fillar panel in wooden construction	- 2 Nos.		
6 WALL BENCH: (Size: L 3400 ± 100 x W 750 x H 900).		1	
Worktop: Black granite of 19±1 mm thick.			
Under bench: 750 mm wide storage module with one drawer two shutters or	- 3 Nos.		
900 mm wide storage module with one drawer two shutters 600 mm wide storage module with one drawer two shutters	- 1 Nos. - 2 Nos.		
550 ± 50 mm leg space with key board tray and CPU trolley	- 2 Nos.		
Handles on drawer and shutters are of pull type and made of aluminium.	anodized		
Drawers should be fitted with soft auto/self-closing slide rail channel type drawer slide rail with ball bearings of German r			
Hinges shall be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges. Hinges should be applied to the cabinet & door. The door hang concealed, incorporated and self-closing hinges.	uld be of		
Material of construction of under bench storage modules and one adjustable shelf:	<u>, drawer</u>		

	All these should be made of BWP plywood of 18±1 mm thick with factory laminated minimum 0.8 mm thick melamine laminates on both sides. The melamine laminate should conform to either DIN 68765 or BS, NEMA & BIS standards. All exposed edges are lipped with PVC or PP coating not less than 2 mm.		
	Cabinet body Cabinet body is made of permanent case work without any screws and knock down. Permanent case work shall be made using latest technology. Inside cabinet body there should be no gaps for dust accumulation.		
	Worktop mounted electrical raceway of aluminium/GI construction with necessary wiring.		
	Electrical socket and switches - 10 Nos.		
	LAN point - 2 Nos.		
	Fillar panel in wooden construction - 2 Nos		
7	WALL BENCH: (Size: L 2900 ± 200 x W 750 x H 900).	1	
	Worktop: Black granite of 19±1 mm thick.		
	Under bench: 750 mm wide storage module with one drawer two shutters 500 mm wide storage module with one drawer one shutter 550 ± 50 mm leg space with key board tray and CPU trolley or - 1 Nos 2 Nos 2 Nos. or		
	900 mm wide storage module with one drawer two shutters -1 Nos. 600 mm wide storage module with one drawer two shutters -2 Nos. 600 ± 50 mm leg space with key board tray and CPU trolley -1 No.		
	Handles on drawer and shutters are of pull type and made of anodized aluminium.		
	Drawers should be fitted with soft auto/self-closing slide rail: Telescopic channel type drawer slide rail with ball bearings of German make.		
	Hinges shall be applied to the cabinet & door. The door hangs on concealed, incorporated and self-closing hinges. Hinges should be of Institutional-type five-knuckle stainless steel ss-304 of GERMAN make.		
	Material of construction of under bench storage modules, drawer and one adjustable shelf: All these should be made of BWP plywood of 18±1 mm thick with factory laminated minimum 0.8 mm thick melamine laminates on both		

	sides. The melamine laminate should conform to either DIN 68765 or BS, NEMA & BIS standards. All exposed edges are lipped with PVC or PP coating not less than 2 mm.		
	Cabinet body Cabinet body is made of permanent case work without any screws and knock down. Permanent case work shall be made using latest technology. Inside cabinet body there should be no gaps for dust accumulation.		
	Worktop mounted electrical raceway of aluminium/GI construction with necessary wiring.		
	Electrical socket and switches - 10 Nos.		
	LAN point - 2 Nos.		
	Fillar panel in wooden construction - 2 Nos		
	Close panel in wooden construction - 1 No.		
8	VENTILATED CHEMICAL STORAGE CABINET (Size: L 950 ± 50 x W 500 ± 50 x H 1750 ± 100 mm)	3	
	Asecos (Austria)/Labor Security System (Italy)/Duperthal (Germany)/Justrite (USA) make only		
	Should come with Lock & Key.		
	Electrical raceway with necessary switch and or MCB for connecting the chemical cabinet to blower should be provided. An additional <u>Four number 5/15 A three pin top</u> have to be provided in the small room where these chemical safety cabinets are to be housed.		
9	FIRE SAFETY SOLVENT CABINET (Size: W 1180 ± 50 x D 650 ± 50 x 1950 ± 50 mm)	2	Representat- ive image
	Asecos (Austria)/Labor Security System (Italy)/Duperthal (Germany)/Justrite (USA) make only		
	Cabinet should have 90 Minutes Fire resistance. Should conform to International standards such as EN 14470-1, EN 16121, EN 16122.		
	Two doors.		
	Three adjustable shelves with screws.		
	Bottom basin.		

	Automatic thermic closure (not electric) device which closes door at 50 °C.		
	Earthing system to avoid electrostatic charges.		
	Should come with Lock & Key.		
10	GAS CYLINDER STORAGE CABINETS	3	Representative Images
	Gas cabinets are designed to provide a safe means to isolate hazardous gas cylinders from the surrounding work place.		
	Each cabinet should be capable of storing MINIMUM TWO gas cylinders.		
	Constructed of durable Electrogalvanized steel painted with Epoxy acid proof dust or GI painted with tough powder coat paint to provide excellent corrosion resistance.		0
	Equipped with Explosion proof windows on the door making it convenient to observe.		
	Pass holes set on the side to ensure well ventilation.		
	Metal ramp to facilitate the placement of the gas cylinder in the cabinet.		
	Cylinder holding brackets for holding cylinder.		
	Gas purification system should be installed inside the gas cylinder cabinet itself.		
	IMPORTANT: In one of the gas cylinder cabinets, liquid ammonia and hydrogen gas cylinders are to be housed. These two gas cylinders are NOT OF STANDARD SIZE. The size of these cylinders should be noted and cylinder holding brackets are to be custom designed to hold these two cylinders.		
11	TALL VERTICAL STORAGE CABINET FOR KEEPING FILES, BOOKS ETC. (SIZE L 1000 ± 100 x W 400 ± 50 x H 2600 ± 100 mm)		Representative image
	Material of construction of under storage cabinet		
	Storage cabinets are custom-designed to fit in the given space with enough shelves and compartments as deemed necessary to utilize maximum available space for keeping files, books etc.		
	Material of construction:		

	Cabinet made in thick GI construction with corrosion resistant powder-coating/speciality coating.		
	Number of shelves as per the size.		
	Cabinet doors are made of toughened glass for easy visibility of books/files inside the cabinets.		
	Door handles are pull type anodized/SS with self-closing hinges.		
12	ANTI VIBRATION TABLE (SIZE: L 900 x D 600 x h 900 MM)	1	
13	EMERGENCY SAFETY SHOWER – CEILING MOUNTED	1	
	Ceiling Mounted, overhead emergency shower in GI powder coated construction along with necessary plumbing from the nearest point inside the Lab through false ceiling.		
EX	HAUST SYSTEM FOR FUMEHOOD, SPOT EXTRACTORS AND CI CABINETS	HEMICAL	STORAGE
	Supply, Commissioning of PP moulded direct driven centrifugal blower of following capacities and static pressure with appropriate capacity TEFC B5/ Flange mounted, 3 ph, 415 volts 50 Hz IP-55 in FLP construction Protection class F insulation, efficiency class IE3 motor (motor should be compatible for VFD and derated for operation on VFD) complete with suitable clamp adapter, electro galvanized stand case frame with vibration isolators, nut & bolts, anchor fastness, blower inlet & outlet flexible connections, bird mesh, weather cowl & stack support.		
14	Exhaust Fan (400 Dia.) – 1 fan for 3 Nos. Fume hoods + 4 spot extractors	1	
	SISW Direct Drive Type exhaust fan, capacity 1900-2000 CFM at 25-40 mm WC or static pressure of 6 inch WG static pressure. Dynamically balanced corrosive resistant impeller with extra strength, high efficiency. FRP impeller with vibration isolator. Drive 3 HP, 1440 RPM		
	Electrical panel with necessary internals and VFD for fan.		
15	Exhaust Fan (400 Dia.) – 1 fan for 2 Nos. Fume hoods + 4 spot extractors	1	
	SISW Direct Drive Type exhaust fan, capacity 1900-2000 CFM at 25-40 mm WC or static pressure of 6 inch WG static pressure. Dynamically balanced corrosive resistant impeller with extra strength, high efficiency.		

	FRP impeller with vibration isolator.		
	Drive 3 HP, 1440 RPM		
	Electrical panel with necessary internals and VFD for fan.		
16	Exhaust Fan (355 Dia.) – 1 fan for 3 chemical storage cabinet	1	
	SISW Direct Drive Type exhaust fan, capacity 500-600 CFM at 25-40 mm WC.		
	Dynamically balanced corrosive resistant impeller with extra strength, high efficiency.		
	FRP impeller with vibration isolator. Drive 1 HP		
	DOL starter for motor.		
17	Supply and Installation of exhaust ducting in PP/FRP (Round Shape) complete with necessary bends, reducers, T-connections, supports, flanges, gaskets, nutbolts etc. Installation hardware and structural support.		
18	PP/FRP dampers for fume hoods.		
19	Dampers/valves for spot extractors.		
	GAS HANDLING SYSTEM		
	VALVE, PRESSURE GAUGE, PRESSURE REGULATOR, COLOUR CODED STICKERS & APPROPRIATE END FITTINGS SUCH AS BALL VALVES, ODFH CONNECTOR, OD TEE, REDUCERS, NUTS, FERRULES, UNION CLAMPS, HARDWARES ETC.		
	TRAPS:		
	For NITROGEN: Moisture Trap shall consist of silica gel material to remove moisture and Molecular Sieve 13X to remove moisture, traces of moisture, CO and CO2 which is filled in poly acrylic tube of 210 CC, length 10". Maximum Inlet Impurity 20ppm. 100cc Oxytrap Oxytrap shall consist of regenerable Oxytrap with 0.5% palladium on Carbon/ Alumina crystal. Filled in SS 304 125 tube. Size 8". Maximum Inlet Impurity 10ppm. Maximum Outlet Impurity < 2ppm.	1	
	For ARGON: Moisture Trap shall consist of silica gel material to remove moisture and Molecular Sieve 13X to remove moisture, traces of moisture, CO and CO2 which is filled in poly acrylic tube of 210 CC, length 10". Maximum Inlet Impurity 20ppm. 100cc Oxytrap Oxytrap shall consist of regenerable Oxytrap with 0.5% palladium on Carbon/ Alumina crystal. Filled in SS 304 125 tube. Size	1	

	8". Maximum Inlet Impurity 10ppm. Maximum Outlet Impurity <	
	2ppm.	
	For HYDROGEN:	1
	Moisture Trap shall consist of silica gel material to remove moisture and Molecular Sieve 13X to remove moisture, traces of moisture, CO and	
	CO2 which is filled in poly acrylic tube of 210 CC, length 10".	
	Maximum Inlet Impurity 20ppm.	
	100cc Oxytrap Oxytrap shall consist of regenerable Oxytrap with 0.5%	
	palladium on Carbon/ Alumina crystal. Filled in SS 304 125 tube. Size	
	8". Maximum Inlet Impurity 10ppm. Maximum Outlet Impurity <	
	2ppm.	
	For AIR:	1
	Moisture Trap shall consist of silica gel material to remove moisture and Molecular Sieve 13X to remove moisture, traces of moisture, CO and	
	CO2 which is filled in poly acrylic tube of 210 CC, length 10".	
	Maximum Inlet Impurity 20ppm.	
	Hydrocarbon trap consist activated carbon to remove carbons which is	
	filled in poly acrylic tube of 210 CC, length 10". Maximum Inlet	
	Impurity 20ppm.	
01	DIL DIE MICDON EN TED CO 204	-
21	INLINE MICRON FILTER – SS 304 Pody SS 304 (5 migrap)	5
	Body - SS 304 (5 micron)	
22	Flash back arrester – SS 304	5
	Body – SS 304	
23	High pressure Dual Cylinder gas manifold system (Manual) for	6
	hydrogen, nitrogen, oxygen, argon, CO ₂ and ammonia gas.	
	Body – SS 316	
24	Dual stage cylinder pressure regulator with mounting for hydrogen,	6
	nitrogen, oxygen, argon, CO ₂ and ammonia gas	· ·
	Body – SS 316	
	Diaphragm – SS 316	
25	CC Duaided high massessme mistalla	12
25	SS Braided high pressure pigtails	12
26	MS powder coated cylinder bracket with chain for cylinder	12
27	1/2" SS 304 TUBING with 0.9 - 1.2 mm wall thickness and colour	As per requirement
	coded sleeving.	
28	1/4" SS 304 TUBING with 0.9 – 1.2 mm wall thickness and colour	As per requirement
20	coded sleeving	115 per requirement
29	1/8" SS 304 TUBING with $0.9 - 1.2$ mm wall thickness and colour	As per requirement
	coded sleeving	

30	Alumini	um casing caping size 4"	As per re	equirement
31	PP Clam	p with profile ½" & ¼" OD	As per requirement	
31 32	OIL FRISINGLE Single stan integral Low presses system as A gas based ability to An air in and dry as a Ultimate Motor publication of the inlet nor The inlet single standard system as a system as a bility to An air in and dry as a Ultimate Motor publication of the inlet system as a	p with profile ½" & ¼" OD EE VACUUM PUMP age, oil sealed and air cooled rotary vane vacuum pumps with ated oil separator with coalescing filter, and oil return line. It is sure drop inlet non —return valve to protect the machine and gainst counter rotation. It is valve should be fitted as standard to optimize the pumps handle water vapor. It is take filter should also be provided for protection in both humid applications. Pressure: in the range of 2x10-3 mbar or 1.5x10-3 Torr ower: 450-550 W/50 Hz Re filter. Itty, air inlet filter with paper element. Premium filtration by: 99.95% for particles above 5 micron; designed specifically am applications due to its optimized pressure drop. In-return valve. non-return valve protects the vacuum pump against counter in the event of the pump stopping without the prior venting of	As per re	Representative image
	the point vacuum j also cont located d	of use. The device also protects back sucking of oil from the pump. This assembly is located within the inlet housing, which ains an inlet protection screen; an additional protection device ownstream of the inlet filter. separator (air/oil separator vessel).		
	Low nois	se level.		
	Anti vibr	ation mounts.		
	Note: (i)	Each vacuum will be housed in the under bench of alternate fume hoods. Each vacuum pump is connected to TWO fume hoods. Necessary pressure tubing, connectors, bifurcators and other accessories to connect each vacuum pump to two fume hoods should be provided.		
	(ii)	Necessary electrical connections and 16A socket should be provided in the under bench of fume hood to operate the vacuum pump.		

33	Chiller-circulator	2	Representat- ive image
	Re-circulation Chiller, Working temperature range -15°C to +20°C, Temperature Stability ± 1°C, Cooling capacity: 500w @ 0°C Pump pressure max 0.7 bar, Pump flow min 10 L/min. Bath Volume: 4.5 – 5.0 L External Body & Bath: Stainless Steel Supply voltage: 230 VAC, 50 HZ.		Tve image
	Note: (i) Each re-circulation chiller will be housed in the under bench of alternate fume hoods. Each circulator is connected to TWO fume hoods. Necessary INSULATED tubing, connectors and other accessories to connect each circulator to two fume hoods should be provided. (ii) Necessary electrical connections and 16A socket should be provided in the under bench of fume hood to operate the circulator.		
34	Source connector for vacuum, water & chilled water	As per actual	
35	HDPE drain piping for fume hoods and furniture 63 mm OD HDPE pipe Providing and fixing of UV stabilized & antimicrobial fusion welded multi-layer, HDPE PE 100 PN-6 pipes confirming to IS 4984 complete with necessary slope and HDPE fittings specials like flanges, gaskets, bolts, nuts, washers, elbows, tees, unions, reducers, reducing tees, end caps, reducing sockets, reducing elbows, heat welding, etc	As per actual	
36	20 mm Dia Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes for WATER, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement complete as per direction of Engineer-in-Charge.	As per actual	
37	20 mm Dia Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes WITH Nitrile insulation FOR CHILLED WATER, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. Note: The chilled water circulation is only from re-circulate chiller placed beneath the fume hood to the two fume hoods to which the	As per actual	
38	chiller is connected. CPVC ball valves 20 mm Dia	As per requ	uirement

39	Acrylic Partition with Frame Structure (Size: L4680 x H1700mm)	1
	OR as per site dimension.	
	5mm Acrylic Partition with require border frame in GI construction	

IMPORTANT NOTES AND SPECIFIC TERMS AND CONDITIONS:

1. Manufacturers/vendors/suppliers interested in participating in the tender SHOULD MAKE A PRE-TENDER SUBMISSION VISIT TO THE SITE (V-421) TAKING prior appointment with the buyer (Prof. N. G. Ramesh, 9971614074). Visit the site and take necessary measurements/details etc. before submitting the quotation. A CERTIFICATE ISSUED BY PROF. N. G. RAMESH IN HIS LETTER HEAD THAT YOU HAD MADE A PRE-VISIT TO THE SITE HAS TO BE ENCLOSED ALONG WITH TENDER DOCUMENTS.

QUOTATIONS SUBMITTED BY MANUFACTURERS/VENDORS/SUPPLIERS WHO HAD NOT MADE VISIT TO THE SITE OR DO NOT ATTACH THE SAID CERTIFICATE WILL BE TECHNICALLY REJECTED.

2. MANUFACTURERS/VENDORS/SUPPLIERS SHOULD TAKE EXACT MEASUREMENTS REQUIRED FOR DUCTING/TUBING/PIPING/ELECTRICAL WIRING/WATER CONNECTION/DRAINAGE/GAS PIPING, CHILLED WATER TUBING, VACUUM TUBING AS WELL AS CALCULATE THE NUMBER OF CLAMPS, FERRULES, NUTS BOLTS AND OTHER SIMILAR ITEMS ETC. AND QUOTE ACCORDINGLY.

FINAL PAYMENT TO THE <u>SUCCESSFUL BIDDER</u> FOR SUCH WORKS WILL BE AS PER ACTUAL LENGTH/NUMBER OF ITEMS USED OR AS PER QUOTATION <u>WHICHEVER IS LOWER. UNDER NO CIRCUMSTANCES THE FINAL BILL CAN BE</u> HIGHER THAN WHAT HAS BEEN QUOTED IN THE FINANCIAL BID.

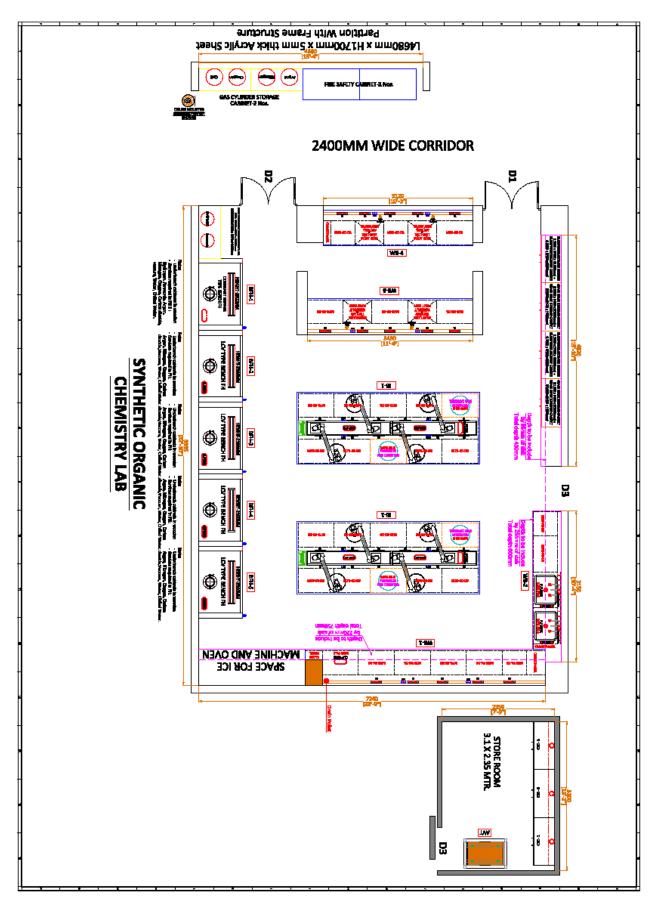
- 3. TWO REPRESENTATIVE LAYOUTS OF THE PROPOSED LAB ARE ATTACHED ALONG WITH THE TECHNICAL SPECIFICATIONS. PLEASE NOTE THAT THE LAYOUTS ARE ONLY REPRESENTATIVE JUST TO GIVE AN IDEA ABOUT THE PROPOSED LAB FOR PROSPECTIVE BIDDER. THEY ARE NOT THE FINAL LAYOUTS.
 - FINAL LAYOUT SHOULD BE ARRIVED AT BY EACH BIDDER AFTER THE SITE VISIT AND SHOULD BE SUBMITTED ALONG WITH THE TECHNICAL OUOTATION.

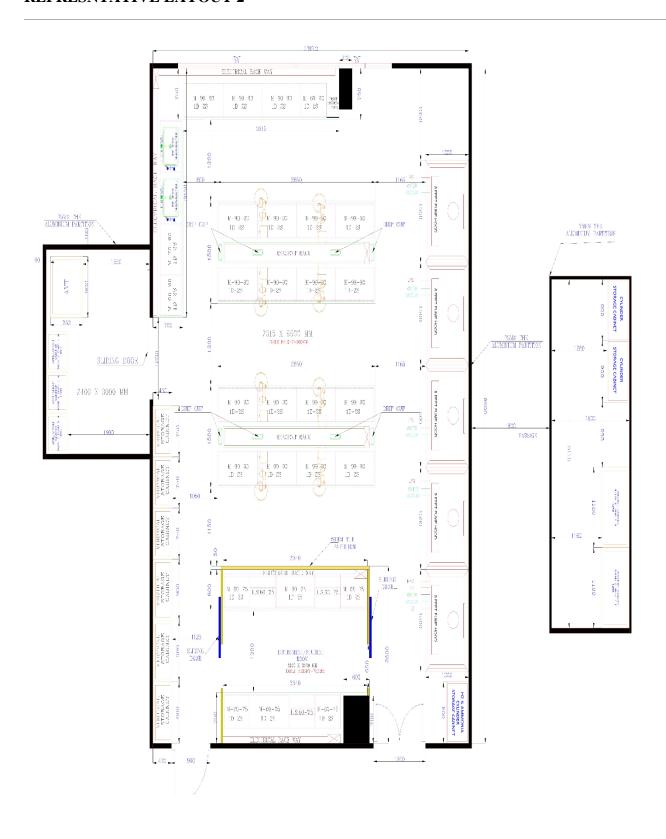
TENDER DOCUMENTS SHOULD BE IN ACCORDANCE WITH YOUR LAYOUT. FAILURE TO SUBMIT THE LAYOUT WITH THE TECHNICAL TENDER WILL LEAD TO THE REJECTION OF THE TENDER.

- 4. ONLY ONE INLET FOR WATER AND ONE DRAINAGE OUTLET WILL BE AVAILABLE IN THE LAB. SUCCESSFUL BIDDER SHOULD CONNECT THIS INLET AND DRAINAGE TO FUME HOODS, SINK AND OTHER REQUIRED PLACES THROUGH PROPER TUBING.
- 5. ALL ELECTRICAL CONNECTIONS SHOULD COME THROUGH FALSE CEILING TO THE RESPECTIVE PLACES FROM THE SOURCE. THESE ARE TO BE DONE BY THE SUCCESSFUL BIDDER.

- 6. SUPPLY OF MATERIALS TO IIT, TRANSPORTATION OF THEM TO THE SITE AND INSTALLATION ARE ALL AT THE SOLE DISCREATION OF THE SUCCESSFUL BIDDER. THERE IS NO PROVISION FOR THE BUYER TO TRANSPORT/SHIFT ANY OF THE MATERIALS FROM THE PLACE OF DELIVERY TO THE SITE WITHIN IIT.
- 7. ALL ELECTRICAL SWITCHES/MCBs ARE LEGRAND or NORTHWEST MAKE ONLY.

A complete set of tender documents* may be Download by prospective bidder free of cost from the website http://eprocure.gov.in/eprocure/app. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) online through RTGS/NEFT only.





Terms & Conditions Details

Sl. No.	Specification
1.	Due date : The tender has to be submitted on-line before the due date. The offers received after the
	due date and time will not be considered. No manual bids will be considered.
2.	Preparation of Bids : The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BoQ_XXXX.
	The Technical bid and the financial bid should be submitted Online.
	Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and
3.	anything asked as 'Optional' in the specs is not to be included for overall comparison.EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The
3.	Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful bidders after the award of contract. Refer to Schedule (at page 1 of this document) for its actual place of submission.
4.	Refund of EMD : The EMD will be returned to unsuccessful Tenderer only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.
5.	Opening of the tender : The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only one representative will be allowed to participate in the tender opening. Bid received without EMD (if
	present) will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening.
6.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without
	assigning any reason.
7.	Pre-qualification criteria: (i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed. (ii) An undertaking from the OEM 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. (Ref. Annexure-II)
	 (iii) OEM should be internationally reputed Branded Company. (iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.
	(v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.(vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
8.	Performance Security : The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC and should be kept valid for a period of 60 days beyond the date of completion of warranty period.

Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, liquidated 9. damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. 10. Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause. 11. **Packing Instructions**: Each package will be marked on three sides with proper paint/indelible ink, the following: i. Item Nomenclature ii. Order/Contract No. iii. Country of Origin of Goods iv. Supplier's Name and Address v. Consignee details vi. Packing list reference number 12. **Delivery and Documents:** Delivery of the goods should be made within a maximum of 12 to 16 weeks (for goods ready for shipment) & Maximum (To be filled by Purchaser) weeks (For special/to be fabricated goods) from the date of the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company: 1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity 2. unit price, total amount; 3. Insurance Certificate if applicable; 4. Manufacturer's/Supplier's warranty certificate; 5. Inspection Certificate issued by the nominated inspection agency, if any 6. Supplier's factory inspection report; and 7. Certificate of Origin (if possible by the beneficiary); 8. Two copies of the packing list identifying the contents of each package. 9. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses. 13. **Delayed delivery:** If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.

Prices: The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the

purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated.

14.

The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges. At any circumstances, it is the responsibility of the foreign supplier to handover the material to our forwarder at the origin airport after completing all the inland clearing. No Ex- Works consignment will be entertained. "In case of CIF/CIP shipments, kindly provide the shipment information at least 2 days in advance before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name, address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent." Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as 'Optional' in the specs is not to be included for overall comparison. 15. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier. Purchaser: Prof. N. G. Ramesh Department of Chemistry Indian Institute of Technology Hauz Khas, New Delhi - 110016. **Supplier:** (To be filled in by the supplier) (All supplier's should submit its supplies information as per Annexure-II). 16. **Progress of Supply**: Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under: Quantity offered for inspection and date; Quantity accepted/rejected by inspecting agency and date; 3. Quantity dispatched/delivered to consignees and date; Ouantity where incidental services have been satisfactorily completed with date; 5. Quantity where rectification/repair/replacement effected/completed on receipt any communication from consignee/Purchaser with date; 6. Date of completion of entire Contract including incidental services, if any; and 7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified). 17. **Inspection and Tests:** Inspection and tests prior to shipment of Goods and at final acceptance are as follows: After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier's premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser's site at the time of submission of order acceptance. The acceptance test will be conducted by the Purchaser, their consultant or other such person

nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the

presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser. Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier. 18. **Resolution of Disputes**: The dispute resolution mechanism to be applied pursuant shall be as follows: • In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. • In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. • The venue of the arbitration shall be the place from where the order is issued. 19. Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA. 20. **Right to Use Defective Goods** If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation. 21. **Supplier Integrity** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract. 22. **Training** The Supplier is required to provide training to the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment. 23. **Installation & Demonstration** The supplier is required to done the installation and demonstration of the equipment within one month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same as per the supply of materials. In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IITD will not be liable to any type of losses in any form. 24. **Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a

	period of not less than 3 months after installation and commissioning. In case of orders placed on FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the insurance should be up to IIT Delhi.
25.	Incidental services: The incidental services also include:
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises at the cost of Supplier through their Indian representatives.
26.	Warranty:
	 (i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods at the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site. (ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract. (iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. (iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive
	Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges
27.	will not be included in computing the total cost of the equipment. Governing Language
	The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.
28.	Applicable Law The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction.
29.	Notices
	• Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address.
20	• A notice shall be effective when delivered or on the notice's effective date, whichever is later.
30.	Taxes Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

	For research purpose(s) ONLY , 5% GST will be applicable with concessional GST Certificate.
31.	Duties IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only. a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
	b) Forwarder details i.e. Name, Contact No., etc.
	IIT Delhi is partially exempted from paying GST and necessary GST Exemption Certificate will be provided for which following information are required. b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable c) Supply Order Copy d) Proforma-Invoice Copy.
32.	Agency Commission : Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.
33.	Payment:
	 (i) For imported items Payment will be made through irrevocable Letter of Credit (LC) Cash Against Documents (CAD)/Against delivery/after satisfactory installation by T.T. Letter of Credit (LC) will be established in favour of foreign Supplier after the submission of performance security. The letter of credit (LC) will be established on the exchange rates as applicable on the date of establishment. For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be released on presentation of complete and clear shipping documents and 20% of the LC amount shall be released after the installation and demonstration of the equipment at the INST site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation and subject to the production of unconditional performance bank guarantee as specified in Clause 8 of tender terms and conditions. (ii) For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at IITD in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 9 of tender terms and conditions. (iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items. (iv) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
34.	User list: Brochure detailing technical specifications and performance, list of industrial and
	educational establishments where the items enquired have been supplied must be provided. (Ref. Annexure-III)
35.	Manuals and Drawings
	(i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.(ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.

(iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser. 36. **Application Specialist**: The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to Annexure-III) 37. **Site Preparation**: The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other preinstallation requirements. 38. **Spare Parts** The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier: Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and iii. In the event of termination of production of the spare parts: iv. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and v. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order. 39. **Defective Equipment:** If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may consider "Banning" the supplier. **Termination for Default** 40. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part: i. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or ii If the Supplier fails to perform any other obligation(s) under the Contract. iii If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this Clause: "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes

	collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;"
	• In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.
41.	Shifting : After 1-2 years once our new Academic Block will be ready, the supplier has to shift and reinstall the instrument free of cost (if required).
42.	Downtime: During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.
43.	Training of Personnel: The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.
44.	Disputes and Jurisdiction : Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within New Delhi.
45.	Compliancy certificate : This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

Sl.	Technical Specifications	Compliance
No.		Y/N
1	Low Constant Volume type Bench Laboratory Fume Hood of 5 feet (1500 mm)	
	Width with required specifications and accessories.	
2	Low Constant Volume type Bench Laboratory Fume Hood of 5 feet (1500 mm)	
	Width with required specifications and accessories.	
3	Island bench (Size: L 3700±100 x W 1500 x H 900 mm) with required	
	specifications and accessories.	
4	WALL BENCH: (Size: L 5015 ± 100 x W 800 ± 100 x H 800 ± 100 mm) with	
	required specifications and accessories.	
5	WALL BENCH: (Size: L 3000 ± 100 x W 700 ± 100 x H 800 ± 100 mm) with	
	required specifications and accessories.	
6	WALL BENCH: (Size: L 3400 ± 100 x W 750 x H 900) with required	
	specifications and accessories.	
7	WALL BENCH: (Size: L 2900 ± 200 x W 750 x H 900) with required	
	specifications and accessories.	
8	VENTILATED CHEMICAL STORAGE CABINET	
	(Size: L 950 ± 50 x W 500 ± 50 x H 1750 ± 100 mm)	
	Asecos (Austria)/Labor Security System (Italy)/Duperthal	
	(Germany)/Justrite (USA) make only	
9	FIRE SAFETY SOLVENT CABINET	
	(Size: W $1180 \pm 50 \times D 650 \pm 50 \times 1950 \pm 50 \text{ mm}$)	
	Asecos (Austria)/Labor Security System (Italy)/Duperthal	
	(Germany)/Justrite (USA) make only	
10	GAS CYLINDER STORAGE CABINETS	
11	TALL VERTICAL STORAGE CABINET FOR KEEPING FILES, BOOKS	
	ETC. (SIZE L $1000 \pm 100 \times W 400 \pm 50 \times H 2600 \pm 100 \text{ mm}$)	
12	ANTI VIBRATION TABLE (SIZE: L 900 x D 600 x h 900 MM)	
13	EMERGENCY SAFETY SHOWER – CEILING MOUNTED	
14	Exhaust Fan (400 Dia.) – 1 fan for 3 Nos. Fume hoods + 4 spot extractors	
15	Exhaust Fan (400 Dia.) – 1 fan for 2 Nos. Fume hoods + 4 spot extractors	
16	Exhaust Fan (355 Dia.) – 1 fan for 3 chemical storage cabinet	
17	Supply and Installation of exhaust ducting in PP/ FRP (Round Shape)	
18	PP/FRP dampers for fume hoods	
19	Dampers/valves for spot extractors.	

20	GAS HANDLING SYSTEM SHOULD CONTAIN ON/OFF VALVE, PRESSURE GAUGE, PRESSURE REGULATOR, COLOUR CODED	
	STICKERS & APPROPRIATE END FITTINGS SUCH AS BALL VALVES,	
	ODFH CONNECTOR, OD TEE, REDUCERS, NUTS, FERRULES, UNION	
	CLAMPS, HARDWARES ETC.	
21	INLINE MICRON FILTER – SS 304	
22	Flash back arrester – SS 304	
23	High pressure Dual Cylinder gas manifold system (Manual) for hydrogen,	
	nitrogen, oxygen, argon, CO2 and ammonia gas.	
24	Dual stage cylinder pressure regulator with mounting for hydrogen, nitrogen,	
	oxygen, argon, CO ₂ and ammonia gas	
25	SS Braided high pressure pigtails	
26	MS powder coated cylinder bracket with chain for cylinder	
27	1/2" SS 304 TUBING with 0.9 - 1.2 mm wall thickness and colour coded	
	sleeving.	
28	1/4" SS 304 TUBING with 0.9 – 1.2 mm wall thickness and colour coded	
	sleeving	
29	1/8" SS 304 TUBING with 0.9 – 1.2 mm wall thickness and colour coded	
	sleeving	
30	Aluminium casing caping size 4"	
31	PP Clamp with profile ½" & ¼" OD	
32	OIL FREE VACUUM PUMP	
33	Chiller-circulator	
34	Source connector for vacuum, water & chilled water	
35	HDPE drain piping for fume hoods and furniture	
36	20 mm Dia Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes for WATER,	
37	20 mm Dia Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes WITH	
	Nitrile insulation FOR CHILLED WATER	
38	CPVC ball valves 20 mm Dia	
39	Acrylic Partition with Frame Structure (Size: L4680 x H1700mm) OR as per	
	site dimension.	

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

	Signature of Bidder
Name:	
Designation:	
Organization Name:	
Contact No.:	

<< Organization Letter Head >> DECLARATION SHEET

DECLARATION SHEET				
We,	hereby certify that all the information and data furnished by our			
	n are true and complete to the best of our knowledge. I have gone			
through the specification, conditions and stipulation	ns in details and agree to comply with the requirements and intent of			
specification.				
_	chorized (Copy attached) by the OEM to participate in Tender. We			
e	conditions of eligibility criteria laid down in this tender document.			
	basis with technology / product updates and extend support for the			
warranty.	ad dan da anadamia diaganda siran da HT Dalki			
The prices quoted in the financial bids are subsidize	ed due to academic discount given to III Deini.			
We, further specifically certify that our	NAME & ADDRESS OF			
organization has not been Black Listed/De Listed				
or put to any Holiday by any Institutional				
Agency/ Govt. Department/ Public Sector Undertaking in the last three years.				
1 Phone				
2 Fax				
3 E-mail				
4 Contact Person Name				
5 Mobile Number				
6 GST Number				
7 PAN Number				
(In case of on-line payment of Tender Fees)				
8 UTR No. (For Tender Fee)				
(In case of on-line payment of EMD)				
9 UTR No. (For EMD)				
10 Kindly provide bank details of the bidder				
in the following format:				
a) Name of the Bank				
b) Account Number				
c) Kindly attach scanned copy of one Cheque				
book page to enable us to return the EMD to				
unsuccessful bidder				

(Signature of the Tenderer)

Name:

Seal of the Company

List of Govt. Organization/Deptt.

List of Government Organizations for years (must be supported with work ord	whom the Bidder has undertaken such wo	rk during last three
Name of the organization	Name of Contact Person	Contact No.
	Engineer who have the technical compe	tency to handle and
support the quoted product during the w		C () N
Name of the organization	Name of Contact Person	Contact No.
	<u> </u>	l
		Signature of Bidde
	Name:	
	Designation:	
	Organization Name:	
	O' Sameation 1 tames .	

PRICE REASONABILITY CERTIFICATE (ON THE LETTER HEAD OF THE COMPANY)

Annexure-IV

It is certified that the rates quoted against Tender No. Dated for the items vide our bid No. dated
are exclusively for supply to ACADEMIC and RESEARCH Institutions and are not more than as charged to other Govt. /PSU 's /Autonomous bodies for similar supplies-made in recent past. It is further certified that we have offered the maximum possible discount to IIT Delhi in our Quotation No.
dated for (currency) The
quoted price is the minimum. We will not offer the lower rates to any other customer (Govt. /PSU's /Autonomous bodies), till the validity of offer or execution of purchase order, whichever is later. If they have been approved by the Director, IIT Delhi and if at any stage it has been found that quoted rates are higher, then in such conditions IIT Delhi, will have the right to cancel the approved rates and to take legal action against the tenderer.
Yours faithfully,
(Name of manufacture)
(Signature with date) (Name and designation)

Duly authorized to sign tender for and on behalf of

ORIGINAL EQUIPMENT MANUFACTURING (OEM) MANUFACTURING AUTHORISATION FORM

(On Letter Head of Manufacturer)

Annexure-V

Tender No.:	Date:
To The Director, Indian Institute of Technology Delhi, New Delhi- 110016	
Dear Sir,	
We manufactures of original equipment at (ss of Agent) to submit a bid,
We hereby extend our full guarantee and warranty as per clause	of the terms and
Yours Faithfully,	
(Name)	
(Name & Seal of manufactures)	

Note:- This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by bidder in its techno-commercial unpriced bid.

Bid Submission

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

Envelope – 1 (Following documents to be provided as single PDF file)			
(Following documents to be provided as single PDF file)			
Sl. No.	Document	Content	File Types
1.	Technical	Compliance Sheet as per Annexure - I	.PDF
2.	Bid	Organization Declaration Sheet as per Annexure - II	.PDF
3.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF
4.		Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)	.PDF
5.		PRICE REASONABILITY CERTIFICATE as per Annexure - IV	.PDF
6.		ORIGINAL EQUIPMENT MANUFACTURING (OEM) MANUFACTURING AUTHORISATION FORM as per Annexure - V	.PDF
	Envelope – 2		
Sl. No.	Document	Content	
1.	Financial	Price bid should be submitted in given BOQ_XXXX.xls format.	.XLS
	Bid	(Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as 'Optional' in the specs is not to be included for overall comparison.) Bids for optional items are to be submitted in 'sheet2_Quote for optional items'	