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

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

Dated/ दिनांक: 05/07/2018

#### Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/BCHE(SP-1721)/2018

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	High pressure fixed bed reactor
Earnest Money Deposit to be submitted बयाना जमा करने के लिए जमा राशि	Rs. 20,000
Warranty वारंटी अवधि	3 Years/3 साल
Performance security निष्पादन सुरक्षा	5% of FOB value एफओबी मूल्य का 5%

Tender Documents may be downloaded from Central Public Procurement Portal <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>. 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 इच्छुक 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 'ऑनलाइन 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 <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a> 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**

Name of Organization	Indian Institute of Technology Delhi
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Source of Fund (Institute/Project)	Budget Code: Equipment / Project Code RP03506G
Is Multi Currency Allowed	No
Date of Issue/Publishing	05/07/2018 (12:00 Hrs)
Document Download/Sale Start Date	05/07/2018 (12:00 Hrs)
Document Download/Sale End Date	27/07/2018 (15:00 Hrs)
Date for Pre-Bid Conference	NA
Venue of Pre-Bid Conference	NA
Last Date and Time for Uploading of Bids	27/07/2018 (15:00 Hrs)
Date and Time of Opening of Technical Bids	30/07/2018 (15:00 Hrs)
Tender Fee  EMD	Nil (Tender Fee) Rs. 20,000/- (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 Declaration Sheet at Annexure-II)
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	60 days (From last date of opening of tender)
Address for Communication	Dr. Divesh Bhatia, Department of Chemical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016
Contact No.	011-2659 1456
Fax No.	
Email Address	dbhatia@chemical.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 सार्वजनिक 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: <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>

## **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>) 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।

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ). क्छ मामलों में वित्तीय बोलियां पीडीएफ प्रारूप में भी जमा की जा सकती हैं (BOQ के बदले)

- 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 अनिधकृत व्यक्तियों द्वारा बोली खोलने के समय तक नहीं देखा जा सकता है। बोलियों की गोपनीयता को सुरक्षित 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 अन्पालन पत्रक की एक पीडीएफ फाइल में सभी प्रासंगिक दस्तावेजों के स्कैन किए गए पीडीएफ को जोड़
  - कृपया अनुपालन पत्रक की एक पीडीएफ फाइल में सभी प्रासंगिक दस्तावर्जी के स्कैन किए गए पीडीएफ़ की 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 <a href="http://eprocure.gov.in/eprocure/app">http://eprocure/app</a> . 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 which in authorized certifying agencies, details of are available the web 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 प्रस्तृत 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 जिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।

## Department of Chemical Engineering Indian Institute of Technology Hauz Khas, New Delhi-110 016

#### **NOTICE INVITING QUOTATIONS**

Dated: 05/07/2018

## Subject: Commissioning of a high pressure fixed bed reactor

#### **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, installation & integration of a high pressure fixed bed reactor with three years 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 <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>

#### TECHNICAL SPECIFICATIONS

The required fixed bed reactor setup is intended to be used for study of various reactions using a simulated mixture of gases over different catalysts. The system will have six gas inputs (viz. H<sub>2</sub>, CO, H<sub>2</sub>S, N<sub>2</sub>, CO<sub>2</sub> and CH<sub>4</sub>). The gases will be supplied from pressurized gas cylinders. The system would have one liquid input (pure H<sub>2</sub>O) which would be heated to get a required flow rate of water vapor to be mixed with the gases. The system would also be equipped with a syringe pump for delivery of a known mass flow rate of benzene diluted by a carrier gas to the gas mixture. Mass flow controllers would be used for controlling the flow rates of the various species. The gases would be preheated and carried to the INC-800T metal to metal seal tube reactor. The reactor tube would contain the catalyst material sandwiched into place by glass wool. The tube would be mounted into a split-tube furnace. Samples would be taken from the gases entering and exiting the reactor tube which would be analyzed for their composition by an online gas chromatography unit. The entire assembly would be controlled and monitored using Labview software-based GUI.

Serial	Item	Description
No.		
Reacto	or and furnace	module
1	Reactor	Autoclave engineers INC-800T metal to metal seal tube reactor 10 mm ID X 15 mm OD X 300 mm (slight variation in dimension is acceptable based on availability of standard dimensions)
		Operating temperature: 25-1100 °C
		Typical operating pressure: 0-30 barg
		Should be able to study monolith catalysts as well as catalysts in powder/bead form
		Gas-liquid separator /condenser to be provided so that products from the reactor (both gas and liquid) should be collected and available to be analyzed in a separate analytical equipment. Analytical equipment is not in the scope of this tender.
2	Furnace	ATS Split tube furnace One zone heating Design temp: 1100 °C Heated length: 10 inches (254 mm)

2	G: .	
3	Static mixer	Swagelok static mixer
	for various	Design pressure: 30 barg Operating temperature: 300 °C
	species along	MOC: SS316
	with pre- heater for gas	MOC. 55510
	and vapor	
Cocor	nd liquid feed m	nodulo
1	Gas flow	System to be capable of flowing 6 gases to the reactor with Sandvik gas flow lines. A
	lines	by-pass line should be provided through which the flow will go into the analytical equipment.  Each gas line should be with BHU, filter, Wika pressure gauge, MFC and check valve for a 1/4" OD connection (with all Swagelok fittings). Wika pressure transmitter to be provided.
2	Gas mass	Brooks MFCs for the following 6 gases:
	flow	$H_2$ : 10 – 500 ml/min
	controller	CO: 10 – 500 ml/min
		CO <sub>2</sub> : 10 – 500 ml/min
		N <sub>2</sub> : 2 – 100 ml/min
		CH <sub>4</sub> : 1-50 mL/min 10% H <sub>2</sub> S in N <sub>2</sub> : 1-5 mL/min
		Note that the above mentioned flow rates should be achievable at the typical
		operating reactor pressures
		Cables to connect mass flow controller to power supply/readout unit to be provided
		Specifications: Accuracy: Better than +/- 1% of set point (20-100% full scale) and +/- 0.2% of full scale (2-20% full scale) Repeatability: +/- 0.2% of set point or better Max. Operating Pressure: >=100 bar Ambient temperature Range: 5 to 65 °C or broader Control range 100:1 turndown for full scale
3	Liquid line	Appropriate seals as per the gas used Liquid line (1/8" OD) should include feed tank, filter, bottom three way valve, check
3	Liquid iiie	valve, pressure relief valve, Wika pressure gauge and three way valve for flow check.  Swagelok fittings and Wika pressure transmitter to be provided.  Closed-end and jacketed SS316 tank of 1 liter capacity to be provided for water dispensing  Vaporizer to produce water vapor and benzene vapors at the design pressure should be provided.
4	Pump	SSI pump for flow of water. Flow range 0.01-5 mL/min. Design pressure: 30 barg
5	Syringe pump	Teledyne syringe pump for providing benzene liquid flow rate in the range of 0.005 mL/min to 0.1 mL/min (concentration requirement is 10 ppmv to 1000 ppmv in the gas phase). Flow accuracy should be 0.5% of setpoint or better. Wetted material should be such that it is able to withstand benzene. Drivers for LabVIEW graphical programming software from National Instruments should be provided.
Auton	nation and data	acquisition

1	system	There should be provisions of Process Graphics Animation with Loop Screen for all Control, Real Time Trending, Historical Trending Manual Data Entry Tags, Twenty Steps Automatic Recipe Module, for unattended operation, Alarms, Report with Automatic Storage in M.S. Excel format, System Dynamic Data Exchange, and System Diagnosis & Security. Programming to be done by the vendor. Please note that IIT Delhi has a license for labview software. A temporary labview license can be obtained from the distributor for programming.
2	Structure	Structure/skid material should be Aluminum with a strut profile.
Acces	ssories and other	components
1	Pressure gauge	8 nos. of Wika pressure gauges Digital display Safety head for pressure. Both soft pop up and blow off.
2	Thermo-couple	7 nos. of Watlow thermocouples with thermowell
3	Heating tape	HTS Amptek heating tape should be sufficient to cover piping. Pipes connecting the reactor to the cylinders and the analysis equipment to be wrapped by heating tape to prevent condensation
4	CO sensor	1 portable Honeywell sensor with 0-300 ppm detection level
5	H <sub>2</sub> sensor	1 portable Honeywell sensor with 0-100% LEL detection level Fitted with suitably approved Ex e or Ex tb junction box
6	Automatic back pressure controller	Jordan Valve automatic back pressure controller with an operating pressure of 0-30 barg MOC: SS 316
7	Rupture disc	BS&B rupture disk with SS 316 as MOC
8	Fittings	Check valves, ball valves, three way valves, BHU, filters, tee, unions, reducers, isolation valves, pressure safety valve and other fittings based on requirement Swagelok fittings with SS316 as MOC.
9	Computer	Windows-7 based computer for data acquisition and software installation should be provided. Minimum 4 GB RAM, 1 TB HDD and 64 bit operating system.
10	P&ID	P&ID to be provided
11	Additional requirements	All lines should be well insulated. Entire system should be movable skid-mounted and enclosed with polycarbonate sheet. Safety measures should be provided. Operating manual for the individual components as well as the reactor system needs to be provided.

PLC based control system with labview software and National Instruments hardware.

# The following are the optional components

Control

Serial	Item	Description
No.		
1	Spare parts	Thermocouple with thermowell: 03 Nos.
		Nut & ferrule Set: 05 Nos
		SSR: 01 No
		Rupture disk: 2 Nos.

		Heating tape: 5 meters
2	Additional warranty	2 years comprehensive on-site warranty
3	Online UPS	5 kVA online UPS with 10 minutes backup

#### Specific terms and conditions

- A statement of compliance of quoted product with respect to the desired specifications mentioned above should be included as a part of the technical bid. The product specification data sheets/brochures must be enclosed in support of the compliance statement. Deviations in technical specifications, if any, should be clearly stated. In the technical compliance statement, you need to mention the actual specification of the material in addition to writing a Yes or a No. The technical bids submitted without detailed technical specification/data sheets/brochures and compliance statement will be rejected.
- The bidder should have supplied at least 3 high pressure flow reactors of design pressure >=30 barg in the last two years (July 2016 June 2018). The necessary copies of purchase orders/installation & commissioning certificates should be enclosed with the technical bid.
- The **financial bid should indicate item wise price** for the items mentioned in the technical bid.
- Quotations should include all the terms and conditions i.e. all applicable taxes, freight, installation and other miscellaneous chargers, terms of warranty and delivery schedule.
- A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.

A complete set of tender documents\* may be Download by prospective bidder free of cost from the website <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>. 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.	<b>Due date</b> : 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.	<b>Preparation of Bids</b> : 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 PDF format.
	The Technical bid and the financial bid should be submitted Online.
3.	<b>EMD</b> ( <b>if applicable</b> ): The tenderer should submit an EMD amount through RTGS/NEFT. The 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.	<b>Refund of EMD</b> : 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.	<b>Performance Security</b> : 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.

9. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated 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. Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated 10. 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 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. 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 14. 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. 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."

15. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

Purchaser: Dr. Divesh Bhatia,

Department of Chemical Engineering, 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:
  - 1. Quantity offered for inspection and date;
  - 2. Quantity accepted/rejected by inspecting agency and date;
  - 3. Quantity dispatched/delivered to consignees and date;
  - 4. Quantity where incidental services have been satisfactorily completed with date;
  - 5. Quantity where rectification/repair/replacement effected/completed on receipt of 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

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	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.	<b>Resolution of Disputes</b> : 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
24	company as per his convenience. IITD will not be liable to any type of losses in any form.
24.	<b>Insurance:</b> 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
25.	insurance should be up to IIT Delhi. Incidental services: The incidental services also include:
23.	
ĺ	• 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 lake 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
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.	<ul> <li>Notices</li> <li>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.</li> <li>A notice shall be effective when delivered or on the notice's effective date, whichever is later.</li> </ul>
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 ie. Master Airway Bill No. and House Airway No. (if exists) b) Forwarder details ie. 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.  73.  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 sic of installation in faultless working condition for good 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 pro		
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availability and names of Application specialist and solvice Engineers in the hearest regional office.	50.	
(Ref. to Annexure-III)		
· · · · · · · · · · · · · · · · · · ·	27	
37. <b>Site Preparation</b> : The supplier shall inform to the Institute about the site preparation, if any, needed	31.	
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		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 pre-installation 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:

- ii. 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.

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.

#### 40. **Termination for Default**

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:
  - i. "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.	<b>Shifting</b> : 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.	<b>Downtime:</b> 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.	<b>Training of Personnel:</b> 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.	<b>Disputes and Jurisdiction</b> : 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

S. No.	Item	Description	Compliance (Y/N) along with the actual technical specification
React	or and furna	<u> </u>	<b>,</b>
1	Reactor	Autoclave engineers INC-800T metal to metal seal tube reactor 10 mm ID X 15 mm OD X 300 mm (slight variation in dimension is acceptable based on availability of standard dimensions)  Operating temperature: 25-1100 °C  Typical operating pressure: 0-30 barg  Should be able to study monolith catalysts as well as catalysts in powder/bead form  Gas-liquid separator /condenser to be provided so that products from the reactor (both gas and liquid) should be collected and available to be analyzed in a separate analytical equipment. Analytical equipment is not in the scope of this tender.	
2	Furnace	ATS Split tube furnace One zone heating Design temp: 1100 °C Heated length: 10 inches (254 mm)	
3	Static mixer for various species along with pre-heater for gas and vapor	Swagelok static mixer Design pressure: 30 barg Operating temperature: 300 °C MOC: SS316	
Caca	nd liquid fee	d module	
1	Gas flow lines	System to be capable of flowing 6 gases to the reactor with Sandvik gas flow lines. A by-pass line should be provided through which the flow will go into the analytical equipment.  Each gas line should be with BHU, filter, Wika pressure gauge, MFC and check valve for a ½" OD connection (with all Swagelok fittings).  Wika pressure transmitter to be provided.	
2	Gas mass flow controller	Brooks MFCs for the following 6 gases:  H <sub>2</sub> : 10 – 500 ml/min  CO: 10 – 500 ml/min  CO <sub>2</sub> : 10 – 500 ml/min  N <sub>2</sub> : 2 – 100 ml/min  CH <sub>4</sub> : 1-50 mL/min  10% H <sub>2</sub> S in N <sub>2</sub> : 1-5 mL/min  Note that the above mentioned flow rates should be achievable <b>at the</b>	

		typical operating reactor pressures	
		Cables to connect mass flow controller to power supply/readout unit to	
		be provided	
		Specifications:	
		Accuracy: Better than +/- 1% of set point (20-100% full scale) and +/-	
		0.2% of full scale (2-20% full scale)	
		Repeatability: +/- 0.2% of set point or better	
		Max. Operating Pressure: >=100 bar	
		Ambient temperature Range : 5 to 65 °C or broader	
		Control range 100:1 turndown for full scale	
	7	Appropriate seals as per the gas used	
3	Liquid	Liquid line (1/8" OD) should include feed tank, filter, bottom three way	
	line	valve, check valve, pressure relief valve, Wika pressure gauge and three	
		way valve for flow check. Swagelok fittings and Wika pressure	
		transmitter to be provided.	
		Closed-end and jacketed SS316 tank of 1 liter capacity to be provided	
		for water dispensing	
		Vaporizer to produce water vapor and benzene vapors at the design	
		pressure should be provided.	
4	Pump	SSI pump for flow of water. Flow range 0.01-5 mL/min. Design	
		pressure: 30 barg	
5	Syringe	Teledyne syringe pump for providing benzene liquid flow rate in the	
	pump	range of 0.005 mL/min to 0.1 mL/min (concentration requirement is 10	
		ppmv to 1000 ppmv in the gas phase). Flow accuracy should be 0.5% of	
		setpoint or better. Wetted material should be such that it is able to	
		withstand benzene. Drivers for LabVIEW graphical programming	
		software from National Instruments should be provided.	
		lata acquisition	
1	Control	PLC based control system with labview software and National	
	system	Instruments hardware. There should be provisions of Process Graphics	
		Animation with Loop Screen for all Control, Real Time Trending,	
		Historical Trending Manual Data Entry Tags, Twenty Steps Automatic	
		Recipe Module, for unattended operation, Alarms, Report with	
		Automatic Storage in M.S. Excel format, System Dynamic Data  Exchange and System Diagnosis & Security Programming to be done	
		Exchange, and System Diagnosis & Security. Programming to be done by the vendor. Please note that IIT Delhi has a license for labview	
		software. A temporary labview license can be obtained from the	
		distributor for programming.	
2	Structure	Structure/skid material should be Aluminum with a strut profile.	
Acces	ssories and o	ther components	
1	D	0 63371	
1	Pressure	8 nos. of Wika pressure gauges	
	gauge	Digital display	
		Safety head for pressure.	
	TOTAL CONTRACTOR OF THE PARTY O	Both soft pop up and blow off.	
2	Thermo-	7 nos. of Watlow thermocouples with thermowell	
2	couple	LITS Amentals hooting tong should be sufficient to account in its D'	
3	Heating	HTS Amptek heating tape should be sufficient to cover piping. Pipes	
	tape	connecting the reactor to the cylinders and the analysis equipment to be	

		I was an all hardens do not a serve de la contraction	
		wrapped by heating tape to prevent condensation	
4	CO sensor	1 portable Honeywell sensor with 0-300 ppm detection level	
5	H <sub>2</sub> sensor	1 portable Honeywell sensor with 0-100% LEL detection level	
		Fitted with suitably approved Ex e or Ex tb junction box	
6	Automatic	Jordan Valve automatic back pressure controller with an operating	
	back	pressure of 0-30 barg	
	pressure	MOC: SS 316	
	controller		
7	Rupture	BS&B rupture disk with SS 316 as MOC	
	disc		
8	Fittings	Check valves, ball valves, three way valves, BHU, filters, tee, unions,	
		reducers, isolation valves, pressure safety valve and other fittings based	
		on requirement Swagelok fittings with SS316 as MOC.	
9	Computer	Windows-7 based computer for data acquisition and software	
		installation should be provided. Minimum 4 GB RAM, 1 TB	
		HDD and 64 bit operating system.	
10	P&ID	P&ID to be provided	
11	Additional	All lines should be well insulated.	
	requireme	Entire system should be movable skid-mounted and enclosed with	
	nts	polycarbonate sheet.	
		Safety measures should be provided.	
		Operating manual for the individual components as well as the reactor	
		system needs to be provided.	

S.	Item	Description	Compliance
No.			(Y/N)
1	Spare	Thermocouple with thermowell: 03 Nos.	
	parts	Nut & ferrule Set: 05 Nos	
		SSR: 01 No	
		Rupture disk: 2 Nos.	
		Heating tape: 5 meters	
2	Additional	2 years comprehensive on-site warranty	
	warranty		
3	Online	5 kVA online UPS with 10 minutes backup	
	UPS	_	

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

We,	hereby certify that all the information and data furnished by our
, <del></del>	on are true and complete to the best of our knowledge. I have gone
	ons in details and agree to comply with the requirements and intent
of specification.	
This is certified that our organization has been au	nthorized (Copy attached) by the OEM to participate in Tender. We
_	e conditions of eligibility criteria laid down in this tender document.
Moreover, OEM has agreed to support on regular	basis with technology / product updates and extend support for the
warranty.	
The prices quoted in the financial bids are subsidir	zed due to academic discount given to IIT Delhi.
We, further specifically certify that our	NAME & ADDRESS OF
organization has not been Black Listed/De	THE Vendor/ Manufacturer / Agent
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

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# List of Govt. Organization/Deptt.

List of Government Organizations for who		ork during last three
years (must be supported with work orders) Name of the organization	Name of Contact Person	Contact No.
Name of application specialist / Service Ensupport the quoted product during the warr		tency to handle and
Name of the organization	Name of Contact Person	Contact No.
		Signature of Bidder
	Name:	
	Organization Name:	

# **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)				
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	
		Envelope – 2		
Sl. No.	Document	Content		
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF	

## Department of Chemical Engineering Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

Date: XX/XX/XXXX

Subject: Purchase of a high pressure fixed bed reactor (Following format is used for imported items)

S.	Currency	Description and Specification of	Otv.	Unit	Agency	Discount	Ex-works	Packing +	FOB/FCA	Insurance	CIF Price
No.		the Item	in	Price			price	Handling		+ Freight	(f+g)
			Units		(If		(d=a+b-c)	_	Price	(g)	. 0,
				(a)	applicable)	(c)		Inland	(f=d+e)		
					(b)			Freight +			
								FCA			
								Charges			
								(e)			
1		High-pressure fixed bed									
		reactor									

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the material to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.

For indigenous items please quote as per following format.

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S.	Description and Specification of the	Qty. in Units	Unit Price in	GST%	Total Price in Rs.				
No.	Item		Rs.						
1.	High-pressure fixed bed reactor								
2.									

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender.