

Annexure-V

Compliance report

Note: The bidder is required to mention detailed specifications clearly in column named as Specifications from Bidder against each item as mentioned in below format. Please note that merely mentioning Yes/No in deviation column will lead to disqualification of the bidder.

(I) Name of Instrument : High temperature Electric Muffle Furnace(1200°C)

Sr. No.	Specification of e-Tender	Specification of Bidder/Vendor	Deviation (Yes/No)	Remarks
	<p>1. Furnace Type: Vertical (Top Mounted) type Electric muffle furnace.</p> <p>2. Maximum Temperature: 1200°C.</p> <p>3. Chamber size: 8" x 8" rectangular chamber with approximate 20" length, high quality ceramic wool board insulation, stainless steel external body with double walled construction.</p> <p>4. Temperature measurement: K type thermocouple inserted from the top side inside the melt (one Steel and one ceramic coated).</p> <p>5. Muffle should be easy to detach.</p> <p>6. Working temperature: Continuous 6 hours maintain the temperature.</p> <p>7. Outer body temperature should not exceed 50°C temperature.</p> <p>8. 15 mm diameter hole at bottom (For inert gas supply) and 25 mm diameter hole at top.</p> <p>9. Dell computer with min. 4 GB RAM and 500GB hard drive.</p> <p><u>PID controller:</u></p> <p>1. Thyristor control with digital microprocessor based PID controller.</p> <p>2. Size: 96 mm x 96 mm.</p>			

	<p>3. Accuracy of atleast 1% and resolution of 0.1°C.</p> <p>4. Temperature vs time profile controller.</p> <p>5. RS232/RS485 digital communication protocol with software.</p> <p>6. 2 programs of 8 steps each. Profile should be programmed independent of each other; each profile should have parameters for linking.</p> <p>7. Other features to include deviation, hold, auto ramping & power down resume function.</p> <p>8. Display: 7 segment LED for process variable and SV; PV & SV Display, mode display 4 digital LED.</p> <p>9. Output: PID + Fuzzy logic feature selectable. One programmable alarm.</p> <p>10. It should be easy to connect with computer.</p> <p>Accessories</p> <p>1. Thermocouple qty: 10 Nos (Five steel and five ceramic coated).</p> <p>2. Extra muffle with wound heating element: 1 Nos.</p> <p>3. Warrantee: one year</p>			
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