

**Centre for Nanoscience and Nanotechnology, University of Kerala,  
Kariavattom, Thiruvananthapuram-695581  
Ph. No. 0471 2308863**

**Quotation Notice**

No. KU/CNST/QN- 15 /2014-15

Quotations are invited for the supply of a programmable high temperature tubular furnace. Kindly quote your lowest price for the items.

Sl. No	Name of the item	Description of item
1.	Programmable high temperature tubular furnace capable of heating under flow of gas (air, N <sub>2</sub> or H <sub>2</sub> S)	<ol style="list-style-type: none"><li>1. Programmable tubular furnace with maximum attainable temperature of 1000<sup>0</sup>C</li><li>2. Furnace tube size: ≈ 75 mm internal diameter, ≈ 85mm outer diameter, ≈ 1000 mm length. Tube made of inert materials like quartz for use with reactive gases like H<sub>2</sub>S (Hydrogen sulphide).</li><li>3. Working atmosphere: air,N<sub>2</sub> or H<sub>2</sub>S (Hydrogen sulphide) gas</li><li>4. Uniform hot zone length: 20 cm</li><li>5. Heating elements: suitable heating element to attain a maximum of 1000<sup>0</sup>C under reactive gases like H<sub>2</sub>S.</li><li>6. Insulation: Insulation using suitable material such that the temperature on the outer wall of the casing will not exceed 40<sup>0</sup>C when the temperature of the furnace inside is 1000<sup>0</sup>C.</li><li>7. Programmer controller: Microprocessor based PID programmer cum Digital Temperature Indicator with 10 steps.</li><li>8. Power control: Thyristor Power control for Programmable PID.</li><li>9. Temperature controller accuracy: ± 1<sup>0</sup>C.</li><li>10. Thermo couple: Thermo couples to read the temperature (with an accuracy of ± 1<sup>0</sup>C) of the hot zone and the temperature inside the furnace 10 cm from one end.</li></ol>

Sealed quotations should reach the “Honorary Director, Centre for Nanoscience and Nanotechnology, University of Kerala, Kariavattom, Thiruvananthapuram-695581 on or before 26.09.2014, 3.00 pm.

05 -09-2014

Sd/-  
Honorary Director