

**Department of Physics**  
**University of Kerala, Kariavattom Campus, Thiruvananthapuram – 695581**  
**KERALA**

No.Phy/121/2014-15

5-08-2014

**Quotation Notice**

Quotations are invited for purchasing the following equipment in the Department of Physics, University of Kerala

No	Item	Description/Remark
1	Programmable high temperature tubular furnace capable of heating under gas flow/vacuum. Spare heating elements and thermocouple should be included.	<ol style="list-style-type: none"><li>1. Programmable tubular furnace with maximum temperature of 1400 °C.</li><li>2. Furnace tube size: <math>\approx</math> 75mm ID, <math>\approx</math>85 mm OD, <math>\approx</math>1000 mm length tube with re-crystallized high quality alumina.</li><li>3. Working atmosphere: vacuum/Argon/ Nitrogen</li><li>4. Uniform hot zone length: <math>\approx</math>200 mm.</li><li>5. Heating elements: Silicon Carbide rods</li><li>6. Vacuum level: Proper Vacuum gauge should be provided to measure pressure of <math>\approx</math>0.001 mbr.</li><li>7. Insulation: High quality ceramic fiber blankets.</li><li>8. Water-cooling: Efficient water-cooling should be done at the end fittings of the furnace tube to protect the O' rings.</li><li>9. Programmer controller: A digital programmer controller capable of storing programs each having at least 12 segments. The temperature controller should have the accuracy of <math>\pm</math> 1 °C.</li><li>10. Vacuum Pump: A suitable vacuum pump integrated to the furnace should be provided.</li><li>11. Flow meters to should be provided and connected with furnace to indicate gas flow.</li><li>12. Additional heating elements: 4 nos.</li><li>13. Additional thermo couple (R- type):1 nos.</li></ol> The items should be delivered and installed at the Department of Physics of University of Kerala.

Quotes should be inclusive of the cost, freight, taxes, etc. Terms and conditions of warranty should be clearly mentioned. The equipment should be installed in the Department of Physics University of Kerala.

Please quote the lowest price for the above item.

The quotations should reach **“The Professor and Head, Department of Physics, University of Kerala, Kariavattom, Thiruvananthapuram, Pin- 695 581, Kerala” on or before 22-08-2014.**

Sd/-

V. Biju

Head-in-Charge

Department of Physics

University of Kerala

Kariavattom, Thiruvananthapuram