

## 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 : CNC Vertical Machining Centre

Sr. No.	Specification of e-Tender	Specification of Bidder/Vendor	Deviation (Yes/No)	Remarks
<b>A</b>	<b>TABLE</b> <ol style="list-style-type: none"> <li>Table Size - 650-750mm X 300-400mm</li> <li>T slots of table - 3 x 14 x 110/125 mm</li> <li>Column surface to center of table (Min-Max) distance - 190-400mm</li> <li>Max. load capacity - 225-500 kg</li> <li>Height of table top from floor - 800-1100mm</li> </ol>			
<b>B</b>	<b>TRAVERSES</b> <ol style="list-style-type: none"> <li>X-Axis traverse - 400-550mm</li> <li>Y-Axis traverse - 300-450mm</li> <li>Z-Axis traverse - 250-550mm</li> </ol>			
<b>C</b>	<b>FEEDS (INFINITELY VARIABLE)</b> <ol style="list-style-type: none"> <li>Rapid feed rate X, Y &amp; Z axes - 15-25 m/minute</li> <li>Range of Cutting feed rate (Infinite) - 0-10 m/minute</li> </ol>			
<b>D</b>	<b>SPINDLE</b> <ol style="list-style-type: none"> <li>Spindle taper - BT40</li> <li>Spindle speed range (Infinite) - 0-4000/6000 RPM</li> <li>Spindle center to column front surface - 350-450mm</li> <li>Spindle nose to top of table (Min-Max)- 100-500mm</li> <li>Maximum torque at spindle (800-1200 RPM) - Greater than 40 Nm</li> </ol>			

<b>E</b>	<b>ACCURACY</b> <ol style="list-style-type: none"> <li>1. Positioning - 0.01 mm</li> <li>2. Repeatability - 0.005 mm</li> </ol>			
<b>F</b>	<b>ELECTRICAL</b> <ol style="list-style-type: none"> <li>1. Power Supply - 415 V<math>\pm</math> 10, 3 Phase, 50Hz</li> <li>2. Spindle motor - 7.5/5.5 kW</li> <li>3. Feed motors of X &amp; Y axis - 1-2 kw</li> <li>4. Feed motor Z axes - 1-2 kw</li> <li>5. Coolant pump - 0.1-0.3 kw</li> <li>6. Lubrication pump - 0.09-0.25 kw</li> <li>7. Power requirement - Specify your machine</li> </ol>			
<b>G</b>	<b>AUTOMATIC TOOL CHANGER (ARM TYPE)</b> <ol style="list-style-type: none"> <li>1. No. of tool - 6-8</li> <li>2. Max. tool diameter - 60-80mm</li> <li>3. Max. tool length - 150-200mm</li> <li>4. Type - Electromechanical, Bidirectional</li> </ol>			
<b>H</b>	<b>GENERAL</b> <ol style="list-style-type: none"> <li>1. Air pressure - 6-7 bar</li> <li>2. Overall size - Specify your machine</li> <li>3. Machine weight - Specify your machine</li> <li>4. Colour of machine - Powder coated Grey &amp; White</li> </ol>			
<b>I</b>	<b>CONTROLLER - Mitsubishi/ Fanuc/ Siemens/ Haas</b> <ol style="list-style-type: none"> <li>1. Technical details of controller - Specify your machine</li> <li>2. Main features of controller - Specify your machine</li> </ol>			
<b>J</b>	<b>STANDARD ACCESSORIES</b> <ol style="list-style-type: none"> <li>1. Automatic Lubrication system - Provide</li> <li>2. Cyclic Coolant system (Programmable) - Provide</li> </ol>			

	<ol style="list-style-type: none"> <li>3. Feedback system (Rotary) - Provide</li> <li>4. Working hour recording - Provide</li> <li>5. Electronics hand wheel for the X, Y and Z axis - Provide</li> <li>6. Process completion lamp (3 tier) - Provide</li> <li>7. Guideway protection through telescopic covers - Provide</li> <li>8. Machine Guard - Provide</li> <li>9. Sliding door with splash guard - Provide</li> <li>10. Sliding door interlock - Provide</li> <li>11. Machine lamp - Provide</li> <li>12. T Nuts for table (6 Nos) - Provide</li> <li>13. Spindle load meter - Provide</li> <li>14. Universal Machine Vice 8" (1 No) - Provide</li> <li>15. set of Operation &amp; Maintenance tools (1 Set) - Provide</li> <li>16. 3 Sets of operation and maintenance manual - Provide</li> </ol>			
<b>K</b>	<b>OPTIONAL ACCESSORIES</b> <ol style="list-style-type: none"> <li>1. Voltage stabilizer - 1 No</li> <li>2. Tooling <ol style="list-style-type: none"> <li>(a) Collect chuck holder Range 1-25mm - 1 No</li> <li>(b) Collet chuck holder Range 1-16mm - 1 No</li> <li>(c) Keyless drill chuck up to 16mm - 1 No</li> <li>(d) Shell end mill adaptor with carbide cutter - 1 No</li> <li>(e) End mill cutter 6mm x 25 mm flute length - 1 No</li> <li>(f) End mill cutter 10mm x 25 mm flute length - 1 No</li> <li>(g) End mill cutter 16mm - 1 No</li> <li>(h) Air compressor with drying unit - Provide</li> </ol> </li> </ol>			

<b>L</b>	<b>OTHER IMPORTANT REQUIRMENT</b> <ol style="list-style-type: none"> <li>1. Machine is to be Vibration proof during working condition.</li> <li>2. There should be provision to measure power at spindle during working and idle conditions.</li> <li>3. Machine parts and components should not be affected by application of cryogenic fluid as a coolant during machining processes.</li> <li>4. After detailed scrutiny of offers, Venders may be called at IITRAM for technical presentation, if required.</li> </ol>			
<b>M</b>	<b>SPECIAL FEATURES OF MACHINE (IF ANY)</b> <ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>			