National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHIEF QUALITY ASSURANCE ESTABLISHMENT (WARSHIP EQUIPMENT), CQAE(WE), JALAHALLI CAMP ROAD, YESHWANTPUR POST, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7418 **Page No** 1 of 4

Validity 03/09/2022 to 02/09/2024 **Last Amended on** 26/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	Rapid Temperature cycling/Thermal shock	JSS 50101 (Rev 01, Test no. 20)
2	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	Bump Test	JSS 50101 (Test no. 11)
3	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	Damp Heat	JSS 50101 (Rev 01, Test no. 7)
4	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	High Temperature	JSS 50101 (Rev 01, Test no. 22)
5	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	Low Temperature	JSS 50101 (Rev 1, Test no. 21)
6	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical components	Sinusoidal Vibration Test	JSS 50101 (Rev 1, Test no. 23)
7	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment	Ingress Protection 1X	IEC/ISO 60529
8	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment	Ingress Protection 2X	IEC/ISO 60529
9	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment	Ingress Protection 3X	IEC/ISO 60529
10	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment	Ingress Protection 4X	IEC/ISO 60529
11	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Bump Test	IS 9000 (Part 7)
12	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Bump Test	JSS 55555 (Rev 3, Test no. 5)
13	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Change of Temperarure	IS 9000 (Part 14)

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14	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Contamination Test	JSS 55555 (Rev 3 Test no. 6)
15	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Damp Heat	IEC 60068 2-78
16	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Damp Heat	IS 9000 (Part 4)
17	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Damp Heat	JSS 55555 (Rev 3, Test no. 10)
18	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Driving Rain Test	JSS 55555 (Rev 3, Test no. 12)
19	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	High Temperature	IS 9000 (Part 3)
20	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	High Temperature	JSS 55555 (Rev 03, Test no. 17)
21	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	High Temperature	MIL STD 810 F (Method 501.4)
22	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	High Temperature	MIL STD 810 H (Method 501.7)
23	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	High Temperature (Dry Heat)	IEC 60068 2-2
24	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Immersion Test	JSS 55555 (Rev 3, Test no. 19)
25	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Ingress Protection (Dust Test) IP5X, IP6X	IEC/IS 60529
26	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Low Temperature	IEC 60068-2-1
27	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Low Temperature	IS 9000 (Part 2)

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28	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Low Temperature	JSS55555 (Rev 3, Test no. 20)
29	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Low Temperature	MIL STD 810 H (Method 502.7)
30	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Low Temperature	MIL STD 810F, Method 502.4
31	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Mould Growth Test	JSS 55555 (Rev 3, Test no. 21)
32	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random On Random	MIL STD 810 F (Method 514.5)
33	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random On Random	MIL STD 810 H (Method 514.8)
34	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random Vibration Test	JSS 55555 (Rev 3, Test no. 28)
35	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random Vibration Test	MIL STD 810 F (Method 514.5)
36	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random Vibration Test	MIL STD 810 H (Method 514.8)
37	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Random Vibration Test (ESS)	DQAN/SG /1001/ ESS dated 30 May 2022 (Ref Standard: (a) JSG 0613:2010 (b) MIL HDBK 344A (c) MIL-HDBK2164A)
38	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Rapid Temperature cycling/Thermal Shock	JSS 55555 (Rev 3, Test no. 22)
39	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Salt Corrosion Test	JSS 55555 (Rev 3, Test no. 9)
40	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sand Dust Test	JSS 55555 (Rev 3, Test no. 14)

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41	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sine On Random	MIL STD 810 F (Method 514.5)
42	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sine On Random	MIL STD 810 H (Method 514.8)
43	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sine Vibration Test	JSS 55555 (Rev 3, Test no. 28)
44	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sinusoidal Vibration Test	IS 9000 (Part 8)
45	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sinusoidal Vibration Test	MIL STD 810 F (Method 514.5)
46	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Sinusoidal Vibration Test	MIL STD 810 H (Method 514.8)
47	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Thermal Cycling Test (ESS)	DQAN/SG /1001/ ESS dated 30 May 2022 (Ref Standard: (a) JSG 0613:2010 (b) MIL HDBK 344A (c) MIL-HDBK2164A)
48	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical/Electronics / Electro Mechanical Sub assembly, units, Systems, Equipment and components	Tropical Exposure	JSS 55555 (Rev 3, Test no. 27)