

Department of Metallurgy and Materials Engineering

COEP Technological University

(A Unitary public University of Govt. of Maharashtra)
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COEP/MET/2025-26/893

Date: 23/07/2025

To, Vendors

List enclosed

Subject: Enquiry for supply of resistance heating system.

Please quote for the following item with detail bifurcation of basic cost, taxes and other charges if any-

| if any- | (1) | Qty. Reqd |
|----------------------------|--|--------------|
| Descri | ption of Item (s) | |
| y y 16.7° ± 1 1 1 1 | | 01 |
| Resistanc | ee heating system. | |
| Specifications as follows | & Control of the Cont | _ |
| Parameter | Details / Specification | _ |
| Purpose of Furnace | Fused salt electrolysis for rare earth | |
| | oxide reduction | |
| - La booted | Graphite crucible with salt bath | |
| Material to be heated | Resistance heating | |
| Type of furnace heating | 300 mm | |
| Inner Chamber Diameter | 452 mm | |
| Inner Chamber Height/Depth | Cylindrical (Top and Bottom open) | |
| Chamber Shape | | |
| Target Operating Temp. | 1050°-1100° C | |
| Maximum Temp. Rating | 1200°C | _ |
| Heating Element Type | silicon carbide | |
| No. of Heating Zones | Single zone / multi-zone (any) | |
| Covering to heating coil | high-purity alumina ceramic fibre | - |
| 50,0g | (Like muffle furnace) | |

| Power Supply Requirement | Voltage: 230 V | |
|--|--|--------|
| Insulation Material | Ceramic fibre / Firebrick (any suitable) | |
| Outer Body Material | Mild steel / Stainless steel (any suitable) | |
| Outer Dimensions (approx.) | 650 × 650 × 452 mm (Length × Width × Height) | |
| Access Type | Top loading | 2 - 72 |
| Lid/Door Mechanism | Hinged / Lift-off | |
| Temperature Controller | PID / Programmable (regulated) | |
| Temperature Display | Yes (digital) | |
| Atmosphere Requirement | Open air | |
| Mounting Base/Stand | Fixed height stand (600 mm height) | |
| Observation Port Needed | Yes (sliding window of glass (any suitable material)) | |
| Special Requirements | Fluoride atmosphere resistance, corrosion-proof lining (fibre glass) | |
| Safety Features | Over-temp cutoff / Emergency stop / Alarms (any) | 170 |
| 5 hrs holding *Minimum guarantee of satisf | wer load less than 5 KW. C/1100° C for consistently heating minimum Factory performance for at least 2 years ing is the responsibility of supplier. | |

You are requested to quote a competitive rate within 7 days from the date of issue of quotation. Sealed envelope quotation shall superscribe quotation no. and posted to HOD, Metallurgy and Materials Engineering, COEP Technological University Pune, Shivajinagar, Pune-5.

Thanking you

COEP Technological University

HOD
Dept. of Metallurgy and Materials Engineering COEP Technological University,
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(Formerly College of Engineering Pune)

