



# THE UNIVERSITY OF BURDWAN

Department of Physics

Burdwan 713 104

INDIA

Dept. Phone: 0342 -2557800 (O), Fax : +91-342-2530452,

Website : [www.buruniv.ac.in](http://www.buruniv.ac.in)

Tender Ref. No: PHYS/SERB/AD/Tend/002

Date 09.02.2018

## Invitation of Tenders

Quotations are invited in sealed envelope from the interested vendors for the purchase of the following items for a research project sponsored by SERB under Dr Abhigyan Dutta, Principal Investigator at Department of Physics, Burdwan University, Burdwan. The quotations must reach Dr Abhigyan Dutta in the address given below **on or before 23/02/2018, 5:00 pm.**

Sr #	Item and detailed minimum specification	Quantity
1.	<p><b>Horizontal Vacuum Tube Furnace with gas purging facility</b></p> <p>The chamber should made of Mild Steel Sheet finished with powder coated paint. The tube should be made of High Alumina Ceramic with minimum 65mm dia x 600mm L The tube should be covered by ceramic tube insulated by high temperature resistance Ceramic Blanket &amp; Brick Cell. The tube should be fitted with properly sealed Lid on both sides. <b>Heating System:</b> Should be provided by A-1 Kanthal wire. <b>Temperature Range:</b> Maximum working Temperature should be 800°C. The Heating Rate should be controlled by PID Programmer Controller with Digital Display with accuracy <math>\pm 1^\circ\text{C}</math>. <b>Gas Purging System:</b> Mild Steel Flanges for gas purging, bracket, hose connectors, gas nozzles for inlet &amp; outlet of gases should be included with the work tube for non-flammable protective gas(N<sub>2</sub>) application <b>Vacuum Pump:</b> Rotary High Vacuum Pump, Oil Sealed, Air Cooled, V-belt driven and mounted on base plate with belt guard should be provided with Magnetic Isolation cum Air Admittance valve. <b>Free Air Displacement:</b> 100 Ltrs./min. <b>Pressure Gauge:</b> For measuring vacuum</p>	01
2.	<p><b>Vertical pit furnace with sample holder</b></p> <p>Inner Chamber made of High Alumina Tube and outer body made of Stainless Steel. Muffle Pot to withstand high temperature. Stainless steel sample holder. The heating Elements should be fitted in the Muffle body to ensure quick and uniform temperature rising up to desired point, <b>Working Temperature:</b> 800°C <b>Temperature controller:</b> Should be PID programmable multi Segment Controller with versatile, high stability, temperature or process controller, K Type Thermocouple should be provided. Heating Element: A1 Kanthal wire</p>	01



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## TERMS AND CONDITIONS:

1. The envelope must be superscripted with “**Quotation for SERB sponsored Project**”.
2. Prices must be quoted in INR inclusive of applicable GST, delivery and installation charges, if any.
3. Full Technical specifications along with warranty terms must be accompanied with the copies of the Income Tax Acknowledgement Receipt for the latest Assessment year, P.T. Deposit Challan for latest year, Up to date clearance of Service Tax Registration (last receipt of Challan), Pan Card, GST Registration Certificate, Trade License (as applicable).
4. The University is not bound to accept the lowest rate and reserves the right to cancel any item/ quote or all the quotations without assigning any reasons thereof.

**Dr. Abhigyan Dutta**

PI, SERB Project

Department of Physics

University of Burdwan

Burdwan 713104, West Bengal, India.