

## Vendor Qualification Criteria (VQC) for Distribution Box KP 175-3C to Drg.No. KP175.3C.000CB

SI No.	Nomenclature & Drawing No	Manufacturing Technology & Testing /Inspection Facilities Required to produce The Item	Must be possessed by the vendor in his premises(List of Plant and Machinery and testing/inspection facility to be submitted)	May be possessed by the Vendor in his premises or may be out sourced) (Name and address of sub-contractor, list of Plant and Machinery and testing/inspection facility to be submitted)	Firm Compliance (Y/N)	Remarks
1	Distribution Box KP 175-3C & KP 175.3C.000CB	<p>Technology 1</p> <p>Electronic circuit components assy</p> <p>Technology 2</p> <p>Metal forming and machining technology</p> <p>Test/Inspection 1</p>	<p>Facility for:</p> <ol style="list-style-type: none"> <li>Temperature controlled soldering with hot air rework station (500deg C) with conformal nitro-cellulose coating after soldering</li> <li>Hardware Development tool, software development tool, PCB design software etc.</li> <li>Firm must have design team having experience to use development tools as per Defence standard.</li> </ol> <p>Facility of:</p> <ol style="list-style-type: none"> <li>Drilling (Any Machine to drill: 5mm)</li> </ol>	<p>Sources(Tie-up/MoU) for:</p> <ol style="list-style-type: none"> <li>Double Layer Printed Circuit Board</li> <li>Electromagnetic relays as per specification</li> <li>Transistors, resistors, Contactors, capacitors, diodes, wires as per specification</li> <li>Connectors as per TY(LCSO approved)</li> <li>SMD integrated microcircuits as per specification</li> <li>Rubber Gaskets</li> </ol> <p>Facility for:</p> <ol style="list-style-type: none"> <li>AI casting</li> <li>Electroplating(zinc chromating, hot tinning, phosphatizing, enamel coating)</li> <li>Fabrication/Forming of sheet metal</li> </ol>		
		<p>The vendor should have periodically calibrated instruments measuring:</p> <ol style="list-style-type: none"> <li>Measuring Instruments(Accuracy Class: 0.5 or better)                             <ol style="list-style-type: none"> <li>Digital Megger (insulation testing facility) 5V-50V-500V.</li> </ol> </li> <li>Stabilized DC Power Supply( 0-30V, 100A)</li> <li>Special testing Jig for sequence testing /Automatic Test Equipment for sequence testing</li> </ol>	<p>Facility for or Tie-up/MoU for testing of:</p> <ol style="list-style-type: none"> <li>Chemical composition of materials(impurities content) and Mechanical properties.</li> <li>Testing of Rubber Components as per specification                             <ul style="list-style-type: none"> <li>• Hardness</li> <li>• Rupture Strength and Elongation</li> <li>• Residual Elongation</li> <li>• Density</li> </ul> </li> </ol> <p>3.Environmental tests:</p> <ol style="list-style-type: none"> <li>Vibration resistance tests</li> <li>Impact Strength</li> <li>High temperature tests</li> <li>Relative humidity tests</li> <li>Low temperature tests</li> <li>Dust test.</li> <li>Mould growth test.</li> <li>Tropical exposure test.</li> </ol>			

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		<ul style="list-style-type: none"> <li>i. Rapid temperature cycling test.</li> <li>j. Testing at Different Voltages.</li> <li>k. Vibration Resonance.</li> <li>l. Resistance to FOG and Mist</li> <li>m. Sea FOG( Salt)</li> <li>n. Impact Resistance</li> <li>o. Vibration Strength</li> <li>p. Low Atmospheric Pressure</li> <li>q. GOT and SLT test facilities.</li> <li>r. Strength during transportation.</li> <li>s. Single Impact with high Acceleration..as per specifications.</li> </ul>			<ol style="list-style-type: none"> <li>1. Firm should give undertaking for developing Test Facility as Per TY specification and/or as per Test/Inspection-1</li> <li>2. If the firm is not having any particular facility mentioned in VQC and able to make the component with alternate methods, the details of methods has to be provided with proper justifications.</li> </ol>	Facility as per VQC and TY specification	Test/Inspection 2		