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 खास, नई दिल्ली -110016

Dated/ दिनांक: 15/07/2020

Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/CRF(SP-3070)/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	Multi-functional Tribo-tester
Earnest Money Deposit to be submitted बयाना जमा करने के लिए जमा राशि	Rs. NIL
Warranty वारंटी अवधि	5 Years/5 साल
Performance security निष्पादन सुरक्षा	5% of FOB value एफओबी मूल्य का 5%
Delivery Schedule	12 weeks from date of opening of LC

Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/app . Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

निविदा दस्तावेज केन्द्रीय सार्वजनिक खरीद पोर्टल http://eprocure.gov.in/eprocure/app से डाउनलोड हो सकते हैं ई-प्रोक्योरमेंट में पंजीकृत नहीं होने वाले 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 http://eprocure.gov.in/eprocure/app as per the schedule given in the next page.

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

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

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)	Name of Organization	Indian Institute of Technology Delhi
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell) Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems) Source of Fund (Institute/Project) Is Multi Currency Allowed Date of Issue/Publishing Document Download/Sale Start Date Document Download/Sale End Date 15/07/2020 (15:00 Hrs) Document Download/Sale End Date 12/08/2020 (15:00 Hrs) Dote of Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee EMD EMD EMD EMD EMD EMD 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 A/C : SBINMO01077 MICR Code : SBINMO01077 MICR	1 =	Open
Product Category (Civil Works/Electrical Works/Electrical Works/Fleet Management/ Computer Systems) Source of Fund (Institute/Project) Budget Code PLN12/02CF Is Multi Currency Allowed YES Date of Issue/Publishing Document Download/Sale Start Date 15/07/2020 (15:00 Hrs) Document Download/Sale End Date 12/08/2020 (15:00 Hrs) Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids 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 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) Bid Validity days (180/120/90/60/30) 90 days (From last date of opening of tender) Prof. Dinesh Kalyanasundaram Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi - 110016 Contact No. (+91)-11-26597344	Tender Category (Services/Goods/works)	Goods
Source of Fund (Institute/Project) Budget Code PLN12/02CF	, 11.	Buy
Is Multi Currency Allowed PES Date of Issue/Publishing Document Download/Sale Start Date 15/07/2020 (15:00 Hrs) Document Download/Sale End Date 12/08/2020 (15:00 Hrs) Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee 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 Account SBI A/C No. : 10773572622 Name of the Bank i 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) O2 Bid Validity days (180/120/90/60/30) Address for Communication Prof. Dinesh Kalyanasundaram Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi - 110016 Contact No. (+91)-11-26597344		Instrument
Date of Issue/Publishing Document Download/Sale Start Date 15/07/2020 (15:00 Hrs) Document Download/Sale End Date 12/08/2020 (15:00 Hrs) Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee EMD 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 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. : SBINNBB547 (This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4) 20 Bid Validity days (180/120/90/60/30) Address for Communication Prof. Dinesh Kalyanasundaram Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi - 110016 Contact No. (+91)-11-26597344	Source of Fund (Institute/Project)	Budget Code PLN12/02CF
Document Download/Sale Start Date Document Download/Sale End Date Date for Pre-Bid Conference Venue of Pre-Bid Conference Last Date and Time for Uploading of Bids Date and Time of Opening of Technical Bids Tender Fee 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 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. : SBINNBB547 (This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4) Did Validity days (180/120/90/60/30) Prof. Dinesh Kalyanasundaram Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi - 110016 Contact No. (+91)-11-26597344	Is Multi Currency Allowed	YES
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Address for Communication Prof. Dinesh Kalyanasundaram Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi – 110016 Contact No. (+91)-11- 26597344	No. of Covers (1/2/3/4)	02
Centre for Biomedical Engineering Indian Institute of Technology, Hauz Khas, New Delhi – 110016 Contact No. (+91)-11- 26597344	Bid Validity days (180/120/90/60/30)	90 days (From last date of opening of tender)
	Address for Communication	Centre for Biomedical Engineering Indian Institute of Technology,
Email Address dineshk@cbme.iitd.ac.in	Contact No.	(+91)-11- 26597344
	Email Address	dineshk@cbme.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.

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

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
 - बोलीदाताओं को "नामांकन के लिए यहां क्लिक करें" लिंक पर क्लिक करके सेंट्रल पब्लिक प्रोक्युरमेंट पोर्टल (यूआरएल: http://eprocure.gov.in/eprocure/app) के ई-प्रोक्योरमेंट मॉड्यूल पर भर्ती करना आवश्यक है। सीपीपी पोर्टल पर नामांकन नि: शुल्क है
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
 - नामांकन प्रक्रिया के भाग के रूप में, बोलीदाताओं को अपने खाते के लिए एक अद्वितीय उपयोगकर्ता नाम चुनना होगा और एक पासवर्ड प्रदान करना होगा।
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
 - बोलीदाताओं को सलाह दी जाती है कि पंजीकरण प्रक्रिया के भाग के रूप में अपना वैध ईमेल पता और मोबाइल नंबर पंजीकृत करें। इन का उपयोग सीपीपी पोर्टल से किसी भी संचार के लिए किया जाएगा।
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
 - नामांकन पर, बोलीदाताओं को सीसीए इंडिया द्वारा मान्यता प्राप्त किसी प्रमाणन प्राधिकरण द्वारा जारी किए गए अपने मान्य डिजिटल हस्ताक्षर प्रमाण पत्र (कक्षा द्वितीय या कक्षा III प्रमाण पत्र के साथ महत्वपूर्ण उपयोग पर हस्ताक्षर करने) की आवश्यकता होगी (जैसे सिफी / टीसीएस / एनकोड / ई-मुद्रा आदि), उनके प्रोफाइल के साथ
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.

केवल एक मान्य डीएससी एक बोलीदाता द्वारा पंजीकृत होना चाहिए। कृपया ध्यान दें कि निविदाकर्ता यह सुनिश्चित करने के लिए ज़िम्मेदार हैं कि वे अपने डीएससी को दूसरों को उधार नहीं देते हैं जिससे दुरुपयोग हो सकता है।

6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

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

SEARCHING FOR TENDER DOCUMENTS/ निविदा दस्तावेजों के लिए खोजना

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
 - सीपीपी पोर्टल में निर्मित विभिन्न खोज विकल्प हैं, ताकि बोलीदाताओं को कई मापदंडों से सिक्रय 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 शृद्धि 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 दस्तावेज 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 दवारा 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 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 अनुपालन पत्रक की एक पीडीएफ फाइल में सभी प्रासंगिक दस्तावेजों के स्कैन किए गए पीडीएफ़ को जोड़ दें।

ASSISTANCE TO BIDDERS / बोलीदाताओं को सहायता

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
 - निविदा दस्तावेज से संबंधित कोई भी प्रश्न और इसमें निहित नियमों और शर्तों को निविदा आमंत्रण प्राधिकरण को निविदा के लिए या निविदा में वर्णित प्रासंगिक संपर्क व्यक्ति से संबोधित किया जाना चाहिए।
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.
 - ऑनलाइन बोली प्रस्तुत करने या सामान्य में सीपीपी पोर्टल से संबंधित प्रश्नों की प्रक्रिया से संबंधित कोई भी प्रश्न 24x7 सीपीपी पोर्टल हैल्पडेस्क पर निर्देशित किया जा सकता है। हेल्पडेस्क के लिए संपर्क संख्या 1800 233 7315 है

General Instructions to the Bidders / बोलीदाताओं के लिए सामान्य निर्देश

- 1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app . In the Technical Bids, the bidders are required to upload all the documents in .pdf format. निविदाएं पोर्टल http://eprocure.gov.in/eprocure/app के माध्यम से ऑनलाइन प्राप्त होंगी तकनीकी बोलियों में, बोलीदाताओं को सभी दस्तावेजों को। पीडीएफ प्रारूप में अपलोड करना होगा।
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".

 कंपनी के नाम में स्मार्ट कार्ड / ई-टोकन के रूप में मान्य क्लास ॥ / ॥ डिजिटल हस्ताक्षर प्रमाण पत्र (डीएससी) के पंजीकरण के लिए एक शर्त है और https://eprocure.gov.in/eprocure/ के माध्यम से बोली प्रस्तुत करने की गतिविधियों में भाग ले सकते है। डिजिटल हस्ताक्षर प्रमाण पत्र अधिकृत प्रमाणित एजेंसियों से प्राप्त की जा सकती है, जिनमें से जानकारी "डीएससी के बारे में सूचना" लिंक के तहत वेब साइट https://eprocure.gov.in/eprocure/app पर उपलब्ध है।
- 3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

 ि विदाकर्ता को सलाह दी जाती है कि वे निविदाकार को निर्देश दिए गए हों ताकि ई-प्रोक्योरमेंट के लिए सेंट्रल पब्लिक प्रोकॉर्ममेंट पोर्टल के जिरए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।

Central Research Facility Indian Institute of Technology Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Subject: Multi-functional Tribo-tester

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 **Multi-functional Tribo-tester** with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATION:

S.No.	Desired Parameter	Specifications
1.	Tribology	
A.	Rotary Mode	A1. Speed from 0.5 to 5000 RPM or higher range. A2. Servo based loading (no dead weight and no pneumatic) A3. Loading range up to 5000 N or higher A4. Strain gauge sensor for normal load and friction load measurement A5. The system should be able to handle both liquid and dry samples for testing. A6. For the liquid samples, the holder should be able to handle sample size of 50 mm of higher A7. Environmental enclosure with temperature controller from Room temperature to 500 °C. A8. For oscillatory motion, frequency of 15 Hz or higher should be provided A9. Programmable loading pattern/ cycles A10. Continuous wear via Pin on Disc Tests/Ball on Disc/Disc on Disc Tests and monitoring A11. Oscillatory Tests as well as customized motion A12. In-situ measurement of depth of scratch/depth of wear A13. In-situ measurement and synchronised recording of vibrations and acoustic responses
B.	Linear/reciprocatory Mode	B1. Linear wear tests via Pin on plate/Ball on plate. B2. Servo based loading (no dead weight and no

	pneumatic)
	B3. Load range up to 5000 N or higher
	B4. Minimum X Y travel – 150 mm x 250 mm with
	a resolution of 10 μm
	B5. The system should be able to handle both
	liquid and dry samples for testing.
	B6. Programmable loading pattern/ cycles
	B7. Strain gauge sensor for normal load and
	friction load measurement
	B8. Piezo sensor for reciprocatory tests (upto 450 N)
	B9. Stroke length range from 100 μm to 30 mm
	B10.Maximum frequency 70 Hz or higher
	B11.Fretting Tests from 100 μm to 1 mm
	B12. <i>In-situ</i> measurement of depth of scratch/
	depth of wear
	B13. <i>In-situ</i> measurement of wear volume
	B14. <i>In-situ</i> measurement and synchronised
	recording of vibrations and acoustic responses
C. Tribo-corrosion	C1. PTFE container for electrolyte, reference and standard electrode
	C2. Two numbers of Potentiostat (minimum of 8
	channel, ± 10 V or higher range with 1 μV or
	better resolution, ± 500 mA or higher range
	with 1 nA or better resolution) for electrical
	measurement
	C3. Temperature up to 125 °C or higher
D. Bio-Tribology	D1. Wear: Linear, Continuous and Butterfly type of motions etc.
	D2. Force sensing along 3 axis
	D3. Torque sensing about 3 axis
	D4. <i>In-situ</i> measurement and synchronised
	recording of vibrations and acoustic responses
	D5. <i>In-situ</i> measurement of wear volume
	D6. Joint simulator setup
	D7. Attachments to use joint stimulator for four
	different sizes of acetabular cup and ball (0.3", 0.5", 0.75"and 1")
	D8. The joint simulator should be able to run for a
	minimum of 10 million cycles without any
	downtime.
	D9. Components testing such as catheters etc.
E. 3D Scratch Tester	E1. Scratch Hardness Tests with load up to 200 N
	E2. Scratch Resistance Tests
	E3. Coating Adhesion Tests
	E4. Pre-scan Scratch and post scan Scratch Test
	E5. Panoramic 3D imaging integrated with Scratch
	Tests
	E6. Also be used as a stand-alone scratch tester
	E7. Scratch tips – Diamond tip radius of 20 μm and
	= = = = = = = = = = = = = = = = = = = =
2. Profilometer (<i>in-situ</i>)	100 μm
2. Tromometer (m situ)	2-1. 3D White Light-based interferometry
2. Tromometer (in situ)	·

		material loss, wear rates, roughness change
		etc. 2-3. Complete 3D Profilometer software to
		2-3. Complete 3D Profilometer software to characterize roughness, wear depth, width,
		step height, film thickness and numerous other
		parameters from 3D profile
		2-4. Auto focus, automatic stage, auto stitching
		profilometer.
		2-6. Quad band LED light source
		2-7. Tip Tilt Stage: +/- 6° degree
		2-8. A minimum of 5 objective turrets to mount
		different range of objectives 2-9. Automatic vertical scanning up to 150 mm.
		9 1
		2-10. 10X and 20X Objectives to be supplied 2-11. The equipment must be capable of
		1
		analyzing samples equal to/ larger than 100
		mm (L) × 50 (W) × 20 mm (H) or higher 2-12. Scanning speed 160 FPS or higher.
2	Conford migrogramy (in gity)	2-13. Camera resolution: 5 MP or higher 3-1. White light-based spinning disc confocal
3.	Confocal microscopy (in-situ)	3-1. White light-based spinning disc confocal Microscopy to view craters and difficult to
		profilometer. 3-2. Options of both dark field and bright field
		1 9
		Imaging 3-3. 5X, 20X and 50X Objectives to be supplied
		3-4. High resolution/ low noise camera unit
		3-4. Resolution of 5 MP or higher
		3-6. Software for stitching of images
4.	Indentation	A. Micro-indentation
~·	indentation	4A-1. Load range: 30 mN to 60 N or higher
		4A-2. Rockwell and Vickers indentor to be
		supplied
		4A-3. Software: Ability to provide depth vs. Load
		curves
		4A-4. Hardness and modulus characterization for
		materials and coatings
		4A-5. Modulus mapping
		4A-6. Should be used as a stand-alone
		indentation machine
		B. Macro Indentation
		4B-1. Load range: up to 5000 N
		4B-2. Rockwell and Vickers indentor to be
		supplied
5.	Accessories	5-1. Dell or Lenovo Workstation 1 (1 quantity)
		provided with licenses of all softwares
		(operational as well as analysing) with the
		following specifications: Xeon E7 or i9 Processor
		with a minimum of 16 cores, 3.6 GHz and above, 64
		GB RAM or higher, NVIDIA Graphics card (4GB or
		above), 2TB SSD Hard disk, RAID 0 configuration,

		CD/DVDRW drive, minimum of 4 USB ports, 2 HDMI ports, 2 VGA ports, in-built Wifi, LAN port, 2 x 27" LED screen. The system shall be provided with Windows based Operating system. Automatic updates for the software shall be provided for 10 years. 5-2. Dell or Lenovo Workstation 2 (1 quantity) provided with analysis licenses of all relevant software modules. The specifications of the computer are: Xeon E7 or i9 Processor with a minimum of 16 cores, 3.6 GHz and above, 64 GB RAM or higher, NVIDIA Graphics card (4GB or above), 2TB SSD Hard disk, RAID 0 configuration, CD/DVDRW drive, minimum of 4 USB ports, 2 HDMI ports, 2 VGA ports, in-built Wifi, LAN port, 2 x 27" LED screen. The system shall be provided with Windows based Operating system. Automatic updates for the software shall be provided for 10 years. 5-3. 20 or more number of licenses of Analysis
		software shall be provided.
6.	Important operating conditions	 5-4. Any relevant accessory as needed. 6-1. The supplied items shall be operated in a stand-alone manner without the requirement of any source other than electrical supply line. Any deviation to this statement shall be communicated to IIT Delhi during the tendering process. 6-2. Machine should begin operation only after closing of all enclosures.
7.	Miscellaneous	 7-1. All the modules are expected from the same original equipment manufacturer (exceptions: computers, potentiostat, chiller unit, infrared imaging system). 7-2. The bidder should demonstrate the required system web/online or at IIT Delhi campus. If the bidder fails to demonstrate all the functionalities as quoted, the bid shall be rejected. 7-3. The bidder shall share recent and notable publications. 7-4. The bidder shall provide a list of recent installations for the same system or a similar system at Governmental Institutions. The list shall consist of the buyer's phone and email addresses. 7-5. The repair/sales service is of utmost importance. Service requests shall be attended within a couple of days of raising of the request. The service engineers preferably be located in the NCR region.
8.	Installation and Commissioning	i) Installation, complete interfacing of the system with its subsystems, and commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance to the user's complete satisfaction.

training initially during installation ii) The supplier or manufacturer should also providedicated five days advanced training subsequent to above training installation. iii) Regular follow up training every six months during period of extended warranty on mutually convenient date for hardware, software and application to the laborate personnel in the installation, operation and maintenance the instruments. 10. Warranty System should be covered for comprehensive warranty 5 years from the manufacturer All parts including spanshould be covered under the warranty and this fashould be clearly and explicitly specified in the tend document. The comprehensive Warranty should cover: 1. All parts including accessories, spares and labour on sit. 2. Free maintenance and service on site or at factory we no cost, and 3. Regular up-gradation of software 11. Power Supply Should meet Indian Power standards preferably without to of external converters 12. System Consumable Parts Basic frequently required spares should be provided the entire period of extended warranty. A list of the items should be attached with the quotation.	9.	Training	
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Parts the entire period of extended warranty. A list of the items should be attached with the quotation.	11.	Power Supply	Should meet Indian Power standards preferably without use of external converters
	12.		Basic frequently required spares should be provided for the entire period of extended warranty. A list of these items should be attached with the quotation.
must have at least two qualified and factory train service engineer in India to be able to attend to service IIT Delhi within 48 hours on submitting a complair Training certificates from the manufacturer have to provided with the tender. 2. For warranty period only factory trained and certification engineers are acceptable to attend the service. 3. The response time with an engineer on site must be let than 48 hours from the notification of the failure. To company must provide evidence that it can fulfil to requirement. 4. In case the parts are required to be imported for repair the same should be made available within 2 weeks from the date of reporting of the issue. Any extension in this time will need to be compensated by the manufacturer extending the comprehensive warranty by the excess period of the com	13.	Support and Service	 For warranty period only factory trained and certified engineers are acceptable to attend the service. The response time with an engineer on site must be less than 48 hours from the notification of the failure. The company must provide evidence that it can fulfil this requirement. In case the parts are required to be imported for repairs the same should be made available within 2 weeks from the date of reporting of the issue. Any extension in this time will need to be compensated by the manufacturer by extending the comprehensive warranty by the excess period
			taken (i.e. period beyond 2 weeks) in completing the repairs.

	5. A 5% performance guarantee will need to be maintained
	during the period of extended warranty.

Sl.	List of optional items
No.	
1.	Environmental chamber for rotary mode from (-)100 °C to (-)40 °C (liquid N ₂ cooled)
2.	Environmental chamber for rotary mode from (-)40 °C to Room temperature (refrigerant cooled)
3.	Environmental chamber for reciprocatory mode from (-)40 °C to Room temperature (refrigerant cooled)
4.	Appropriate chiller unit for the environmental chamber.
5.	<i>In-situ</i> and non-contact temperature measurement of rubbing surfaces via infrared imaging. The enclosure shall have provisions to allow for viewing of the interacting surfaces for infrared imaging.
6.	Item wise price list of all force sensors
7.	Item ISO/ASTM standard fixtures and other accessories shall be provided.
8.	Bio-tribology setup should be apt for the following ISO standards
	 a. Hip implant (Femoral Head Wear: ISO 14242, Hip stem corrosion: ASTM F1875, High demand hip wear testing ASTM F3047M0 b. Knee (Knee wear test: ISO 14243) c. Ankle (Total ankle replacement wear: ISO 22622) The above setup in-accordance to relevant ISO standards should be supported by recent publications in international peer reviewed journals.

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

Terms & Conditions Details

 Due date: The tender has to be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered. Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BoQ_XXXX. The Technical bid and the financial bid should be submitted Online. Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment an anything asked as 'Optional' in the specs is not to be included for overall comparison. EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The 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 contract. Refer to Schedule (at page 1 of this document) for its actual place of submission. Refund of EMD: The EMD will be returned to unsuccessful Tenderer only after the Tenders a finalized. In case of successful Tenderer, it will be retained till the successful and comple installation of the equipment. Opening of the tender: The online bid will be opened by a committee duly constituted for the
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5 Onening of the tender: The online hid will be opened by a committee duly constituted for the
purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened a
mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only or
representative will be allowed to participate in the tender opening. Bid received without EMD (
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/b
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 Tim
The bidder should produce authorization letter from their company to participate in the tend-
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 origin
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
regular basis with technology/product updates and extend support for the warranty as well. (Re
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
rejection of the bid.
(v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself ca
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 of shall of another Principal/OEM in the same tender for the same item/product
behalf of another Principal/OEM in the same tender for the same item/product. Parformance Security: The supplier shall require to submit the performance security in the form
8. Performance Security : The supplier shall require to submit the performance security in the form of irrayocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated
irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated
page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC are
should be kept valid for a period of 60 days beyond the date of completion of warranty period.

Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, liquidated 9. damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. 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 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: 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. 14. **Prices**: The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate

will be issued on demand.

In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges. At any circumstances, it is the responsibility of the foreign supplier to handover the material to our forwarder at the origin airport after completing all the inland clearing. No Ex- Works consignment will be entertained.

"In case of CIF/CIP shipments, kindly provide the shipment information at least 2 days in advance before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name, address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent."

Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as 'Optional' in the specs is not to be included for overall comparison.

Notices: For the purpose of all notices, the following shall be the address of the Purchaser and

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

Purchaser: Prof. Dinesh Kalyanasundaram

Centre for Biomedical 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).

- 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 completion of the test specified. In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser. Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier. 18. **Resolution of Disputes**: The dispute resolution mechanism to be applied pursuant shall be as follows: • In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. dispute shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. • In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. • The venue of the arbitration shall be the place from where the order is issued. 19. Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA. 20. **Right to Use Defective Goods** If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation. 21. **Supplier Integrity** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract. 22. **Training** The Supplier is required to provide training to the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment. 23. **Installation & Demonstration** The supplier is required to done the installation and demonstration of the equipment within one month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same as per the supply of materials. In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IITD will not be liable to any type of losses in any form. 24. **Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. In case of orders placed on FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the

	insurance should be up to IIT Delhi.
25.	Incidental services: The incidental services also include:
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises at the cost of Supplier through their Indian representatives.
26.	 Warranty: 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. 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. The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The
	comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. (iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will not be included in computing the total cost of the equipment.
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.	 Notices Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address. A notice shall be effective when delivered or on the notice's effective date, whichever is later.
30.	Taxes Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.
21	For research purpose(s) ONLY , 5% GST will be applicable with concessional GST Certificate.
31.	Duties

	IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only. a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists) b) Forwarder details i.e. Name, Contact No., etc. IIT Delhi is partially exempted from paying GST and necessary GST Exemption Certificate will be provided for which following information are required. b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable c) Supply Order Copy d) Proforma-Invoice Copy.
32.	Agency Commission: Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.
33.	 Payment: 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. 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. Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items. All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
34.	User list: Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided. (Ref. Annexure-III)
35.	Manuals and Drawings
33.	 (i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications. (ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract. (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
36.	Application Specialist: The Tenderer should mention in the Techno-Commercial bid the
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	availability and names of Application Specialist and Service Engineers in the nearest regional office.
37.	(Ref. to Annexure-III) Site Preparation: The supplier shall inform to the Institute about the site preparation, if any, needed
37.	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-
38.	installation requirements.
30.	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.	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: "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. "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

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

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

S.No.	Desired Parameter	Specifications	Compliance (Yes/No)
			with detailed
			specifications
1.	Tribology	A1. Speed from 0.5 to 5000 RPM or	
		higher range.	
		A2. Servo based loading (no dead	
		weight and no pneumatic)	
		A3. Loading range up to 5000 N or higher	
		A4. Strain gauge sensor for	
		normal load and friction load	
		measurement	
		A5. The system should be able to	
		handle both liquid and dry	
		samples for testing.	
		A6. For the liquid samples, the holder should be able to	
		handle sample size of 50 mm	
		of higher	
		A7. Environmental enclosure with	
		temperature controller from	
		Room temperature to 500 °C.	
		A8. For oscillatory motion,	
		frequency of 15 Hz or higher should be provided	
		A9. Programmable loading	
		pattern/ cycles	
		A10. Continuous wear via Pin	
		on Disc Tests/Ball on	
		Disc/Disc on Disc Tests and	
		monitoring	
		A11. Oscillatory Tests as well as customized motion	
		A12. <i>In-situ</i> measurement of	
		depth of scratch/ depth of	
		wear	
		A13. <i>In-situ</i> measurement of	
		wear volume	
		A14. In-situ measurement and	
		synchronised recording of vibrations and	
		acoustic responses	
Α.	Rotary Mode		
В.	Linear/reciprocatory Mode	B1. Linear wear tests via Pin on	
		plate/Ball on plate.	

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C.	Tribo-corrosion	B2. Servo based loading (no dead weight and no pneumatic) B3. Load range up to 5000 N or higher B4. Minimum X Y travel – 150 mm x 250 mm with a resolution of 10 μm B5. The system should be able to handle both liquid and dry samples for testing. B6. Programmable loading pattern/cycles B7. Strain gauge sensor for normal load and friction load measurement B8. Piezo sensor for reciprocatory tests (upto 450 N) B9. Stroke length range from 100 μm to 30 mm B10. Maximum frequency 70 Hz or higher B11. Fretting Tests from 100 μm to 1 mm B12. In-situ measurement of depth of scratch/depth of wear B13. In-situ measurement of wear volume B14. In-situ measurement and synchronised recording of vibrations and acoustic responses C1. PTFE container for electrolyte, reference and standard electrode C2. Two numbers of Potentiostat (minimum of 8 channel, ± 10 V or higher range with 1 μV or better resolution, ±	
		500 mA or higher range with 1 nA or better resolution) for electrical	
		measurement C3. Temperature up to 125 °C or higher	
D.	Bio-Tribology	D1. Wear: Linear, Continuous and Butterfly type of motions etc. D3. Force sensing along 3 axis D4. Torque sensing about 3 axis D5. In-situ measurement and synchronised recording of vibrations and acoustic responses D6. In-situ measurement of wear volume D7. Joint simulator setup D8. Attachments to use joint stimulator for four different sizes of acetabular cup and ball (0.3", 0.5", 0.75" and 1") D9. The joint simulator should be able to run for a minimum of 10 million cycles without any downtime. D10. Components testing such as catheters etc.	
E.	3D Scratch Tester	E1. Scratch Hardness Tests with load up to 200 N E2. Scratch Resistance Tests E3. Coating Adhesion Tests	
		E4. Pre-scan Scratch and post scan	

		Scratch Test	
		E5. Panoramic 3D imaging integrated	
		with Scratch Tests	
		E6. Also be used as a stand-alone scratch	
		tester	
		E7. Scratch tips – Diamond tip radius of	
		20 μm and 100 μm	
2.	Profilometer (in-situ)	2-1. 3D White Light-based	
		interferometry profilometer	
		2-2. Integrated Inline Profilometer to	
		study material loss, wear rates,	
		roughness change etc.	
		2-3. Complete 3D Profilometer	
		software to characterize	
		roughness, wear depth, width,	
		step height, film thickness and	
		numerous other parameters from	
		3D profile	
		2-4. Auto focus, automatic stage, auto	
		stitching	
		2-5. Should be used as a stand-alone	
		profilometer.	
		2-6. Quad band LED light source	
		2-7. Tip Tilt Stage: +/- 6° degree	
		2-8. A minimum of 5 objective turrets	
		to mount different range of objectives	
		2-9. Automatic vertical scanning up to	
		150 mm.	
		2-10. 10X and 20X Objectives to be	
		supplied	
		2-11. The equipment must be capable	
		of analyzing samples equal to/	
		larger than 100 mm (L) × 50 (W)	
		× 20 mm (H) or higher	
		2-12. Scanning speed 160 FPS or	
		higher.	
		2-13. Camera resolution: 5 MP or	
2		higher	
3.	Confocal microscopy (in-situ)	3-1. White light-based spinning disc	
		confocal Microscopy to view craters and difficult to image	
		features using a conventional	
		profilometer.	
		3-2. Options of both dark field and	
		bright field Imaging	
		3-3. 5X, 20X and 50X Objectives to be	
		supplied	
		3-4. High resolution/ low noise	
		camera unit	
		3-5. Resolution of 5 MP or higher	
		3-6. Software for stitching of images	
4.	Indentation	A. Micro-indentation	
		4A-1. Load range: 30 mN to 60 N	

		or higher 4A-2. Rockwell and Vickers
		indentor to be supplied
		4A-3. Software: Ability to provide
		depth vs. Load curves
		4A-4. Hardness and modulus
		characterization for materials and
		coatings
		4A-5. Modulus mapping
		4A-6. Should be used as a stand-
		alone indentation machine
		B. Macro Indentation
		4B-1. Load range: up to 5000
		N
		4B-2. Rockwell and Vickers
		indentor to be supplied
5.	Accessories	5-1. Dell or Lenovo Workstation 1
		(1 quantity) provided with
		licenses of all softwares
		(operational as well as
		analysing) with the following
		specifications: Xeon E7 or i9
		Processor with a minimum of
		16 cores, 3.6 GHz and above,
		64 GB RAM or higher, NVIDIA
		Graphics card (4GB or above),
		2TB SSD Hard disk, RAID 0
		configuration, CD/DVDRW
		drive, minimum of 4 USB ports,
		2 HDMI ports, 2 VGA ports, in-
		built Wifi, LAN port, 2 x 27"
		LED screen. The system shall
		be provided with Windows
		based Operating system.
		Automatic updates for the
		software shall be provided for
		10 years. 5-2. Dell or Lenovo Workstation 2
		(1 quantity) provided with analysis licenses of all relevant
		software modules. The
		specifications of the computer
		are: Xeon E7 or i9 Processor
		with a minimum of 16 cores,
		3.6 GHz and above, 64 GB RAM
		or higher, NVIDIA Graphics
		card (4GB or above), 2TB SSD
		Hard disk, RAID 0
		configuration, CD/DVDRW
		drive, minimum of 4 USB ports,
		2 HDMI ports, 2 VGA ports, in-
		built Wifi, LAN port, 2 x 27"
		LED screen. The system shall
<u> </u>	1	222 Coloni Inc Officent Shan

		be provided with Windows
		based Operating system.
		Automatic updates for
		the software shall be
		provided for 10 years.
		5-3. 20 or more number of licenses
		of Analysis software shall be
		provided.
		5-4. Any relevant accessory as
		needed.
6.	Important	6-1. The supplied items shall be
	operating	operated in a stand-alone
	conditions	manner without the
		requirement of any source
		other than electrical supply
		line. Any deviation to this
		statement shall be
		communicated to IIT Delhi
		during the tendering process.
		6-2. Machine should begin
		operation only after closing of
		all enclosures.
7.	Miscellaneous	7-1. All the modules are expected
		from the same original
		equipment manufacturer
		(exceptions: computers,
		potentiostat, chiller unit,
		infrared imaging system).
		7-2. The bidder should
		demonstrate the required
		system web/online or at IIT
		Delhi campus. If the bidder
		fails to demonstrate all the
		functionalities as quoted, the
		bid shall be rejected.
		7-3. The bidder shall share recent
		and notable publications.
		7-4. The bidder shall provide a list
		of recent installations for the
		same system or a similar
		system at Governmental
		Institutions. The list shall
		consist of the buyer's phone
		and email addresses.
		7-5. The repair/sales service is of
		utmost importance. Service
		requests shall be attended
		within a couple of days of
		raising of the request. The
		service engineers preferably
		be located in the NCR region.
8.	Installation and	i) Installation, complete interfacing of the
	Commissioning	system with its subsystems, and
-		

9.	Training	commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance to the user's complete satisfaction. ii) An estimated time schedule for installation, commissioning and training must be provided. i) The manufacturer/supplier of Multifunctional Tribotester should provide at least seven days onsite training initially during installation	
		ii) The supplier or manufacturer should also provide dedicated five days advanced training subsequent to the above training installation.	
		iii) Regular follow up training every six months during the period of extended warranty on mutually convenient dates for hardware, software and application to the laboratory personnel in the installation, operation and maintenance of the instruments.	
10.	Warranty	System should be covered for comprehensive warranty for 5 years from the manufacturer All parts including spares should be covered under the warranty and this fact should be clearly and explicitly specified in the tender document. The comprehensive Warranty should cover: 1. All parts including accessories, spares and labour on site	
		2. Free maintenance and service on site or at factory with no cost, and3. Regular up-gradation of software	
11.	Power Supply	Should meet Indian Power standards preferably without use of external converters	
12.	System Consumable Parts	Basic frequently required spares should be provided for the entire period of extended warranty. A list of these items should be attached with the quotation.	
13.	Support and Service	1. The manufacturer and/or their Indian representative must have at least two qualified and factory trained service	

	engineer in India to be a service at IIT Delhi with submitting a comple certificates from the mate to be provided with the to 2. For warranty perioderained and certified acceptable to attend the second acceptable to attend	hin 48 hours on aint. Training unufacturer have ender. d only factory engineers are service. h an engineer on 8 hours from the e. The company that it can fulfil e required to be same should be	
	made available within 2 date of reporting of extension in this time of compensated by the mextending the comprehent the excess period taken (i. 2 weeks) in completing the	the issue. Any will need to be nanufacturer by sive warranty by e. period beyond the repairs.	
Sl. List of optional items	5. A 5% performance guato be maintained during extended warranty.	g the period of	es/No) with detailed

Sl. No.	List of optional items	Compliance (Yes/No) with detailed specifications
1.	Environmental chamber for rotary mode from (-)100 °C to (-)40 °C (liquid N_2 cooled)	
2.	Environmental chamber for rotary mode from (-)40 °C to Room temperature (refrigerant cooled)	
3.	Environmental chamber for reciprocatory mode from (-)40 °C to Room temperature (refrigerant cooled)	
4.	Appropriate chiller unit for the environmental chamber.	
5.	<i>In-situ</i> and non-contact temperature measurement of rubbing surfaces via infrared imaging. The enclosure shall have provisions to allow for viewing of the interacting surfaces for infrared imaging.	
6.	Item wise price list of all force sensors	
7.	Item ISO/ASTM standard fixtures and other accessories shall be provided.	
8.	Bio-tribology setup should be apt for the following ISO standards	

- a. **Hip** implant (Femoral Head Wear: ISO 14242, Hip stem corrosion: ASTM F1875, High demand hip wear testing ASTM F3047M0
- b. **Knee** (Knee wear test: ISO 14243)
- c. **Ankle** (Total ankle replacement wear: ISO 22622)

The above setup in-accordance to relevant ISO standards should be supported by recent publications in international peer reviewed journals.

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.:	

(Signature of the Tenderer)

Seal of the Company

Name:

<< Organization Letter Head >> DECLARATION SHEET

We,	hereby certify that all the information and data furnished by
	cation are true and complete to the best of our knowledge. I have tipulations in details and agree to comply with the requirements
1	uthorized (Copy attached) by the OEM to participate in Tender.
_	all the conditions of eligibility criteria laid down in this tender
_	rt on regular basis with technology / product updates and extend
support for the warranty.	to on regular basis with technology / product apaties and extend
The prices quoted in the financial bids are subsidi	zad dua ta gandamia disagunt giyan ta UT Dalhi
The prices quoted in the infancial bids are subsidi	zed due to academic discount given to III Demi.
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	111L Vendoi/ Wandracturer / Agent
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	

Annexure-III

List of Govt. Organization/Deptt.

ears (must be supported with work ord Tame of the organization	Name of Contact Person	Contact No.
	e Engineer who have the technical compet	ency to handle
pport the quoted product during the v		cency to handle contact No.
port the quoted product during the v	warranty period.	
port the quoted product during the v	warranty period.	
port the quoted product during the v	warranty period.	
port the quoted product during the v	warranty period.	
pport the quoted product during the v	warranty period.	
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pport the quoted product during the v	warranty period.	Contact No.
pport the quoted product during the v	Name of Contact Person	Contact No.
pport the quoted product during the v	Name of Contact Person Name:	Contact No. Signature of Bio
ame of application specialist / Service pport the quoted product during the vame of the organization	Name of Contact Person	Contact No. Signature of Bid

PREVIOUS SUPPLY ORDER DETAILS

Annexure - IV

Name	of the	Firm			

Order placed	Order	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/ Bio	lder
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 (....address ofat 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 NIO 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:-

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	
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	Price bid should be submitted in given BOQ_XXXX.xls format.	.XLS	
	Bid	(Note: -Comparison of prices will be done ONLY on the bids		
		submitted for the Main Equipment and anything asked as 'Optional' in the specs is not to be included for overall comparison.) Bids for optional items are to be submitted in 'sheet2_Quote for optional items'		