

Appendix-I

Sr. No.	Name of the item with Specification	Qty.
1	<p>High temperature Electric Muffle Furnace Furnace (900°C) with computer interface</p> <ol style="list-style-type: none"> 1. Furnace Type: Horizontal (front mounted) Electric muffle furnace. 2. Maximum Temperature: 900°C. 3. Chamber size: 8" x 8" rectangular chamber with approximate 15-20" length, high quality ceramic wool board insulation, stainless steel external body with double walled construction. 4. Temperature measurement: K type thermocouple (one Steel and one ceramic). 5. Muffle should be easy to detach. 6. Working temperature: Continuous 6 hours maintain the temperature. 7. Outer body temperature should not exceed 60°C temperature. 8. 15 mm diameter hole at back (For inert gas supply) and 25 mm diameter hole at front with cover. 9. PID controller having Computer interface. 10. Temperature accuracy of atleast 1%. 11. Temperature vs time profile controller. 12. RS232/RS485 digital communication protocol with software. 13. 2 programs of 8 steps each. Profile should be programmed independent of each other; each profile should have parameters for linking. <p>Accessories</p> <ol style="list-style-type: none"> 1. Thermocouple qty: 4 Nos (Two steel and Two ceramic coated). 2. Extra muffle with wound heating element: 1 Nos. 	02 No.