

Sl No.	Nomenclature & Drawing No.	Manufacturing Technology & Testing Inspection Facilities Required to produce The Item	Must 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	VENTILATION SYSTEM 172.8TSP-3	Technology 1 DC Motor and electromagnet assy	Facility for: 1. Temperature controlled soldering. 2. Precision assy of stator and rotor of DC motor	Sources for(Tie-up/Outsource/MoU): 1. Bearing, 2. Wedges and insulations 3. Carbon brush, 4. Spring, 5. Varnish, 6. Wires as per specification 7. Connectors(LCSO approved) Facility for: 1. Winding machine(dia: 100mm) 2. Winding of Stator (Concentric Coils) and Armature (Distributed Coils) with insulation and slot wedge. 3. Winding of concentric coils for electromagnet 4. Varnishing and heating in oven	
Technology 2	High speed blower assy	Technology 1 DC Motor and electromagnet assy	Facility for: 1. Precision assay table/surface table for rotor blades	Sources for(Tie-up/Outsource/MoU): 1. Springs 2. Gaskets and rubber items 3. Pressure gauge Facility for: 1. Laser cutting (sheet metal) or mechanical/servo press (100T) 2. Brazeing	
Technology 3	Metallic cover and branch pipes	Basic Metal Manufacturing	Facility for: 1. Gas shield welding/arc welding	Facility for: 1. Sand blasting 2. Sheet metal fabrication	
Technology 4	Metal Machining and Metal forming technologies	Basic Metal Machining Facility of 1. Turning(dia: 300mm or more)	Metal forming facility of 1. Steel and Aluminium Casting 2. Heat treatment(A annealing, hardening) facility, 3. Electroplating facility (Zinc Plating, Chromium plating,		

		Cadmium chromating, hot tinning, anodizing, phosphating, oxidizing, zinc chromatizing, chemical passivation)	
Test/Inspection	Electrical and Mechanical Testing	<p>The vendor should have periodically calibrated instruments measuring:</p> <ol style="list-style-type: none"> 1. Stabilised DC power sources, 0-32V DC, 100A 2. Measuring Instruments(Accuracy Class: 1.0 or better) <ol style="list-style-type: none"> a. Megger(insulation testing facility) 500V b. High Voltage Breakdown Test kit 0-1kV, c. Spring balance/force measurement equipment(using weights) (50kgf) for electromagnet effort measurement <p>Test facility for:</p> <ol style="list-style-type: none"> 1. Dynamic balancing of rotor(10000 RPM) 2. Welding leak testing using air/kerosene(for cover)(pressure 0.05mpa) 3. Pressure gauge testing (10bar) 	<p>Facility for or Tie-up/Mot for testing of:</p> <ol style="list-style-type: none"> 1. Material chemical composition(Impurities content) 2. Rubber Components <ul style="list-style-type: none"> • Hardness • Rupture Strength and elongation after rupture. • Density 3. Testing of Mechanical Properties e.g. <ul style="list-style-type: none"> • Tensile strength. • Hardness • elongation. • yield strength. • impact strength. • cupping test. • bend test, • compression and load test (for springs) 4. Testing of electrical properties e.g. <ul style="list-style-type: none"> • dielectric strength, • dissipation factor, • volume resistivity, • surface resistivity 5. Environmental test: <ol style="list-style-type: none"> a. Vibration resistance tests b. Impact loading test c. High temperature tests d. Relative humidity tests e. Low temperature tests f. Dust test, mould growth test, tropical exposure test, rapid temperature cycling test as per specifications.

Test Inspection	Facility as per VQC and TY specification	<p>1. Firm should give undertaking for developing Test Facility as Per TY specification and/or as per Test/Inspection-1 after getting Supply Order.</p> <p>2. If the firm is not having any particular facility mentioned in <u>VQC</u> and able to make the component with alternate methods, the <u>details</u> of methods has to be <u>provided with proper justifications.</u></p>
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