National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ENVIRONMENTAL TEST DEPARTMENT,QUALITY ASSURANCE DIVISION, BHARAT ELECTRONICS LIMITED, BLOCK B,C E,F & G, JALAHALLI POST, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5479
Validity	12/09/2021 to 11/09/2023

Last Amended on -

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	Electronic Product/s, PCBs /Modules / Sub systems / Systems	Sand and Dust Test	MIL 810G: 31 OCT:2008, METHOD 510.6-i-510.6-14, PROCEDURE -I & II
2	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	ALTITUDE	TEST NO. 3, JSS 55555:2012, (REV NO.3)
3	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	HUMIDITY	TEST METHOD 507.6-i to 507.6A-2, MIL STD 810G: 31 OCT 2008
4	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	AIR PRESSURE (LOW)	TEST NO. 2, JSS 50101:1996, (REV NO. 1)
5	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	BUMP	TEST NO. 5, JSS 55555:2012, (REV NO.3)
6	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	CORROSION (SALT/SALT FOG)	TEST NO. 9, JSS 55555:2012, (REV NO.3)
7	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	CORROSIVE ATMOSPHERE (SALT MIST)	TEST NO. 4, JSS 50101:1996, (REV NO. 1)
8	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	DAMP HEAT (CYCLIC)	TEST NO. 5, JSS 50101:1996, (REV NO. 1)
9	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	DAMP HEAT (MOISTURE RESISTANCE)	TEST NO. 6, JSS 50101:1996, (REV NO.1)
10	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	DAMP HEAT (STEADY STATE)	TEST NO. 7, JSS 50101:1996, (REV NO. 1)
11	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	HIGH TEMPERATURE	TEST NO. 17, JSS 55555:2012, (REV NO.3)
12	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	HIGHLY ACCELERATED LIFE TEST (HALT)	SOP NO. QP 1413, ISSUE NO. 3, ISSUE DATE 06.12.2018 SECTION 15
13	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	HIGHLY ACCELERATED STRESS SCREENING (HASS)	SOP NO. QP 1413, ISSUE NO. 3, ISSUE DATE 06.12.2018, SECTION 16

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENTAL TEST DEPARTMENT,QUALITY ASSURANCE DIVISION, BHARAT ELECTRONICS LIMITED, BLOCK B,C E,F & G, JALAHALLI POST, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5479 **Page No** 2 of 4

Validity 12/09/2021 to 11/09/2023 **Last Amended on** -

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
14	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	PREBAKING	Test Method '7.4.4.1' & '7.4.4.2' BEL CORPORATE STANDARD PS 520 ISSUE: 10, Dated: 27.06.2016
15	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	RANDOM VIBRATION STRESS SCREENING	DQA (N) GUIDELINES NO. 66301/POLICY-07/DQA (N) / QA-07, dated: 09.08.2016
16	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	RANDOM VIBRATION STRESS SCREENING	DQA (N) GUIDELINES NO. 66301/POLICY-07/DQA (N) / QA-07, dated: 14.06.2013
17	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	RANDOM VIBRATION	Test Method 'F' BEL CORPORATE STANDARD PS 955 ISSUE: 07, Dated: 24.09.2020
18	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	SALT SPRAY TESTING	Test Method: '1' to'14.2' BEL CORPORATE STANDARD QS 9030 ISSUE:05, Dated: 06.07.2013
19	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	THERMAL CYCLING STRESS SCREENING	DQA (N) GUIDELINES NO. 66301/POLICY-07/DQA (N) / QA-07, dated: 09.08.2016
20	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	THERMAL CYCLING STRESS SCREENING	DQA (N) GUIDELINES NO. 66301/POLICY-07/DQA (N) / QA-07, dated: 14.06.2013
21	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	THERMAL CYCLING	Test Method 'C' BEL CORPORATE STANDARD PS 955 ISSUE: 07, Dated: 24.09.2020
22	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	THERMAL SHOCK	Test Method 'A,A1' BEL CORPORATE STANDARD PS 955 ISSUE: 07, Dated: 24.09.2020
23	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	THERMAL SHOCK	Test Method 'B,B1' BEL CORPORATE STANDARD PS 955 ISSUE: 07, Dated: 24.09.2020
24	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	VIBRATION (RANDOM)	TEST NO. 24, JSS 50101:1996, (REV NO. 1)
25	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	VIBRATION (SINUSOIDAL SWEEP)	Test Method 'E' BEL CORPORATE STANDARD PS 955 ISSUE: 07, Dated: 24.09.2020
26	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	VIBRATION	TEST METHOD 514.7-I to 514.7F-F2, MIL STD 810G: 31 OCT:2008,

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ENVIRONMENTAL TEST DEPARTMENT,QUALITY ASSURANCE DIVISION, BHARAT ELECTRONICS LIMITED, BLOCK B,C E,F & G, JALAHALLI POST, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5479	**Page No**	3 of 4
Validity	12/09/2021 to 11/09/2023	**Last Amended on**	-

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
27	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	VIBRATION	TEST NO. 23, JSS 50101:1996, (REV NO. 1)
28	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	VIBRATION	TEST NO. 28, JSS 55555:2012, (REV NO.3)
29	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	DROP	TEST NO. 13, JSS 55555:2012, (REV NO.3)
30	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	LOW PRESSURE (ALTITUDE)	TEST METHOD 500.6-i to 500.6-8, MIL STD 810G: 31 OCT:2008
31	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	SHOCK OR IMPACT	TEST NO. 24, JSS 55555:2012, (REV NO.3)
32	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE (COLD)	TEST NO. 21, JSS 50101:1996, (REV NO. 1)
33	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE (DRY HEAT)	TEST NO. 22, JSS 50101:1996, (REV NO. 1)
34	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE SHOCK	TEST METHOD: 503.6-i to 503.6-14, MIL STD 810G: 31 OCT:2008, Two Chamber Method & Single Chamber Method
35	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE, HUMIDITY, VIBRATION, ALTITUDE	TEST NO. 30, JSS 55555:2012, (REV NO.3)
36	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE, HUMIDITY, VIBRATION, AND ALTITUDE	TEST METHOD: 520.4-i to 520.4-24, MIL STD 810G: 31 OCT:2008
37	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi products of Electronic product/s, PCBs/Modules/Sub systems/Systems (For Defense and Civilian application)	THERMAL CYCLING	TEST METHOD 'D' BEL CORPORATE STANDARD PS 955 ISSUE :07,DATED:24.09.2020
38	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Multi Products of Electronic Product/s,PCBs/Modules/Sub systems/Systems (For Defense and Civilian application)	TROPICAL EXPOSURE	JSS 55555 :2012 (REV NO. 3),TEST NO. 27
39	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	DAMP HEAT	TEST NO. 10, JSS 55555:2012, (REV NO.3)

SCOPE OF ACCREDITATION

Laboratory Name :	ENVIRONMENTAL TEST DEPARTMENT,QUALITY ASSURANCE DIVISION, BHARAT ELECTRONICS LIMITED, BLOCK B,C E,F & G, JALAHALLI POST, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5479	**Page No**	4 of 4
Validity	12/09/2021 to 11/09/2023	**Last Amended on**	-

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
40	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	HIGH TEMPERATURE	TEST METHOD: 501.6-i to 501.6-14, MIL STD 810G: 31 OCT 2008,
41	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	IMPACT (BUMP)	TEST NO. 11, JSS 50101:1996, (REV NO. 1)
42	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	IMPACT (SHOCK)	TEST NO. 12, JSS 50101:1996, (REV NO. 1)
43	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	LOW TEMPERATURE	TEST METHOD: 502.6-i to 502.6-10, MIL 810G: 31 OCT 2008,
44	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	LOW TEMPERATURE	TEST NO. 20, JSS 55555:2012, (REV NO.3)
45	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	RAPID TEMPERATURE CYCLING (THERMAL SHOCK)	TEST NO. 22, JSS 55555:2012, (REV NO.3) Two Chamber Method & Single Chamber Method
46	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	SALT FOG	TEST METHOD 509.6-i to 509.6-10, MIL STD 810G: 31 OCT:2008
47	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	SHOCK	TEST METHOD 516.7-i to 516.7D-8, MIL STD 810G: 31 OCT:2008
48	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Products of Electronic Product/s, PCBs /Modules / Sub systems / Systems (For Defence and Civilian application)	TEMPERATURE CYCLING	TEST NO. 20, JSS 50101:1996, (REV NO. 1) Two Chamber Method & Single Chamber Method