Annexure 1

TECHNICAL SPECIFICATIONS

Introduction: -

A custom designed K1 cable is the interface device between two different systems. Function of this cable is to provide power and data lines from source to the destination. K1 cable are meant for linking the electric circuit of on-board system and sub-assemblies of control systems.

Scope: -

To indigenise the cable assembly by taking into consideration all design drawing, technical specification, parameters and then subjecting the cable assembly to acceptance & qualification testing / environmental testing. Serial production of the cable assembly will be undertaken after successful qualification testing/environmental testing.

Functional Description: - K1 Cable assembly

The cable is the interfacing device between two different systems. Function of the cable is to provide power and data lines from source to destination.

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Sl. No.	Parameters	Specification			
1	**Configuration of connector in K1 Cable** (a) X1 120 pin socket connector-02 Nos.	Total Mass 28.5±10%			
2	**Electrical insulation resistance at 100V** (a) In normal climatic conditions. (b) At Air temperature 55°C and relative humidity 80%. (c) At relative humidity 98% at 40°C.	 >20 M Ohm >5 M Ohm >1 M Ohm			
3	**Electrical insulation strength** (a) In normal climatic conditions.	>500 V			
4	**Environmental Test Specification**: - Cable must operate reliably.				
4.1	(a) In normal climatic condition.	(20±5)°C; relative humidity 98±3%			
4.2	At relative humidity of air	98% at ambient temp. 40°C			
4.3	After the action of fungus				
5	Cable of all groups must be biologically stable to rodents & insects				
6	Efficiency during transportation	Peak shock acceleration, m/s^2	Pulse duration, milli-sec.	Number of shocks per minute	Number of shocks
		63.76	6 to 15	40 to 80	10,000
7	The connectors, joints, protective materials, lengths and markings must correspond to the requirements of assembly drawings for cables. The purchased items and other materials of cables must correspond to the requirements of existing technical specifications, normative, industrial or state standards for them.				
8	Electrical joints of cables, cross sections and grades of wires and positional designations of connectors, joints and lugs must correspond to schematic electrical circuit diagrams.				

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