

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p>Telephone: [044] 2257 9798/9760 FAX: [044] 2257 4017 E-mail: arpp@iitm.ac.in</p>	
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V. Sathyanarayanan
Senior Manager (Project Purchase)

Ref: ASE/RAMV/001/2018
Date: 15.10.2018

Open Tender No: ASE/RAMV/001/2018

Due Date: 5th November 2018, 3pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on 5th November 2018, 4 PM at Department of Aerospace Engineering, IIT-Madras.

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**Lab-Scale Autoclave**” conforming to the specifications given in Annexure I.

Vendor who can supply and integrate the above equipment alone need to respond to the tender please.

Instructions to the Bidder

- I. Preparation of Bids:** - The 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 addresses mentioned below, either by post or by courier so as to reach our office before the due date and time specified in our schedule. The offer/bid can also be dropped in the tender box on or before the due date and time specified in the schedule.
The tender box is kept in the office of the:

**Senior Manager,
Project Purchase,
IC & SR Building 2nd floor,
I.I.T. Madras,
Chennai – 600 036.**

In case of foreign vendors, the technical and the financial bids may be sent as separate files (with password protection) along with other required documents to smpur-icsr@iitm.ac.in Both the bids must have the tender reference number mentioned clearly. Password should sent atleast 1 day before tender opening date.

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 will be examined by a technical committee which will decide the suitability of the bids as per our specifications and requirements. All bidders will be invited for opening of technical bids. With respect to opening the financial bid, only technically qualified bidders will be called.

IV. Prices: - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Aerospace Engineering, IIT Madras**. 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 after receipt of the equipment and its satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in the tender document 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 the percentage of payment and it should be included in the basic price quoted originally (if any)..

VI. Terms of Delivery: - The item should be supplied to the **Departments of Aerospace Engineering, IIT Madras** as per the Purchase Order. 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. Technical Bid Opening: The technical bid will be opened on 5th November 2018 at 4 p.m. at the **Department of Aerospace Engineering, IIT-Madras** and the financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.

VIII. IIT Madras reserves the full right to accept / reject any tender at any stage without assigning any reason.

Yours sincerely,

V. Sathyanarayanan
Senior Manager (Project Purchase)
IC&SR Building, I.I.T. Madras,
Chennai – 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **05.11.2018, 3 pm.**

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 Open Tender for supply of **"Lab-Scale Autoclave"** should be written on the left side of the Outer bigger cover and sealed.

2. **EMD: - Rs. 1,50,000 (One lakh fifty thousand rupees only) in the form of DD in favor of "The Registrar, IIT-Madras" and payable at Chennai.** EMD demand draft should be enclosed in the cover containing technical bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive. (However, in case the Bid security is more than a threshold (Rupee five lakh) and in case of foreign bidders in GTE tenders it may also be allowed in the form of a bank guarantee (in equivalent Foreign Exchange amount, in case of GTE) issued/confirmed from any of the scheduled commercial bank in India in an acceptable form, and so on, safe guarding the purchaser's interest in all respects.)

The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD. 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) or registered with the Central Purchase Organization or with IIT Madras as on the date of submission of bids.

When no local agent, the foreign vendor can submit demand draft equal to Rs. 1,50,000 or wire transfer the amount to our account as detailed in the attachment (Annexure II) and enclose the proof with the technical bid.

3. **Performance Security:** - The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt from the commercial bank, Bank Guarantee from any nationalized bank in India. **The performance security should be furnished within 21 days from the delivery of the purchase order.**

Performance Security in the form of Bank Guarantee:- Incase the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

4. **Indian agent:** 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.
5. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
6. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.
7. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
8. **Validity:** Validity of Quotation not less than 90 days from the due date of tender.
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.
Normally the delivery should be in 8 weeks from date of PO. 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 10 weeks, 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:-** 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).
12. **Advance Payment:** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to 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 has to submit a Bank Guarantee through a Nationalized Bank of India.
13. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at site of IIT Madras.
14. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Normally the warranty should be for three years from the date of commissioning of the equipment. After the warranty of three years, the bidder should be willing to maintain the equipment for another 2 years at an AMC rate which should be specified in the

bid by the bidder. Also the manufacturer should give an undertaking to support the equipment for 5years from the date of supply. Also no equipment which is not currently in production should be quoted. Any extended warranty offered for the same has to 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:

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 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.

- a. **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.
- 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.

20. 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**

Lab scale Autoclave:

Technical requirements:

1. Dimensions of autoclave: a. Equal to or Greater than 900mm diameter
b. Equal to or Greater than 1000mm length
2. Maximum Temperature requirement: Greater than 195 deg C
3. Maximum Pressure: Less than or equal to 7bar
4. Heating rate: Adjustable 0 to 3 deg C per min
5. Cooling rate: Greater than 2 deg C per min
6. Air Temperature Accuracy: Maximum deviation ± 1 deg C
7. Temperature Uniformity: Maximum deviation ± 2 deg C (under steady state condition)
8. Pressure Control Accuracy: Maximum deviation ± 0.1 bar
9. Vacuum control accuracy: Maximum deviation $\pm 5\%$ of Full scale reading
10. Maximum Vacuum at source: Not more than 3 mbar
11. Computerised Data Acquisition system (6 channels)
12. Warranty period: 1 year + 2 years extended warranty

Other requirements:

1. Auto, semi-auto and manual modes of operation.
2. Peripheral duct for efficient air circulation.
3. Creep and oxidation resistant high temperature heating elements
4. SS tubular Heat exchanger with fins for better heat transfer.
5. Water softener for long life of heat exchanger and fan motor.
6. Door lock safety device to prevent opening under pressure.
7. Pressure & temperature overshoot prevention.
8. Manual override (if the computer, PLC and control system fails)
9. Earth leakage trip for the electrical system.
10. High current and overload protection for all the motors.
11. Requirements of auxiliary equipments and other accessories for installing the autoclave have to be clearly specified by the vendor.

After sales service:

1. Vendors should provide continuous technical support and maintenance of equipment during warranty period.
2. Vendors must have sufficient experience in supplying equipment in reputed organisations for research purpose. Experience of the end users will also be used as a criterion for the selection of bids that meet technical requirements.
3. Vendors must provide detailed documentation for the equipment.
4. Vendors must provide training to our technical staff for using the equipment, free of cost.
5. Expenses towards boarding & lodging for vendor's staff during installation, training, post sales technical support and warranty service will be borne by the vendor.

Handwritten signatures:
A.S. H. Selvaraj
S. S. Srinivasan
K. S. Srinivasan
S. S. Srinivasan
S. S. Srinivasan



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



B NAGARAJAN
JOINT REGISTRAR (IC & SR)

Project Accounts
July 22, 2016

TO WHOMSOEVER IT MAY CONCERN

In connection with project, **US currency may be transferred to CANARA BANK, IIT - MADRAS Branch** with the following details.

FOR TRANSFER OF CURRENCY US DOLLAR

Please Credit in USD

(THROUGH)

JP MORGAN CHASE, NEW YORK
SWIFT CODE: CHASUS33

For Credit to

USD ACCOUNT No: 001-1395969, of CANARA BANK INTERNATIONAL DIVISION
MUMBAI

For Further Credit to

ACCOUNT NO: **2722101001741** of IIT Chennai – Swift Code: **CNRBINBBIIT**
OF THE REGISTRAR, IIT, MADRAS

JOINT REGISTRAR (IC & SR) i/c

संयुक्त कुलसचिव (आई.सी. एवं एस.आर.)

JOINT REGISTRAR (IC & SR)

आई.आई.टी. मद्रास

This is to certify that the particulars furnished are correct.

For Canara Bank

Senior Manager
Canara Bank - IIT Madras branch



एस.अरवींदन
S.ARAVINDAN
संयुक्त प्रबंधक Senior Manager
प.अ.सं. S.No.31649