



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
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The Senior Manager (Project Purchase)

Date: 20.03.2024

Open Tender Reference No: AM/LAKSH/172/2024/LOWFORCE

GEM NAR ID: GEM/GARPTS/11032024/8FVVV40EB1RN

Due Date/Time: 09.04.2024@ 3:00 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, digitally signed online bids are invited in two bid system from Class-I local suppliers and Class II local suppliers, for the supply of: “**LOW FORCE FATIGUE MACHINE**” Conforming to the specifications given in **Annexure -A**.

Tender Documents may be downloaded from Central Public Procurement Portal <https://etenders.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <https://etenders.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at “**Help for Vendors**”. [Special Instructions to the Vendors / Bidders for the e-submission of the bids online through this eProcurement Portal”]

Bidders can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘IIT Madras’. Thereafter, click on “GO” button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://etenders.gov.in/eprocure/app> as per the schedule attached.

No manual bids will be accepted. All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

1)	Pre-bid Meeting Details	:	If required will be intimated
2)	ICSR Vendor Registration	:	<p><u>Vendor registration:</u> Vendor registration with IC&SR (IITM) is mandatory for bidders to participate in tenders.</p> <p>** <u>For Vendor Registration & Guidelines, Please follow the website :</u> https://icandsr.iitm.ac.in/vendorportal; Helpdesk: vendorhelpdesk@icsrpis.iitm.ac.in</p>

Last date for receipt of tender	:	09.04.2024@ 3:00 PM
Date & time of opening of tender	:	10.04.2024@ 3:00 PM

3. Instructions to the Bidder:

A)	Searching for tender documents	:	<ul style="list-style-type: none"> • 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. • 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 Tender” folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document. • 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.
B)	Assistance to bidders	:	<ul style="list-style-type: none"> • 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. • 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 [0120-4200462, 0120-4001002, 0120-4001005]
C)	Enrollment Process to Bidders	:	<p><u>REGISTRATION</u></p> <ul style="list-style-type: none"> • Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal <u>URL:https://etenders.gov.in/eprocure/app</u> by clicking on “Online Bidder Enrollment”. Enrollment on the CPP Portal is free of charge. • As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. • 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. • 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.) • Only one valid DSC should be registered by a bidder. Please

			<p>note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.</p> <ul style="list-style-type: none"> • Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken. • 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://etenders.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://etenders.gov.in/eprocure/app under the “Information about DSC”.
D)	Preparation of bids	:	<ul style="list-style-type: none"> • Bidder should take into account any corrigendum published on the tender document before submitting their bids. • 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. • Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option. • 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, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Documents” 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.
E)	Submission of bids	:	<ul style="list-style-type: none"> • Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues. • The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document. • Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected. • 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

		<p>format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.</p> <ul style="list-style-type: none"> • 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. • The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues. • The uploaded tender documents become readable only after the tender opening by the authorized bid openers. • 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. • Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet. • More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app. • All tender documents including pre-qualification bid, Technical Bid & Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. No manual bid submission will be entertained.
F)	Marking on Technical Bid	<ul style="list-style-type: none"> • The bidder eligibility criteria, technical specification and supply of item for this tender is given in Annexure A. • The Bidders shall go through the specification and submit the technical bid. • The Technical bid should be submitted in the proforma as per Annexure-B in pdf format only through online (e-tender). No manual submission of bid will be entertained. • The technical bid should have a page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents. • The technical bid should consist of bidder eligibility criteria details and all technical details along with catalogue/ pamphlet which will give a detailed description of product with technical data sheet so that technical compliance can be verified.
G)	Marking on Price Bid	<ul style="list-style-type: none"> • Financial bid (BoQ) should be submitted in the prescribed proforma format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will be entertained

4)	<p>Preparation of Tender: The bidders should submit the bids in two bid system as detailed below.</p> <p>Bid I _Technical Bid</p> <p>The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per the Technical Bid Proforma (Annexure-B).</p> <p>Bid II _Price Bid</p> <p>The price bid should be submitted in the Tabular format (BoQ) as per the Financial Bid Proforma (Annexure -C) uploaded in the e-Tender web site. The Quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras.</p>
5)	<p>Price:</p> <ol style="list-style-type: none"> a) The price should be quoted only in INR net per unit (after breakup) and must include all packing, transit insurance and delivery charges to the Department of Applied Mechanics and Biomedical Engineering, IIT Madras. b) The rate quoted shall be all inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document. c) The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for custom duty at a concessional rate, i.e., 5.5%. Relevant certificates will be issued by IIT Madras wherever necessary. d) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.
6)	<p>Tenderer shall submit along with this tender:</p> <ol style="list-style-type: none"> (i) Proof of having ISO or other equivalent certification given by appropriate authorities. (ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number. (iii) GST registration proof showing registration number, area of registration etc. (iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.
7)	<p>Terms of Delivery:</p> <p>Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to Department of Applied Mechanics and Biomedical Engineering, IIT Madras, or named place as per PO, Insurance coverage will be in the scope of the supplier.</p> <p>The tenderer should indicate clearly the time required for delivery of the item (subject to the approval of the Exclusive Purchase Committee-IIT-Madras). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.</p> <p>In the event of delay or non-supply of materials/execution of Contract beyond the date of delivery/completion of job. The penalty will be levied @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IIT M, the PO would be partially or fully cancelled and liquidated damages will be enforced accordingly.</p>
8)	<p>Period for which the offer will remain open:</p> <p>The offer shall remain valid for 120 days from the date of opening of the tender. However, the day up to which the offer is to remain valid being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain valid for acceptance till the next working day.</p>

9)	<p>EMD: The EMD of Rs.1,00,000 to be transferred to the account details mentioned in Annexure I and proof should be enclosed in the Technical Bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive. As per rule no. 5.1.4 (vi) of the Manual of Procurement of Goods, no bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity. Withdrawal of a bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.</p> <p>The Institute shall not be liable for payment of any interest on EMD.</p> <p>As per the Public Procurement Policy for MSEs, Order 2012 dated 25.03.2022, EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by the Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by the Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing the technical bid)</p>
10)	<p>Performance Security: -</p> <p>The successful bidder should submit Performance Security for an amount of 5% of the basic invoice value of the contract/supply. The Performance Security may be furnished in the form of an Insurance Surety Bond, Account Payee DD, FD Receipt in the name of "The Registrar, IIT Madras" from any scheduled commercial bank or Bank Guarantee from any scheduled commercial bank in India or online payment in an acceptable form. The performance security should be furnished within 14 days from the date of the purchase order.</p> <p>Performance Security in the form of Bank Guarantee: - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly to IIT Madras from the Bank.</p> <p>The Performance Security Deposit should remain valid for a period of sixty days beyond the date of completion of all contractual obligations.</p>
11)	<p>For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.</p>
12)	<p>The offers/bids should be submitted only for an item/Equipment of the exact standard that is acceptable to IIT Madras without Prejudice. The details of a list of customers in India for whom the item is already supplied with must accompany the quotations. Quotations for a prototype machine will not be accepted</p>
13)	<p>Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the technical bid.</p>
14)	<p>Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal/OEM.</p>
15)	<p>Risk Purchase Clause</p> <p>In the event of failure of contractual obligation during the schedule, the Office of Industrial Consultancy and Sponsored Research, Indian Institute of Technology Madras has all the right to engage other sources on the total risk of the sanctioned vendor under risk purchase clause.</p>
16)	<p>Payment:</p> <p>(i) As per GFR 2017 Terms: 90% Payment after supply and 10% after installation are agreed to wherever the installation is involved.</p> <p>(ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment (not more than 30%) is required, the Vendor has to submit a</p>

	Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.
17)	<p>On-site Installation:</p> <p>The equipment/item or Machinery has to be installed or commissioned by the successful bidder within the number of days (as prescribed by PI) from the date of receipt of the item at the site of IIT Madras.</p>
18)	<p>Warranty:</p> <p>The offer should clearly specify the warranty period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).</p> <p>** Note: PO which involves installation, warranty shall be applicable from date of installation.</p>
19)	<p>Acceptance and Rejection:</p> <p>Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.</p> <p>I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.</p>
20)	<p>Debarment from Bidding:</p> <p>In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date as fixed by IIT Madras.</p>
21)	<p>Disputes and Jurisdiction:</p> <p>Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate an arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.</p> <p>a. The Applicable Law: The Purchase Order shall be construed, interpreted and governed by the Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.</p> <p>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 the city of Chennai in Tamil Nadu.</p>
22)	<p>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.</p> <p>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.</p>

	<p>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.</p>
23)	<p>Eligibility Criteria:</p> <ul style="list-style-type: none"> ➤ As per the Government of India Order, only “Class - I Local Suppliers” and “Class - II Local Suppliers” <u>can participate in this tender.</u> ➤ <u>Bidder should confirm their acceptance that they comply with the provisions with report to “Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-E. The bidder should submit Certificate for “Bidder from/ Not from Country sharing Land border with India & Registration of Bidder with Competent Authority” as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 and No.F.7/10/2021-PPD(1) dated 23.02.2023 and No.F.7/10/2021-PPD(1) dated 23.02.2023.</u>
24)	<p>Preference to “class I Local Suppliers”: preference will be given to “class I local suppliers” (subject to class -I local supplier’s quoted price falling within the margin of purchase preference) as per public procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 – pp(BE - 11) dt 04/06/2020 subject to the conditions that the “class I Local Supplier” should agree to supply goods / provide service at L1 rate and furnish a certificate with the technical bid document that the goods/service provided by them consists local content equal to or more than 50%.(certificate from Chartered Accountant in case value of contract exceeds Rs 10 crore).</p> <ul style="list-style-type: none"> ➤ ‘Class - I local supplier’ means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to or more than 50% as defined under the above said order. Declaration to be provided as per Annexure-D per item/service/work. ➤ ‘Class - II local supplier’ means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to 20% but less than 50% as defined under the above said order. Declaration to be provided as per Annexure-D per item/service/work. ➤ ‘Margin of purchase preference’: - The margin of purchase preference shall be 20%. The Definition of the margin of purchase preference is defined in the Govt. of India Order No: P-45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India Order – “Margin of Purchase Preference” means the maximum extent to which the price quoted by a “Class-I local supplier” may be above the L1 for the purpose of purchase preference. <p>**Note: Local content percentage to be calculated in accordance with the definition provided at clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021</p>
25)	<p>Evaluation of Bids</p> <p>Bid evaluation will take place in two stages.</p> <p>Stage I Technical Bid evaluation</p> <p>All bids received within due date and time will be opened for technical evaluation as per scheduled time. All bidders who have fully complied with bidder eligibility criteria I, II and technical Specification (Annexure B) will only be considered for opening of financial bid.</p> <p>Stage II: Financial Bid Evaluation</p> <p>The Financial bid evaluation will be based on price quoted by the bidder. The rate quoted for</p>

	LOW FORCE FATIGUE MACHINE unit will alone be taken up for arrival of Lowest Bid (L1) value.
26)	In accordance to the Rule 173 of GFR,2017 and relevant provisions thereof in Procurement Manuals, 2022, IC&SR, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case-to-case basis shall be recorded in minutes of meetings suitably for records.
27)	Selection of successful bidder and Award of Order The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020.
28)	All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
29)	The tenderer shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract.
30)	Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal.
31)	In the e-tender process, participation of bidders after the due date is not possible. The eligible bidders can login to the e-Procurement portal to ascertain the tender status.

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under “Specification, Guidelines, Terms and Conditions” of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

**SIGNATURE OF TENDERER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

Bidder Eligibility Criteria and Technical Specification for LOW FORCE FATIGUE MACHINE

Tender No. AM/LAKSH/172/2024/LOWFORCE

Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and other subsequent orders issued therein (ANNEXURE – D)

Bidder Eligibility Criteria – II

1. Vendor Registration ID/Proof.
2. Land Border Certificate (ANNEXURE – E).
3. **OEM Certificate Form**-The Participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified authorized firm (ANNEXURE – F).
4. Bidder must submit the OEM Authorization letter referring to the tender number.
5. Non- Debarment Declaration (ANNEXURE – H).
6. Mandate Form (ANNEXURE – J)
7. EMD as per Tender, to be remitted in the account number as given in the (Annexure – I) or EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid).
8. The bidder should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs, or other Govt. other globally reputed R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end-user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder.
9. The minimum average Annual Turnover of the Bidder in the last 3 financial years must be INR 15 Crore.
10. The bidder should be able to supply the above-mentioned specification only by a single party, and they should provide the authorized technical and service support personnel.
11. Bidder must have dealt with the quoted OEM products for more than 2 years in India. PO copies for the Proof must be submitted.
12. A local support office in Chennai, Tamil Nadu is mandatory. Document Proof of the local support office with support Engineer details must be provided.
13. Buyer reserves all the rights to demand a site visit or demonstration of the Quoted product to any Bidder to prove their technical compliance claims.

III. Technical Specification for Low Force High-Cycle Fatigue Testing Machine

Technical Specification for Supply of LOW FORCE HIGH-CYCLE FATIGUE TESTING MACHINE		
To study the material characterization of Meniscus, Cartilage, Insect Wings, Silk, and other materials. The machine should have the capability to perform below specified tests:		
1. Monotonic (Tensile/ Compression/Bending) loading. 2. Fatigue tests (Low cycle & High cycle)		
Bidder is requested to attach case studies/papers of the system being used in the above applications		
S.No.	Requirements	Specifications
1	Technology	1) The instrument should allow for compression, tension and bending of soft materials. 2) The system should have the capability of attaching different types of grips for the above-mentioned tests and allow for custom designed grips and test set-ups. 3) The system should have/allow for thermostatic test unit for testing of biological materials in controlled conditions of temperature and moisture.
2	Technical specifications	<p>The system is expected to have the following specifications:</p> <p>Main requirements:</p> <p>Types of load cells required: 100N (max allowable force $\pm 150N$) 10N (max allowable force $\pm 30N$)</p> <ul style="list-style-type: none"> - Working range of max 100Hz with 100N loadcell and 50Hz for 10N loadcell. - Non-linearity & Hysteresis: ± 0.3 % of full scale or better. - We would like to have the following range of loads detectable with consistency: Minimum (0.01 N) and Maximum load (100N) <p>Actuator:</p> <ul style="list-style-type: none"> - High Frequency 100N electric crosshead mounted actuator. - Speed accuracy $\sim \pm 0.1$ % - Frequency of testing 0.01Hz to 100 Hz - An amplitude performance chart at full load and no load to be submitted mandatorily. - The actuator should be less than 25kgs for easy movement. <p>Loading frame:</p> <ul style="list-style-type: none"> - The loading frame shall be two free standing precise machined column, self-supporting unit resting on base without demanding any special machine foundation. - Very High stiffness Loading frame to minimize deformation under load. - Test Space Min. 350 mm wide or better, clear test space shall be minimum up to maximum 450 mm or better without test fixtures. - Not to weigh beyond 100kgs excluding grips. - Manual Hand wheel for crosshead movement with frictional clamp by bolt tightening mechanism. - Elastomeric isolation mounts to avoid vibrations during fatigue testing.

<ul style="list-style-type: none"> - Emergency stop switches at the convenient location in the frame. - Supporting frame with minimum 40mm diameter. - Total height of the frame to be not beyond 1200mm. 		
<p>Resolution:</p> <ul style="list-style-type: none"> - Sensitivity of load cells (0.02%) and the displacement actuator - Max stroke for ±10mm for 100N loadcell and ±2mm for 10N. - Displacement resolution ≤1 μm 		
<p>Controller:</p> <ul style="list-style-type: none"> - Wave frequency: 0.00001 to 500 Hz. Along with automatic adaptive control and autotuning feature. - A Stand-alone multi-functional controller with LCD touch screen, test operation keys, numeric keypad, and to control the hydraulic power unit with live waveform display - 24-bit controller with Data sampling rate: 40kHz or better - Types of waveforms: Sine, triangular, rectangular, haversine, haver-triangular, haver-rectangular, trapezoidal, ramp, 1/2 haversine, step, sweep, random, external input and file waveforms. A waveform control feature if pause and re-start functions are mandatory. - Maximum number of channels in the controller 8CH or higher. - Total Analog input and output channels; 1CH and 4CH. Digital I/O 8CH. - PC communication through high-speed USB - The controller should possess Automatic Gain Control which will correct the settings signal according to the peak value setting of the measurement value. - Controllers should be equipped with overload protection. - The controller should have a wave form distortion correction function. - Controller should have real-time adjustment control to monitor the measurement value during testing. 		
<p>Connectivity and data:</p> <ul style="list-style-type: none"> - Flexible interfacing between PC and controller should be mandatory. - USB connectivity - Data sampling speed: 40 kHz or Higher. - Data capture speed: 3 kHz or better - Cross Head Speed range min with ≤ 0.001 to ≥ 1000 mm/min 		
<p>Explicit Needs:</p> <ul style="list-style-type: none"> - Tensile grips for testing flat specimens. - Compression grips (optional) - loadcells of 1 N and 50N capacity (optional) <p><i>*Please provide separate quotations for optional accessories</i></p>		

3	Range of materials that are planned for testing	Sample	Modulus (MPa)	Maximum force (N), T-Tension, C-Compression
		Mycelium composites	1 – 500	10 (T), 50 – 100 N (C)
		Cartilage	0.1- 50	10 (T), 50 – 100 N (C)
		Meniscus	1 - 200	10 (T), 50 – 100 N (C)
		Insect wings	1000 – 5000	10 ⁻⁴
		Silk	1000- 10000	0.5-2

4	Processing Software	<ul style="list-style-type: none"> - System should allow transfer of raw data from the experiments. - Software should be from the same OEM; Use of external 3rd party software is not permitted. - The software should be compatible with other software such as MATLAB to plan the experiments. - The interface must be through an LED/LCD display of at least 5'. - Regular updates of the processing software are expected from the vendor at least for 5 – 10 yrs. - Synchronous testing should be possible with up to four controllers. - To measure and determine the changes in a test specimen by applying repeated loads to it and determine the absolute spring constant, stored spring constant, loss spring constant, and loss factor. - To measure the static spring constants of a specimen by applying static tensile or compressive loads. - Storage of status logs during different conditions like start, stop, load conditions, test pause, restarts and any alarm arises during tests.
5	Certification	The system should comply with ISO 9001:2008
6	Warranty	Minimum One Warranty from the Manufacturer.
		Additional Warranty is for One year after the expiry of Standard Warranty (Optional)
		AMC to be quoted from 3rd year onwards for a period of 3 Years i.e. 3rd - 5th Year (Optional)

TECHNICAL BID PROFORMA

Tender No. AM/LAKSH/172/2024/LOWFORCE
Item Name: LOW FORCE FATIGUE MACHINE

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content Percentage	Ref. Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein (ANNEXURE – D)			

2.0 Bidder Eligibility Criteria:

II	Bidder Eligibility Criteria-II	Complied/Not Complied	Ref Page No.
1	Vendor Registration ID/Proof		
2	Land Border Certificate (ANNEXURE – E)		
3	OEM Certificate Form -The Participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified authorized firm (ANNEXURE – F)		
4	Bidder must submit the OEM Authorization letter referring to the tender number.		
5	Non- Debarment Declaration (ANNEXURE – H).		
6	Mandate Form (ANNEXURE – J)		
7	EMD as per Tender, to be remitted in the account number as given in the (Annexure – I) or EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid).		
8	The bidder should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs, or other Govt. other globally reputed R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end-user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder.		

9	The minimum average Annual Turnover of the Bidder in the last 3 financial years must be INR 15 Crore.		
10	The bidder should be able to supply the above-mentioned specification only by a single party, and they should provide the authorized technical and service support personnel.		
11	Bidder must have dealt with the quoted OEM products for more than 2 years in India. PO copies for the Proof must be submitted		
12	A local support office in Chennai, Tamil Nadu is mandatory. Document Proof of the local support office with support Engineer details must be provided.		
13	Buyer reserves all the rights to demand a site visit or demonstration of the Quoted product to any Bidder to prove their technical compliance claims.		

3.0 Technical Compliance:

To study the material characterization of Meniscus, Cartilage, Insect Wings, Silk, and other materials. The machine should have the capability to perform below specified tests:

1. Monotonic (Tensile/ Compression/Bending) loading.
2. Fatigue tests (Low cycle & High cycle)

Bidder is requested to attach case studies/papers of the system being used in the above applications.

S.No.	Requirements	Specifications	Complied/ Not Complied	Ref Page No.
1	Technology	1) The instrument should allow for compression, tension and bending of soft materials. 2) The system should have the capability of attaching different types of grips for the above-mentioned tests and allow for custom designed grips and test set-ups. 3) The system should have/allow for thermostatic test unit for testing of biological materials in controlled conditions of temperature and moisture.		
2	Technical specifications	The system is expected to have the following specifications:		
		Main requirements: Types of load cells required: 100N (max allowable force $\pm 150\text{N}$) 10N (max allowable force $\pm 30\text{N}$) - Working range of max 100Hz with 100N loadcell and 50Hz for 10N loadcell. - Non-linearity & Hysteresis: $\pm 0.3\%$ of full scale or better.		

	<ul style="list-style-type: none"> - We would like to have the following range of loads detectable with consistency: Minimum (0.01 N) and Maximum load (100N) Actuator: - High Frequency 100N electric crosshead mounted actuator. - Speed accuracy $\sim \pm 0.1 \%$ - Frequency of testing 0.01Hz to 100 Hz - An amplitude performance chart at full load and no load to be submitted mandatorily. - The actuator should be less than 25kgs for easy movement. Loading frame: - The loading frame shall be two free standing precise machined column, self-supporting unit resting on base without demanding any special machine foundation. - Very High stiffness Loading frame to minimize deformation under load. - Test Space Min. 350 mm wide or better, clear test space shall be minimum up to maximum 450 mm or better without test fixtures. - Not to weigh beyond 100kgs excluding grips. - Manual Hand wheel for crosshead movement with frictional clamp by bolt tightening mechanism. - Elastomeric isolation mounts to avoid vibrations during fatigue testing. - Emergency stop switches at the convenient location in the frame. - Supporting frame with minimum 40mm diameter. - Total height of the frame to be not beyond 1200mm. 		
	<ul style="list-style-type: none"> Resolution: - Sensitivity of load cells (0.02%) and the displacement actuator - Max stroke for $\pm 10\text{mm}$ for 100N loadcell and $\pm 2\text{mm}$ for 10N. - Displacement resolution $\leq 1 \mu\text{m}$ 		
	<ul style="list-style-type: none"> Controller: - Wave frequency: 0.00001 to 500 Hz. Along with automatic adaptive control and autotuning feature. - A Stand-alone multi-functional controller with LCD touch screen, test operation keys, numeric keypad, and to control the hydraulic power unit with live waveform display. - 24-bit controller with Data sampling rate: 40kHz or better - Types of waveforms: Sine, triangular, rectangular, haversine, haver-triangular, haver-rectangular, trapezoidal, ramp, 1/2 haversine, step, sweep, random, external input and file waveforms. A waveform control feature if pause and re-start functions are mandatory. 		

		<ul style="list-style-type: none"> - Maximum number of channels in the controller 8CH or higher. - Total Analog input and output channels; 1CH and 4CH. Digital I/O 8CH. - PC communication through high-speed USB - The controller should possess Automatic Gain Control which will correct the settings signal according to the peak value setting of the measurement value. - Controllers should be equipped with overload protection. - The controller should have a wave form distortion correction function. - Controller should have real-time adjustment control to monitor the measurement value during testing. 																				
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5	Certification	The system should comply with ISO 9001:2008		
6	Warranty	Minimum one warranty from the manufacturer.		
		Additional Warranty is for One year after the expiry of Standard Warranty (Optional)		
		AMC to be quoted from 3rd year onwards for a period of 3 Years i.e. 3rd - 5th Year (Optional)		

(Note: It is mandatory for the bidders to provide the compliance statement (Complied/Not Complied) for the above points with document proof as required). If the compliance statement (Complied /Not Complied) is not furnished for the evaluation Bidders will be disqualified.

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)**Item Name: LOW FORCE FATIGUE MACHINE****Tender No. AM/LAKSH/172/2024/LOWFORCE**

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Low Force Fatigue Machine with One Year Warranty	1	No.			
2	Additional Warranty is for One year after the expiry of Standard Warranty for Low Force Fatigue Machine(Optional)	1	No.			
3	AMC to be quoted from 3rd year onwards for a period of 3 Years i.e. 3rd - 5th Year for Low Force Fatigue Machine (Optional)	1	No.			
	Grand Total					

Total Amount Rupees in words _____

Note:

1. Price bid as per this format to be uploaded only at the financial document column in CPP Portal. Price disclosure at the technical bid will result in disqualification.
2. Technical Bid Should NOT Contain Price Bid/Financial Bid details (or) Indication. If the price Details are indicated, mentioned inside the technical bid, then bid will be disqualified and neither the Technical Bid nor the Price Bid/Financial Bid will be considered.
3. Optional Items – to be mandatorily quoted.
4. The Purchaser reserves the right to procure the optional items based on the budgetary provisions.
5. The Value mentioned for Optional items, if any, will not be considered for arriving L1 vendor.
6. *Please provide separate quotes for the optional services.

I/We the bidder accept all the terms and conditions as per tender including all technical & commercial conditions.

Date:
Place:Authorized Signatory
(_____)
Seal and signature

**FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE
IN INDIA – PER ITEM**

Tender Reference Number:

Name of the item / Service:

Date: _____

I/We _____ S/o, D/o, W/o, _____

Resident of _____

Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

Tick (✓) and Fill the Appropriate Category	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under “ Class-I Local Supplier ” category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to 20% but less than 50% and come under “ Class-II Local Supplier ” category.

- The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Address _____

Percentage of Local content: _____%

Country of Origin of Goods: _____

For and on behalf of (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Non-submission of this will lead to Disqualification of bids.

Land Border Sharing Declaration

(To be given on the letter head of the bidder)

In-line with Department of Expenditure's (DoE) Public Procurement Division Order vide ref.

F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020

Tender No. _____

Dated: _____

CERTIFICATE*(Bidders from India)*

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

a) Not from such a country and eligible to be considered for this tender.

OR*(Bidders from Country which shares a land border with India)*

I/We _____ (Name of the bidder) is/are from _____ (Name of the Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. *(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Place:

Signature of the Bidder

Date:

Name & Address of the Bidder with Office Stamp

OEM CERTIFICATION FORM
(In Original Letter Head of OEM)

Tender No: Dated:

We are Original Equipment Manufacturers (OEM) of..... (Name of the company) Ms..... (Name of the vendor) is one of our Distributors/Dealers/Resellers/Partners (tick one) for the and is participating in the above-mentioned tender by offering our product model.....(Name of the product with model number).

..... is authorized to bid, sell and provide service support warranty for our product as mentioned above.

Name and Signature of the authorized signatory of OEM along with seal of the company with Date

TENDER CHECKLIST – Mandatory to be filled and sent (inside the Main Bid Cover) along with Bidding Document.

- (1) I have registered as a Vendor with IC&SR. (Proof to be enclosed)
 To submit document proof pertaining to point.no: 6 of tender ISO certificate, Active GSTIN certificate, valid PAN details.
- (2) Technical Bid details and Financial Bid details have to be provided in a separate folder
- (3) Completed and Signed Form of Tender. The Form of Tender document shall be signed by a person legally authorized. (Proof of Authorization to be enclosed)
- (4) Completed Technical Compliance Statement.
- (5) Evidence of similar contracts completed/Product supplied in case if the details are requested in (**Annexure – A**).
- (6) Certification of Class I / Class II Local Supplier (Goods, Services, or Works) is submitted as part of the technical bid. (**Annexure – D**)
- (7) EMD as per tender norms is deposited and the proof is enclosed (**Annexure – I**)
- (8) Land Border sharing declaration document is submitted (**Annexure – E**)
- (9) Non- Debarment Declaration (**Annexure – H**)
- (10) Authorized agent certificate from OEM is mandatory if Indian agent/Indian office of OEM is participating in this tender on behalf of OEM. (**Annexure F**)

The bid will be valid if all the above documents are provided. Bidders are asked to supply and tick off the required information. Failure to provide any of the stated documents as per tender norms may result in the bid being considered non-compliant and rejected.

Signature of the Bidder

**FORM - A
NON- DEBARMENT DECLARATION**

Date: XXXX

To,
The Indian Institute of Technology Madras,
Sardar Patel road,
Guindy, Chennai - 600036

Subject: Non-debarment declaration in connection with tender RFF No: XXXXXX for procurement of “XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX”

Dear Sir,

This is to notify you that our Firm/Company/Organization <provide Name of the Firm/Company/Organization> intends to submit a proposal in response to the invitation for procurement of “XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX” In accordance with the above we declare that:

- a. We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment.

- b. We are not debarred by any Central/ State Government/ agency of Central/ State Government of India or any other country in the world/ Public Sector Undertaking/ any Regulatory Authorities in India or any other country in the world for any kind of fraudulent activities in last XX years.

Sincerely,

[BIDDERS NAME]

Name

Title Signature



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI 600 036



ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

A. Details of Account Holder

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Permanent Account Number (PAN)*	AAAAI3615G
GST REGISTRATION NO.	33AAAAI3615G1Z6
Telephone No./ Fax No.	Tel - 044-2257 8356
E- mail ID of the FO/AO/REG/DIR	dricrs@iitm.ac.in

B. Bank Account Details:

Institution Account Name (As per Bank Record)	The Registrar, Indian Institute of Technology - Madras
Account No.	2722101003872
IFSC CODE	CNRB0002722
SWIFT CODE	CNRBINBBIIT
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank, IIT-Madras Branch, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch.

I hereby declare that the particulars given above are correct and complete.

Date: 04/08/2023

कृते कनरा बँक / For CANARA BANK


अधिकारी / Officer
आई आई टी चेन्नई शाखा / IIT Chennai Branch
चेन्नई / Chennai - 600 036

करोलिन लेमिना.न
M. KAROLINE LEMINA
अधिकारी
OFFICER
S.P. No:64356


Signature of the Competent Authority
of the Institution with seal.

उप कुलसचिव (आईसी एवं एसआर)
DEPUTY REGISTRAR (IC & SR)
आईआईटी मद्रास
I.I.T. MADRAS

MANDATE FORM

ELECTRONICS CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS.

A. DETAILS OF ACCOUNT HOLDER: -

NAME OF ACCOUNT HOLDER	
COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER/E MAIL	

B. BANK ACCOUNT DETAILS: -

BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE BRANCH IS RTGS ENABLED? IF YES, THEN WHAT IS THE BRANCH <u>IFSC CODE</u>	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT(SB/CURRENT/CASH CREDIT)	
COMPLETE BANK ACCOUNT NUMBER(LATEST)	
MICR CODE OF BANK	

DATE OF EFFECT:

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under the Scheme.

(.....)
Signature of Bidder

Date:

Certified that the particulars furnished above are correct as per our records.
(Bank’s Stamp)

(.....)
Signature of Bidder

Date :

1. Please attach a photocopy of the cheque along with the verification obtained from the bank.
2. In case your Bank Branch is presently not “RTGS enabled”, then upon its upgradation to “RTGS Enabled” branch, please submit the information again in the above pro-forma to the Department at the earliest.