INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036

Telephone: [044] 2257 9798/9723 E-mail: <u>tender@imail.iitm.ac.in</u>



The Senior Manager (Project Purchase)

Ref: MEC/SHMT/027/2019

Date: 02.08.2019

Open Tender No: MEC/SHMT/027/2019

Due Date: 22nd August 2019, 3 PM

Pre-Bid meeting: - Not required.

<u>Technical Bid opening meeting on 22nd August 2019, 4:00 PM at Department of Mechanical Engineering, IIT-Madras.</u>

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "Customized steel melting furnace for gas atomization" conforming to the specifications given in Annexure I.

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:

The senior Manager, Project Purchase, IC & SR Building 2nd floor, I.I.T. 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 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 the 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 the **Department of Mechanical Engineering.** The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. Kindly note that 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 Department of Mechanical 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. <u>Technical Bid Opening:</u> The technical bid will be on 22nd August, 2019, 4:00 PM at the **Department of Mechanical Engineering, IIT-Madras.** 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,

The 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 **22.08.2019**, **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 "Customized steel melting furnace for gas atomization" should be written on the left side of the Outer bigger cover and sealed.

2. EMD: - The EMD in the form of account payee DD for Rs. 1, 50,000/- value of the item in favor of The Registrar – IIT Madras, payable at Chennai should be enclosed in the cover containing technical bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

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).

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.

- 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 (subjected to the executive committee-IITMadras approval). 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 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.
- 12. **Warranty/Guarantee**: The offer should clearly specify the warranty or guarantee 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).
- 13. **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.
- 14. **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.
- 15. Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.

16. 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 on 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 contact pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
- 17. 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

Specifications of customized steel melting furnace for gas atomization

Metal holding capacity (minimum) Met temperature (maximum) Material to be melted Stainless steel (like SS 316) Furnace to handle (argon) gas pressure above melt Temperature control (closed-loop) Temperature Thermocouple through the stopper rod monitoring Crucible type Bottom feed with stopper rod Induction Metarial to be material Stopper rod material Stopper rod should rest on the seat to prevent molten metal leaking out with the max gas pressure above the melt Stopper rod control 2 position control (on-demand) Crucible refractory material Bar shape Power unit (for furnace) Voltage 400 volts Phase 3 Frequency 50 Hz Power 15-35 kW Power control Digital Chiller unit (for furnace) Cooling fluid Distilled water (recirculating) Power handling Suitable for the power unit Coolant flow rate Suitable refractory material to handle 1800°C Suitable for the power unit Coolant flow rate Suitable for the power unit Met crucible Material Suitable refractory material to handle 1800°C Crucible volume 3000 cc Material Suitable refractory material to handle 1800°C	Description	Specification
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Crucible volume 3000 cc	more of dolble	
Crucible volume 3000 cc	Material	Suitable refractory material to handle 1800°C
	Crucible volume	
v·····································	(minimum)	

Safety			
Suitable safety arrangements to address high temperature and pressure conditions			
Safety training should b	e given to 2 IIT Madras personnel for handling the furnace		
Other conditions			
Other conditions			
Scope of supply	Furnace (1) + power unit (1) + chiller unit (1)		
1 117			
	The furnace, power unit and chiller unit should be separate from each other		
	as the system will be integrated with a gas atomization system		
Prior business	Supplier should have experience of making furnace for gas-atomization		
experience	systems and should have supplied and successfully installed similar		
	equipment to reputed industries and/or academic institutions. In support of		
	this supplier must submit a list of customers using the furnace.		
Installation	The system should be installed and demonstrated		
Packaging charges	Should be included in the quotation		
<u> </u>	Should be included in the quotation		
Installation charges	Should be included in the quotation		
Delivery	10-12 weeks		
Warranty	1 year		
Training	Two persons should be imparted the necessary training to operate the		
	furnace		
User manuals	User manuals to operate the system should be provided		
Optional items			
Pyrometer for measuring melt temperature			
	g meil temperature		
10 spare stopper rods			
10 spare crucibles			
Extended warranty for 2	more years		
AMC for 3 years			