

## **Vendor Technical Pre-Qualification**

Sr No.	Description
1	Minimum 5 years of experience in the manufacturing of furnace industry.
2	Should have installed at least 10 machines at different educational / private / public institutions and organizations.
3	The quoted machines must be from the manufacturer's standard production range. Prototypes or machines developed on a custom basis will not be accepted.
4	Authorized dealer/distributor certification from original equipment manufacturers.
5	Specify the list of spare parts to be supplied with the furnace.
6	Specify the make of all critical parts including heaters.
7	Bidder/authorized dealers' OEM must be capable of providing supply, servicing, spare parts, technical assistance, and training, along with periodic technical updates, for a minimum of 5 years after the machine's supply.
8	The warranty period should be clearly mentioned. The comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. Annual maintenance charge (AMC) post-warranty period should be specified.

## **Technical Specifications**

AURIS Requisition Number: 2628

Machine Type: Light Weight Muffle Furnace

Quantity: One (01)

Technical Criteria: The technical evaluation of all the proposals will be done in the following parameters:

1. Furnace has ceramic Fiber wool insulation instead of Brick insulation.
2. The outer casing be made of double walled thick P.C.R.C. sheet, finished with powder coating or SS body.
3. Heating elements made of KANTHAL "A-1" wire in coil (or superior) form placed in the ribs of the tiles to have free radiating heating. Backed by Zirconia cerewool insulation.
4. A viewing cap to be provided on the door.
5. Temperature of the furnace should be controlled by a microprocessor-based PID controller, with a soft-touch keypad and dual display of process and set temperature.
6. Maximum temperature upto 1200°C

7. Working Temp. upto 1050°C.
8. A thermocouple fuse for safety to avoid overheating.
9. Power supply 230 V or 400/440 V 34), AC.
10. Temperature Accuracy:  $\pm 2$  °C.
11. Furnace must have a provision for inserting gas pipe for inert atmosphere inside the heated chamber.
12. The furnace working hot zone chamber size be at least 250 x 250 x 300 mm or larger.

## Terms & Conditions

### **1. General Overview**

This document outlines the terms and conditions (T&Cs) that apply to the procurement of Light Weight Muffle Furnace, which will be provided as part of this tender. All prospective suppliers must adhere to these T&Cs to participate in the tender process.

### **2. Submission Guidelines**

- i) Submission Deadline: Bids must be submitted no later than 21 days from publication on Ahmedabad University Portal. Late submissions will not be accepted.
- ii) Submission Format: All tender submissions must be made with a sealed copy to the Procurement Office, Ahmedabad University, Gate No. 2, Commerce Six Roads, Navrangpura, Ahmedabad – 380009.
- iii) Tender Validity: The tender must remain valid for a minimum of 60 days from the submission deadline.

### **3. Technical Specifications**

- i) Product Requirements: Tenderers must provide a Lightweight Muffle Furnace that meets the specified technical and performance criteria outlined in Technical Specifications Sheet (attached technical specification).
- ii) The Supplier is responsible for ensuring that all equipment and materials are delivered in full working order and meet the specified technical requirements.
- iii) The Supplier shall also provide any necessary training, documentation, or additional services as stipulated in the tender.

### **4. Pricing and Payment Terms**

- i) Price Structure: The tender price must be inclusive of all costs, including but not limited to delivery, installation, training, and any other charges.
- ii) The bidder should propose a one-year AMC cost along with the proposal.
- iii) The pricing is inclusive of delivery and installation upto the Ahmedabad University.
- iv) Payment Schedule: The payment will be after 100% satisfactory delivery and installation of the equipment.
- v) Taxes: The price should be exclusive of any applicable taxes, which must be indicated separately.

### **5. Delivery and Installation**

- i) Delivery Timeline: The Furnace must be delivered within 6 weeks from the date of order confirmation.
- ii) Installation: The Supplier must be responsible for installation of the Furnace at the Composites Laboratory or at the dedicated space as instructed by the University.

### **6. Inspection and Testing**

- i) Pre-Delivery Inspection: The Contractor must provide pre-delivery inspection and acceptance testing for the Furnace.
- ii) Post-Delivery Testing: Upon installation, the Furnace must undergo functional testing to ensure it meets the specified technical requirements.

- iii) Defects and Non-Conformance: If any defects or non-conformance to specifications are identified during testing, the Contractor shall correct them at their own cost.
7. Training and Documentation
- i) Operator Training: The Contractor must provide on-site training on the operation and maintenance of the Furnace.
  - ii) Documentation: The Contractor shall provide detailed user manuals, technical documentation, and maintenance guidelines in both hard copy and electronic format.
8. Warranty and Support
- i) Warranty Period: The Furnace shall have a warranty period of not less than one year from the date of installation.
  - ii) Warranty Coverage: The warranty should cover repairs, parts replacement, and labor for any defects in materials or workmanship.
  - iii) Service Level Agreement (SLA): The Contractor must provide an SLA for post-installation support, including response times for maintenance and repairs.
9. Confidentiality
- i) Confidential Information: Both parties shall treat all information shared during the tender process and contract execution as confidential.
10. Termination Clause
- i) The University reserves the right to terminate the Agreement without cause by providing 30 days written notice to the Supplier. In such cases, the Buyer shall pay for any Goods delivered and accepted by the Buyer up to the date of termination.
11. Dispute Resolution
- i) Any disputes arising out of or in connection with this Agreement shall be resolved through amicable negotiations between the parties.
  - ii) If the dispute cannot be resolved through negotiations, the parties agree to submit the dispute to Arbitration in accordance with the rules of Arbitration and Conciliation Act 1996.
12. Force Majeure
- i) Impact on Obligations: Neither party shall be held liable for failure to perform obligations under this contract due to force majeure events.
13. Compliance with Laws and Regulations
- i) Legal Compliance: The Contractor must comply with all applicable laws, regulations, and standards governing the manufacture, delivery, and installation of the Furnace.
  - ii) Environmental Compliance: The Furnace must meet environmental standards and regulations related to energy consumption, material disposal, and recycling.
14. Governing Law
- i) Jurisdiction: This contract is governed by the laws of India, and any disputes will be resolved within the courts of Ahmedabad.

