

Department of Physics

University of Kerala, Kariavattom Campus, Thiruvananthapuram- 695581

KERALA

Tender No: **PHY/388/21-22**

Dated: 18/11/2021

Quotation Notice

Quotations are invited for purchasing a Hydrothermal Bomb Heating Unit from the Department of Physics, University of Kerala.

SPECIFICATIONS FOR HYDROTHERMAL BOMB HEATING UNIT

Item: One Hydrothermal Bomb Heating Unit

No:	Item	Description/Remarks
1.	Hydrothermal Furnace	<p>Type: Vertical, externally rectangular in shape, with cylindrical inner chamber, low thermal mass model, electrically operated.</p> <p>Outer Chamber: Fabricated from mild steel sheet sections, with necessary reinforcement for mechanical rigidity. The structural work will be finished in heat resistant paint.</p> <p>Inner Chamber: Assembled from a combination of high temperature resistant ceramic fibre board and blanket.</p> <p>Mode of Heating: By spirally wound A1 Grade Kanthal heating Coils held in position by suitable refractory supports. The sensor provided is Chromel/Alumel.</p> <p>Temperature Control: By a Thyristor Power Control Unit coupled with a Digital indicating P.I.D Temperature Controller.</p> <p>A Compact Control Cubicles should provide housing the P.I.D. Temperature Controller. Switches and indicators, Safety Fuse, Connecting leads etc.</p> <p>Working Chamber area 200 mm x 200 mm x 200 mm, Maximum temperature 500 °C or higher, Voltage 230 V, 1</p>

		phase, A.C power Rating 2.5 kW. Note: The rising/cooling and dwell time of temperature should be programmable.
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Quotes should be inclusive of the cost, freight, taxes, etc. Terms and conditions of warranty should be clearly mentioned. The Hydrothermal Bomb Heating Unit should be delivered at the Department of Physics, University of Kerala.

Please quote the lowest price for the above item.

The sealed quotations (hardcopies only) should reach "Dr. Savitha Pillai S, UGC Assistant Professor, Department of Physics, University of Kerala, Karyavattom, Thiruvananthapuram - 695 581", Kerala on or before 18.12.2021, 3:00 pm.

Sd/-
Head
Department of Physics
University of Kerala
Karyavattom-695 581
Department of Physics



University of Kerala

Karyavattom

Thiruvananthapuram -695581

Kerala