# Notice Inviting Quotation (E-Procurement mode)

कोटेशन को आमंत्रित करने की सूचना (इ-प्रोक्योमेंट मोड)

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

Dated/ दिनांक : 19/08/2020

## Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/CART(SP-3117)/2020

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	Oscilloscope with CAN/LIN and Recorder (2 QTY.)
Earnest Money Deposit to be submitted बयाना जमा करने के लिए जमा राशि	<b>Rs./</b> रुपये NIL
Warranty वारंटी अवधि	3 Years/3 साल
Performance security निष्पादन सुरक्षा	NIL
Delivery Schedule	4 to 8 Weeks

Tender Documents may be downloaded from Central Public Procurement Portal <u>http://eprocure.gov.in/eprocure/app</u>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <u>http://eprocure.gov.in/eprocure/app</u>. 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 <u>http://eprocure.gov.in/eprocure/app</u> 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 मैन्य्अल बोली स्वीकार नहीं की जाएगी। सभी कोटेशन (तकनीकी और वित्तीय दोनों को ई-प्रोक्योरमेंट पोर्टल में जमा करना चाहिए)

## SCHEDULE

Email Address	akhil@cart.iitd.ac.in
Contact No.	011-26598450 (office) 8196874583 (Mobile)
Address for Communication	Dr. Akhil Garg CART (formerly ITMMEC) Indian Institute of Technology, Delhi Hauz Khas, New Delhi- 110016
Bid Validity days (180/120/90/60/30)	90 Days (From last date of opening of tender)
No. of Covers (1/2/3/4)	02
Tender Fee EMD	RsNIL/- (For Tender Fee)RsNIL/- (For EMD)(To be paid through RTGS/NEFT. IIT Delhi Bank details are as under:Name of the Bank A/C: IITD Revenue AccountSBI A/C No.: 10773572622Name of the Bank: State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016IFSC Code: SBIN0001077MICR Code: 110002156Swift No.: SBININBB547(This is mandatory that UTR Number is provided in the on- line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)
Date and Time of Opening of Technical Bids	
Last Date and Time for Uploading of Bids	16/09/2020 (15:00 Hrs) 17/09/2020 (15:00 Hrs)
Document Download/Sale End Date	16/09/2020 (15:00 Hrs)
Document Download/Sale Start Date	19/08/2020 (14:00 Hrs)
Date of Issue/Publishing	19/08/2020 (14:00 Hrs)
Is Multi Currency Allowed	YES
Source of Fund (Institute/Project)	Project Code: PLN 12/02
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Buy
Tender Category (Services/Goods/works)	Goods
Tender Type (Open/Limited/EOI/Auction/Single/Global)	Open
Name of Organization	Indian Institute of Technology Delhi

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:

http://eprocure.gov.in/eprocure/app

## **REGISTRATION**

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

## <u>SEARCHING FOR TENDER DOCUMENTS/</u> निविदा दस्तावेजों के लिए खोजना

 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।

## <u>PREPARATION OF BIDS /</u> 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 (अस्रक्षित) 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 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 पीडीएफ़ को जोड़ दें।

## <u>ASSISTANCE TO BIDDERS /</u> 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।

 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

- The tenders will be received online through portal <u>http://eprocure.gov.in/eprocure/app</u>. 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 II / III 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 जरिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।

#### Centre for Automotive Research and Tribology (CART) Indian Institute of Technology Hauz Khas, New Delhi-110 016

## **NOTICE INVITING QUOTATIONS**

## Subject: Purchase of Oscilloscope with Data Logger Facility

#### **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 Oscilloscope with CAN/LIN and Recorder (2 QTY.)** 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 <u>http://eprocure.gov.in/eprocure/app</u>

#### **Purpose of Equipment:**

Oscilloscope with data logging/recording facility to take measurements of isolated voltage, Current, temperature, Strain, Acceleration, Frequency and perform CAN/LIN analysis.

Sr. No	Part Name	Part(s)	Specifications details
1.	Oscilloscope with Data Logger Facility	Hardware	Modular design to incorporate different plug- in modules to enable simultaneous measurements of isolated voltage, Current, temperature, Strain, Acceleration, Frequency and Automotive CAN/CANFD/LIN protocols.
		Slots	Should have at least 8 slots for different plug- in modules.
		Sampling frequency	Minimum supported sampling rate 100MS/s
		Memory	Internal HDD capability of 500GB or more
		Record Length	Record length-250MPts or more
		Inputs	Minimum Number of input Ch (analog, non-isolation, Scan type)- 128 or more)
		Display	Display: 10.4- inch or more TFT color LCD monitor with 1024×768 resolution integrated with the product.
		Max time Axis Setting Range	100 ns/div—20 Day/Div
		Interface	USB, Ethernet, Video output, SD Card slots (32GB or more) to be

			available.
		History memory	5000 waveforms or more
		Parameter measurement	Amplitude, peak to peak values, RMS, rise time, frequency etc. up to 32 Items can be displayed. Cycle and History statistics to be available.
		Action on Trigger	Provision to Save waveform, Screen image, buzzer ,mail on triggered action item
		Trigger	Edge, Time, OR, AND, Period, Pulse Width, Wave Window, A- >B (N), A Delay B, Single N
		Zoom	High-speed zoom in to 2 Billion samples and should have 2 separate zoom windows for analysis
		Sampling	Simultaneous recording of waveform at two different sampling rates
		Software Other Features	<ul> <li>a) Software for continuous data recording to a PC, display acquired waveforms, transfer files, control instruments remotely, Offline analysis</li> <li>b) Continuous PC based data acquisition.</li> </ul>
			<ul> <li>a) Provision to Retain the current displayed waveform on the screen</li> <li>b) Dedicated Key to prevent from careless or unexpected operation</li> </ul>
2.	Analog Module	Sample rate	Minimum 10MS/s
		A/D resolution	Minimum 12 bit
		Voltage input Bandwidth	800V( DC+AC peak ) or more Minimum 3MHz
		NoofChannelsCMRR	2 (Isolated, BNC) 80 dB (50/60 Hz)

3.	Strain Module	Bandwidth	DC to 20 kHz
		No of channels	2 (auto balancing, balanced differential input, and isolated)
			$\begin{array}{c} 1301 \text{ acc} \text{ of } 120 \ \Omega \text{ to } 1000 \ \Omega \text{ (bridge voltage:} \\ 2 & \text{V} \end{array}$
		Gauge resistance	$\begin{array}{c} 2 \\ 350 \ \Omega \text{ to } 1000 \ \Omega \text{ (bridge voltage:} \\ 2 \ V, 5 \ V, \text{ and } 10 \ V) \end{array}$
		Gauge factor	1.90 to 2.20
		Measurement	20000 μSTR or more, mV/V support also to be available
4.	Temperature Module	Input channels	16(Isolated unbalanced)
		Input coupling	TC (thermocouple), DC, GND
		Supported Types	K,E,J,T,L,U,N,R,S,B,W,KP/Auf e
		A/D resolution	16 Bit
		Burnout detection function	ON/OFF available on channel basis
		External scanner box	To be provided for connecting TC
		Data Update	100 ms, 300 ms, 1 s, and 3 s
5.	<b>Frequency</b> <b>module</b>	Measurement function	Frequency (Hz), RPMs, RPSs, period (s), duty cycle (%), power supply frequency (Hz), pulse width (s), pulse integration, and velocity
		No of channels A/D	2(Isolated)
		Resolution Max input	16 bit
		voltage Measuring Range	420V 500KHz or more with sensitivity 0.1 Hz/div to 100 kHz/div
		Update rate Minimum	1 MHz
		measurement resolution	625ps

		Bandwidth	Full/100 Hz/1 kHz/10 kHz/100
		limit	kHz
6.	Acceleration	Input	2 (Isolated)
0.	Module	Channels	2 (13014100)
		Chambris	Acceleration: 0.4 Hz to 40 kHz
		Sample rate	Voltage: DC to 40 kHz
		Bandwidth	Full/Auto (AAF)/40 Hz/400 Hz/4
		limit	kHz
		Anti-aliasing	fc:fs $\geq$ 100 Hz : fc = fs $\times$ 40%
		filter (AAF)	$fs \le 50 Hz$ : $fc = 20 Hz$
		Sensor	
		supply	OFF/4 A 100/ (
		current	OFF/4 mA $\pm 10\%$ (approx. 22
		(voltage)	VDC)
		Acceleration	
		sensors	
		support	PCB, ICP, Isotron etc
7.	CAN /LIN		CAN and LIN port - 1NO
	720241	Terment an outer	(Isolated -across port and main
		Input ports Maximum	unit, across each port))
		sampling rate	100 kS/s
		Input	100 KB/3
		connector	D-sub 9-pin (male)
		Maximum	
		allowable	
		common	
		mode voltage	30 Vrms
		Input	
		channel	60-signal/port
		LIN port	
		specification	
		Maximum	-1 V to $+18$ V( (LIN input to
		• . •	CNID
		input voltage	GND)
		Supported bit	
		Supported bit rate	GND) 2400, 9600, 19200 bps
		Supported bit	
		Supported bit rate CAN Port	2400, 9600, 19200 bps
		Supported bit rate CAN Port specification Maximum	2400, 9600, 19200 bps -3 V to +10 V(CAN_H,CAN_L
		Supported bit rate CAN Port specification	2400, 9600, 19200 bps -3 V to +10 V(CAN_H,CAN_L input to GND)
8.	CAN/CANFD	Supported bit rate CAN Port specification Maximum input voltage	2400, 9600, 19200 bps -3 V to +10 V(CAN_H,CAN_L

		Input	
		channels	60 signals/port
		Input	
		connector	D-Sub 9-pin (male)
		Maximum	
		sample rate	100 kS/s
		Bit rate	10 k up to 1 Mbps
		Flexible data	
		rate	1 M, 2 M, 3 M, 4 M, 5 Mbps
		Allowable	3 V to +10 V (CAN_H,CAN_L
		voltage range	input to GND)
			Single shot
		Output	Specified ID (Data) can be
		function	outputted manually
	Voltage Probes	1:1 Safety	
9.	Ŭ	BNC adapter	
		lead	1000 Vrms CAT II
		Alligator clip	1000 Vrms CAT II and 300
		adaptor set	Vrms CAT II

#### LIST OF DELIVERABLES

S.No	DESCRIPTION	QTY
1.	Oscilloscope with Data Logger Facility &	2 Set
	Software	
2.	Analog Module	6 Set
3.	Strain Module	2 Set
4.	Temperature Module	2 Set
5.	Frequency Module	2 Set
6.	Acceleration Module	2 Set
7.	CAN/LIN Module	1 Set
8.	CAN/FD Module	1 Set
9.	Voltage Probe & Accessories	8 Set

#### **Technical Bid must contain the following:**

- a. Sole agency certificate and its validity from Foreign Principals (in case of foreign manufacturer).
- b. Proprietary Certificate (if applicable, for any component or instrument quoted).
- c. Delivery period should be specifically mentioned and should be as small as possible.
- d. Details on Installation, commissioning and training of equipment must be specified.

e. Certificate of compliance (with signature) with deviations from the specifications (if any) must be attached. Without this the quotation will not be considered.

f. Client list is essential. The Vendor must have supplied the similar systems to reputed industries and Academic Institutes such as IITs and NITs. Purchase order copy of such orders should be submitted along with technical offer.

g. Vendor should provide continuous technical support and maintenance or equipment during warranty period of 3 year from date of installation without any charges.

h. Supplier should have a local team to provide support for Installation and after sales support in India

A complete set of tender documents\* may be Download by prospective bidder free of cost from the website <u>http://eprocure.gov.in/eprocure/app</u>. 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 pdf format.
	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
	anything asked as 'Optional' in the specs is not to be included for overall comparison.
3.	EMD (if applicable): 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.	<b>Opening of the tender</b> : 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-gualification 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.
	une of experimental effect of any begins are date of completion of manually 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.
	<ul> <li>For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier</li> </ul>
	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.
	<ul> <li>If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of</li> </ul>
	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.	<b>Risk Purchase Clause</b> : 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
11	source on the total risk of the supplier under risk purchase clause.
11.	<b>Packing Instructions</b> : Each package will be marked on three sides with proper paint/indelible ink, the following:
	i. Item Nomenclature
	ii. Order/Contract No.
	<ul><li>iii. Country of Origin of Goods</li><li>iv. Supplier's Name and Address</li></ul>
	v. Consignee details
	vi. Packing list reference number
12.	Delivery and Documents:
	Delivery of the goods should be made within a maximum of 04 to 08 weeks (for goods ready for
	shipment) & Maximum (To be filled by Purchaser) weeks (For special/ to be fabricated goods) from
	<i>the date of the opening of LC.</i> 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
	<ol> <li>unit price, total amount;</li> <li>Insurance Certificate if applicable;</li> </ol>
	<ol> <li>A. Manufacturer's/Supplier's warranty certificate;</li> </ol>
	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.	<b>Delayed delivery:</b> 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.
14.	<b>Prices</b> : 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. 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,
<b>č</b>
<b>Notices:</b> For the purpose of all notices, the following shall be the address of the Purchaser and
••
8
Supplier: (To be filled in by the supplier)
(An supplier 5 should submit its supplies mormation as per Amexare-11).
<b>Progress of Supply</b> : Wherever applicable, supplier shall regularly intimate progress of supply, in
<b>Progress of Supply</b> : Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:
writing, to the Purchaser as under:
<ul><li>writing, to the Purchaser as under:</li><li>1. Quantity offered for inspection and date;</li></ul>
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Center for Automotive Research and Tribology (Formerly ITMMEC)         Indian Institute of Technology, Delhi         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).
Center for Automotive Research and Tribology (Formerly ITMMEC)
Purchaser: Dr. Akhil Garg
Supplier.
anything asked as 'Optional' in the specs is not to be included for overall comparison.
Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and
Otherwise these charges will be recovered from the supplier/Indian Agent."
address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs).
indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will
special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please
In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under
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payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate
navment of Excise Duty and is aligible for concessional rate of outtom duty. Nacassary contificate

	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.
	<ul> <li>Successful conduct and conclusion of the acceptance test for the installed goods and equipment</li> </ul>
	• Successful conduct and conclusion of the acceptance test for the instance 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:
10.	• 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.
10	• The venue of the arbitration shall be the place from where the order is issued.
19. 20.	Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA.Right to Use Defective Goods
20.	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
21.	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
22.	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
23.	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.
	us per une suppry 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.	
27.	<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 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.	<ul> <li>Warranty:</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>
	<ul> <li>installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components.</li> <li>(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 will not be included in computing the total cost of the equipment.</li> </ul>
27.	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.

	Ear research sumsee(s) ONLY 50/ CCT will be englischle with concessional CCT Cartificate
21	For research purpose(s) <b>ONLY</b> , 5% GST will be applicable with concessional GST Certificate.
31.	<ul> <li>Duties</li> <li>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.</li> <li>a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)</li> <li>b) Forwarder details i.e. Name, Contact No., etc.</li> </ul>
	<ul> <li>IIT Delhi is partially exempted from paying GST and necessary GST Exemption Certificate will be provided for which following information are required.</li> <li>b) Quotation with details of Basic Price, Rate, Tax &amp; Amount on which ED is applicable</li> <li>c) Supply Order Copy</li> <li>d) Proforma-Invoice Copy.</li> </ul>
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:
34.	<ul> <li>(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.</li> <li>(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.</li> <li>(iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation &amp; commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&amp;D registration for restricted items.</li> <li>(iv) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.</li> </ul>
54.	educational establishments where the items enquired have been supplied must be provided. (Ref.
25	Annexure-III)
35.	<ul> <li>Manuals and Drawings</li> <li>(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.</li> <li>(ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the</li> </ul>
	contract.

	(iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the
2.6	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 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.
39.	<b>Defective Equipment</b> : 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.	<b>Compliancy certificate</b> : This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)

## **COMPLIANCE SHEET**

#### **TECHNICAL SPECIFICATION**

Sr. No	Part Name	Part(s)	Specifications details	Compliance (Y/N)
1.	Oscilloscope with Data Logger Facility	Hardware	Modular design to incorporate different plug- in modules to enable simultaneous measurements of isolated voltage, Current, temperature, Strain, Acceleration, Frequency and Automotive CAN/CANFD/LIN protocols.	
		Slots	Should have at least 8 slots for different plug- in modules.	
		Sampling frequency Memory	Minimumsupportedsampling rate100MS/sInternalHDDcapabilityof500GBor more	
		Record Length Inputs	Record length-250MPts or more         Minimum Number of input Ch (analog, non-isolation,	
		Display	Scan type)- 128 or more) Display: 10.4- inch or more TFT color LCD monitor with 1024×768 resolution integrated with the product.	
		Max time Axis Setting Range	100 ns/div—20 Day/Div	
		Interface	USB, Ethernet, Video output, SD Card slots (32GB or more) to be available.	
		History memory	5000 waveforms or more	
		Parameter measurement	Amplitude, peak to peak values, RMS, rise time, frequency etc. up to 32 Items can be displayed. Cycle and History statistics to be available.	
		Action on Trigger	Provision to Save waveform, Screen image, buzzer ,mail on triggered action item	
		Trigger	Edge, Time, OR, AND, Period, Pulse Width, Wave	

1	1		Window, A->B (N), A	
			Delay B, Single N	
		Zoom	High-speed zoom in to 2 Billion samples and should	
			have 2 separate zoom	
			windows for analysis	
		Sampling	Simultaneous recording of	
			waveform at two different	
			sampling rates	
		Software	c) Software for continuous data	e)
			recording to a PC, display	
			acquired waveforms, transfer files, control instruments	
			remotely, Offline analysis	
			d) Continuous PC based data	
		Other	acquisition.	
		Features		
			a) Provision to	
			Retain the current	
			displayed waveform on	
			the screen b) Dedicated Key to	
			prevent from careless or	
			unexpected operation	
2.	Analog	Several e verte	Minimum 10MC/s	
	Module	Sample rate	Minimum 10MS/s	
		A/D		
		resolution	Minimum 12 bit	
		Voltage	800V( DC+AC peak ) or	
		input	more	
		Bandwidth No of	Minimum 3MHz	
		Channels	2 (Isolated, BNC)	
		CMRR	80 dB (50/60 Hz)	
3.	Strain			
	Module	Bandwidth	DC to 20 kHz	
			2 (auto balancing, balanced	
		No of	differential input, and	
		channels	isolated)	
			120 $\Omega$ to 1000 $\Omega$ (bridge voltage: 2 V)	
			$350 \Omega$ to $1000 \Omega$ (bridge	
		Gauge	voltage: 2 V, 5 V, and 10	
		resistance	V)	
		Gauge factor	1.90 to 2.20	
			20000 µSTR or more,	
			mV/V support also to be available	
		Measurement		
4.	Temperature	Input		
	Module	channels	16(Isolated unbalanced)	

1	1	Input	TC (thermocouple), DC,	
		coupling	GND	
		Supported Types	K,E,J,T,L,U,N,R,S,B,W,K P/Aufe	
		A/D resolution	16 Bit	
		Burnout detection function	ON/OFF available on channel basis	
		External scanner box	To be provided for connecting TC	
		Data Update	100 ms, 300 ms, 1 s, and 3 s	
5.			Frequency (Hz), RPMs, RPSs, period (s), duty cycle (%), power supply frequency (Hz), pulse	
	Frequency module	Measurement function	width (s), pulse integration, and velocity	
	module	No of channels	2(Isolated)	
		A/D		
		Resolution	16 bit	
		Max input		
		voltage	420V	
		Measuring Range	500KHz or more with sensitivity 0.1 Hz/div to 100 kHz/div	
		Update rate	1 MHz	
		Minimum measurement resolution	625ps	
		Bandwidth limit	Full/100         Hz/1         kHz/10           kHz/100         kHz	
6.	Acceleration Module	Input Channels	2 (Isolated)	
		Sample rate Bandwidth	Acceleration: 0.4 Hz to 40kHzVoltage: DC to 40 kHzFull/Auto	
		limit	Hz/400 Hz/4 kHz	
		Anti-aliasing filter (AAF)	$ \begin{array}{l} fc:fs \geq 100 \ Hz : \ fc = \ fs \times \\ 40\% \\ fs \leq 50 \ Hz : \ fc = 20 \ Hz \end{array} $	
		Sensor supply current (voltage)	OFF/4 mA ±10% (approx. 22 VDC)	

	I			
		Acceleration		
		sensors		
		support	PCB, ICP, Isotron etc	
7.	CAN /LIN		CAN and LIN port - 1NO	
	720241		(Isolated -across port and	
			main unit, across each	
		Input ports	port))	
		Maximum		
		sampling rate	100 kS/s	
		Input		
		connector	D-sub 9-pin (male)	
		Maximum		
		allowable		
		common		
		mode voltage	30 Vrms	
		Input		
		channel	60-signal/port	
		LIN port		
		specification		
		Maximum	-1 V to +18 V( (LIN input	
		input voltage	to GND)	
		Supported bit		
		rate	2400, 9600, 19200 bps	
		CAN Port		
		specification		
		specification	-3 V to +10	
		Maximum	V(CAN_H,CAN_L input	
		input voltage	to GND)	
			,	
0		Bit rate	10 k up to 1 Mbps	
8.	CAN/CANFD	T	2(Isolated (across port and	
	720242	Input ports	main unit, across each port)	
		Input		
		channels	60 signals/port	
		Input		
		connector	D-Sub 9-pin (male)	
		Maximum		
		sample rate	100 kS/s	
		Bit rate	10 k up to 1 Mbps	
		Flexible data	1 M, 2 M, 3 M, 4 M, 5	
		rate	Mbps	
		A 11 . 1 1	3 V to $+10$ V	
		Allowable	(CAN_H,CAN_L input to	
		voltage range	GND)	
			Single shot	
		Output	Specified ID (Data) can be	
		function	outputted manually	

9.	Voltage Probes	1:1 Safety BNC adapter lead	1000 Vrms CAT II	
		Alligator clip adaptor set	1000 Vrms CAT II and 300 Vrms CAT II	

## LIST OF DELIVERABLES

S.N	DESCRIPTION	QTY	Compliance
0			(Y/N)
10.	Oscilloscope with	2 Set	
	Data Logger		
	Facility &		
	Software		
11.	Analog Module	6 Set	
12.	Strain Module	2 Set	
13.	Temperature	2 Set	
14.	Module	2 Set	
15.	Frequency Module	2 Set	
16.	Acceleration	1 Set	
17.	Module	1 Set	
18.	CAN/LIN Module	8 Set	
	CAN/FD Module		
	Voltage Probe &		
	Accessories		

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 organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the 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 subsidized 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

## List of Govt. Organization/Deptt.

List of Government Organizations for whom the Bidder has undertaken such work during last three years (must be supported with work orders)						
Name of the organization	Name of Contact Person	Contact No.				

Signature of Bidder

Name: \_\_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

## PREVIOUS SUPPLY ORDER DETAILS

#### Annexure - IV

#### Name of the Firm\_\_\_\_\_

	0.1		<b>X</b> 7 1	D	TT .1	<u> </u>
Order placed		Description	Value	Date of	Has the	Contact
by (Full	No. and	and quantity	of	Completion	equipment been	person along
address of	Date	of order	order	of delivery	installed	with
Purchaser)		equipment		as per	satisfactorily	Telephone
				contract	(Attach a	No., Fax No.
					Certificate	and email
					from the	address)
					Purchaser/	
					Consignee)	

Signature and Seal of the Manufacturer/ Bidder

\_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

#### ORIGINAL EQUIPMENT MANUFACTURER (OEM) Manufacturing authorisation form (MAF) (On Letter Head of Manufacturer)

#### ANNEXURE-V (Revised)

Tender No. :-

Date:- .....

To The Director, Indian Institute of Technology Delhi, New Delhi- 110016

Dear Sir,

We manufactures of original equipment at (.....address of factory......) do hereby authorize M/s (*Name and address of Agent*) to submit a bid, negotiate and receive the order format against your tender enquiry.

M/s. ..... is authorized to bid and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per clause ...... of the terms and conditions NIQ for the goods and services offered by the above firm.

Yours Faithfully,

(Name)

(Name & Seal of Manufactures)

Note: -

- 1. **Items of indigenous nature or quoted in INR**, more than 1 authorized representative may participate in the same tender and submit their bids on behalf of their OEM/Principal/Manufacturer if the OEM permits more than one authorized bidder in such case as per their policy.
- 2. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer
- 3. The 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. The same should be included by the 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:-

<b>Envelope – 1</b> (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.		PREVIOUS SUPPLY ORDER 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 Bid	Price bid should be submitted in given BOQ_XXXX.xls format. (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'	.XLS	