

## 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
	<ol style="list-style-type: none"> <li>Furnace Type: <b>Vertical (Top Mounted)</b> type Electric muffle furnace.</li> <li>Maximum Temperature: <b>1200°C</b>.</li> <li>Chamber size: <b>8" x 8"</b> rectangular chamber with approximate <b>20" length</b>, high quality ceramic wool board insulation, <b>stainless steel</b> external body with double walled construction.</li> <li>Temperature measurement: <b>K type</b> thermocouple inserted from the top side inside the melt (one Steel and one ceramic coated).</li> <li>Muffle should be easy to detach.</li> <li>Working temperature: Continuous 6 hours maintain the temperature.</li> <li>Outer body temperature should not exceed 50°C temperature.</li> <li>15 mm diameter hole at bottom (For inert gas supply) and 25 mm diameter hole at top.</li> <li>Dell computer with min. 4 GB RAM and 500GB hard drive.</li> </ol> <p><u>PID controller:</u></p> <ol style="list-style-type: none"> <li><b>Thyristor</b> control with digital microprocessor based PID controller.</li> <li>Size: <b>96 mm x 96 mm</b>.</li> </ol>			

	<ol style="list-style-type: none"> <li>3. <b>Accuracy</b> of atleast 1% and resolution of 0.1°C.</li> <li>4. <b>Temperature vs time profile</b> controller.</li> <li>5. RS232/RS485 digital communication protocol with software.</li> <li>6. <b>2 programs</b> of 8 steps each. Profile should be programmed independent of each other; each profile should have parameters for linking.</li> <li>7. Other features to include deviation, hold, auto ramping &amp; power down resume function.</li> <li>8. Display: 7 segment LED for process variable and SV; PV &amp; SV Display, mode display 4 digital LED.</li> <li>9. Output: PID + Fuzzy logic feature selectable. One programmable alarm.</li> <li>10. It should be easy to connect with computer.</li> </ol> <p><b>Accessories</b></p> <ol style="list-style-type: none"> <li>1. Thermocouple qty: 10 Nos (Five steel and five ceramic coated).</li> <li>2. Extra muffle with wound heating element: 1 Nos.</li> <li>3. Warrantee: one year</li> </ol>			
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