

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p style="text-align: center;">Telephone: (044) 2257 4082 E-mail: ilaksh.adlakha@iitm.ac.in</p>	
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Dr. Ilaksh Adlakha
Project Coordinator

Ref: APM/ILAK/2019/002
Dated: 20/06/2019

Limited Tender No: APM/ILAK/2019/002

Due Date: 11/07/2019, 3:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 11/07/2019, 3:30pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**Support Frame for Magneto-mechanical Characterization**” conforming to the specifications given in **(Annexure-I)**:

Instructions to the Bidder

- I. **Preparation of Bids:** - The Limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- II. **Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier to reach the following address before the due date and time specified in our Schedule:
**Dr. Ilaksh Adlakha,
Department of Applied Mechanics,
IIT Madras
Chennai - 600 036.**
- III. **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first, and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders will be invited for opening of Technical bids. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- IV. **Price:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Applied Mechanics.**

The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- V. **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents 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 the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- VI. **Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. Goods shall not be supplied without an official supply order. Goods should be supplied carriage paid and insured. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,

Dr. Ilaksh Adlakha,
Department of Applied Mechanics,
IIT Madras
Chennai - 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **11/07/2019, 3:00pm**.
The offers / bids should be submitted in two bids systems (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item, and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Limited Tender for supply of “**Support Frame for Magneto-mechanical Characterization**” should be written on the left side of the Outer bigger cover and sealed.
2. If an Indian agent is involved, the following documents must be enclosed:
Foreign principal’s proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
3. The offer/bids should be sent only for a machine that is available in the market and supplied to several customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
4. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.
5. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
6. **Validity:** Validity of Quotation not less than 90 days from the due date of tender.
7. **Local firms:** Quotations should be for free delivery to this institute. If quotations for ex-godown delivery charges should be indicated separately.
8. **Firms outside Chennai:** Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
9. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item. 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. If there is delay, the penalty will be @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 IITM, the PO would be cancelled, and liquidated damages will be enforced.

10. **Risk Purchase Clause:** - In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
11. **Payment:** -
- i. No Advance payment will be made for Indigenous purchase. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
 - ii. **Advance Payment:** - No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor must submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor must submit a Bank Guarantee through a Nationalized Bank of India.
12. **On-site Installation:** - The equipment or machinery must be installed or commissioned by the successful bidder within 15 days from the date of receipt of the item at site of IIT Madras.
13. **Operational Training:** - The supplier should provide equipment training to at least 3 research scholars at the time of installation.
14. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same must be mentioned separately. (For more details please refer our Technical Specifications).
15. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
16. **Acceptance and Rejection:** - 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.
17. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
18. **Disputes and Jurisdiction:** -
- a. **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 one arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceedings 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.

- b. **The Applicable Law:** This 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.
- c. 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.

19. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE

ANNEXURE – I

Technical Specifications

1	Frame	Dual column table-top frame with anti – backlash ball screws driven, max load cell capacity 20 kN with a rigid frame of stiffness not less than 110 kN/mm . Conforming ISO 7500-1 Class 1, BS1610 Class 1, DIN51221 Class 1, ASTM E4 and other international standards.
2	Testing Capability	Auto test force and strain control function (auto gain setting should be possible in real time, based on measured force and strain data) for metal testing compatible to ISO 6892-2009 by avoiding preliminary tests.
3	PC Connectivity	USB only
4	Load cell Capacity	20 kN at (1/1 to 1/500) (20000N to 40N). Machine should have the capacity to fix minimum 10 N capacity if required.
5	Crosshead Speed	minimum 0.005 to ≥ 1000 mm/minute (at all loads)
6	Cross head speed & position accuracy	± 0.1 % or better.
7	Max speed at Max Load capacity	1000 mm/min.
8	Crosshead Stroke Measurement Resolution	≤ 0.02 μm for determining the accuracy of the machine.
9	Return speed	1150 mm/min. or better.
10	Machine Dimensions	Vertical test space between the Cross head and base plate should be 800mm or better (including wedge grips). Column to column distance not less than 500mm to accommodate custom fixtures.
11	Data Sampling	≥ 290 kHz.
12	Date capture	4 kHz or better.
13	Operating Needs	Machine should be capable of working continuously for a maximum of 10 hours .
14	Access Ports	at least 2 input and 4 output ports as standard feature.
15	<u>Explicit Needs</u>	a) Load cell 20 kN (accuracy of ±1%) with minimum rated load range capacity; b) Manual wedge grips for testing metals, plastics etc.; c) Grip faces for flat and round samples (Flat specimens 0 – 7 mm and Round specimens 4 mm-9 mm).
16	Software Capability	Compatible with Windows OS. Cyclic testing of 3 cycles/min with maximum 1000 cycles. Control type software for testing at user defined settings for metals, composites & other similar materials. Incorporate standard methods for testing the properties of metals, plastics, rubber and most materials, and should be configured for ISO, EN, ASTM, JIS, GB, KS and other national

		and international standards. Built in library of ASTM & ISO methods for testing flexible materials.
17	Warranty	A minimum of one-year mandatory plus two-years extended warranty.
18	Safety Features	Machine should get automatically stopped if force exceeds a certain level during return or specimen arrangement, two or more emergency stop switches to be placed at prominent positions in the machine frame, upper and lower crosshead limiters, overload limiter to protect the load cell.
19	Supplier Capability	It's mandatory to have that the firm should have supplied at-least 5 machines of similar specifications to IIT's, NIT's or DRDO, CSIR Institutes in the last two years and a successful performance till date.
20	Service Capability	Guaranteed availability of after sales service in India preferably in Chennai.
21	Delivery Schedule	Within three months of releasing the purchase order.
22	Compliance statement	Compliance statement needs to be provided by bidders clearly specifying COMPLY/NON-COMPLY with remarks for all the points mentioned above

OPTIONAL (but mandatory to quote):

- Compression platens (Material Stainless steel) of **100 mm** diameter that can withstand max capacity **250 kN**.
- Flexural/Bending jig to test metal specimens with maximum rated capacity of the machine. Jig to be compatible with international standards.