

Centre for Agricultural Research and Innovation (CARI)
Department of Agriculture
Guru Nanak Dev University, Amritsar

Ref. 870 /CARI

Dated 09/01/2026

NOTICE, INVITING QUOTATION

Subject: Sealed quotations for the purchase of Muffle Furnace: -

Sr.No.	Technical Specifications for Purchase of Muffle Furnace	QTY
		01

Item Name: Muffle Furnace (Rectangular, Laboratory Model)

General Specifications

- **Type:** Electrically operated muffle furnace for laboratory use
- **Design:** Rectangular horizontal chamber, fully enclosed
- **Application:** Ashing, heat treatment, sample ignition, and laboratory thermal processing

Chamber Details

- **Internal Chamber Size (W × H × D):** 150 × 150 × 300 mm
- **Chamber Volume:** 7 Litres
- **Maximum Working Temperature:** Up to 900°C

Heating System

- **Heating Elements:** A-1 grade resistance wire
- **Element Placement:** Uniform heating arrangement for even temperature distribution

Temperature Control

- **Controller:** Microprocessor-based digital PID temperature controller
- **Temperature Display:** Digital (PV/SV)
- **Temperature Accuracy:** $\pm 1^\circ\text{C}$ or better

Construction & Insulation

- **Inner Chamber:** High-grade refractory muffle
- **Outer Body:** Thick mild steel sheet
- **Finish:** Epoxy powder-coated
- **Door:** Counter-balanced, easy-opening insulated door

Insulation: High-quality insulation bricks and mineral wool to minimize heat loss

R.K. Bhullar *M* *J. Singh*

Electrical & Power

- Power Rating: 3 kW
- Power Supply: 220–230 V AC, 50 Hz, single phase

Safety Features

- Over-temperature protection
- Silver fuse / safety fuse
- Proper earthing provision

Accessories & Compliance

- Power cord and plug
- User manual
- Suitable for continuous laboratory operation

Warranty & Support

- **Warranty:** Minimum 12 months from date of installation
- **Installation & Demonstration:** To be provided by supplier at site

Terms & Conditions:

1. Quotations should be addressed to **Coordinator, CARI, Department of Agriculture (Near U I T building), Guru Nanak Dev University, Amritsar- 143005**, so as to reach this office **27 January, 2026 (Tuesday)** at 4.30 p.m. under **registered speed post** duly **super-scribed** on the envelope **"Quotation for Muffle Furnace.**
2. Rates should be inclusive of all taxes, duties, installation and levies in Indian Rupees F.O.R. G.N.D. University, Amritsar, otherwise quoted price will be treated as all inclusive. Rates should be written both in words and figures.
3. The institutional discount should be mentioned clearly.
4. The Quotations shall be written legibly and free from erasing and over-writing. Corrections, if any, should be duly attested by authorized signatory.
5. Bids received within the due date only will be entertained.
6. The quotation should be valid for a period of 60 days for acceptance from the date of opening of the bids.
7. Bidders cannot withdraw their offer once it is submitted.
8. The vendor may quote the items, which meets the requirements and specification along with the layout, make, model, material specifications, dimensions, brochures, photo catalogues of items along the quotation.



9. GNDU Committee also reserves the right to accept/reject the offers or cancel the whole proceedings without assigning any reason whatsoever. In case of any dispute, the matter will be referred to Vice-Chancellor, Guru Nanak Dev University, Amritsar
10. Decision will be binding and final. Bidders are not entitled to claim any damage or compensation in case of such cancellation.
11. Jurisdiction: The disputes, legal matters, court matters, if any shall be subject to Amritsar Jurisdiction only.
12. The delivery of **Muffle Furnace** in the Department of Agriculture in G.N.D. University shall be made within 20 working days of the issue of supply order, failing which the order will be withdrawn.
13. All materials shall be new, unused, and of standard make.
14. The bill payment process will be started as per institutional norms after the purchase of **Muffle Furnace**

R.K. Singh

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Coordinator, CARI
Co-ordinator
Centre for Agricultural Research
and Innovation (CARI)