



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	NIIRT - CENTRE FOR CALIBRATION, ANALYSIS AND TESTING, PLOT NO. 306, INDUSTRIAL AREA, PHASE 1, PANCHKULA, HARYANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9344	<b>Page No</b>	1 of 20
<b>Validity</b>	23/03/2021 to 22/03/2023	<b>Last Amended on</b>	08/04/2021

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Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level Monitoring	Leq, Lmax, Lmin upto 24 hours (Day and Night)	IS 9989
2	CHEMICAL- ATMOSPHERIC POLLUTION	Battery Charger	Noise Level Test	IS 4758 /EDTS 163 (Rev C) Cl. 5.7
3	CHEMICAL- ATMOSPHERIC POLLUTION	Distribution Transformer	Acoustic Noise Level	IS 4758/ RDSO/PE/SPEC/AC/0080 (Rev 1) Cl. 8.9
4	CHEMICAL- ATMOSPHERIC POLLUTION	Illumination Monitoring	Luminance	IS 3646 (Part 1)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Illumination Monitoring	Luminance	IS 6665
6	CHEMICAL- ATMOSPHERIC POLLUTION	LED based Luminaire	Lux measurement	IS 3646 p-1/RDSO/PE/SPEC/TL/0091 (Rev 1) Cl. 8.0
7	CHEMICAL- ATMOSPHERIC POLLUTION	Noise (AC Generator sets)	Noise measurement	IS/ISO 8528-10
8	CHEMICAL- ATMOSPHERIC POLLUTION	Noise (DG sets, Boiler, Compressor etc)	Source Noise	IS 4758 Cl.4.1.1(d)
9	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronics / IT / Telecommunication Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT) / Burst immunity Test	IEC 60571 (CI 12.2.8)
10	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronics / IT / Telecommunication Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT) / Burst immunity Test	IEC 61000-4-4
11	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronics / IT / Telecommunication Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT) / Burst immunity Test	IS 13779 (CI 12.9.4)
12	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronics / IT / Telecommunication Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT) / Burst immunity Test	IS 14697 (CI 12.8.4)
13	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronics / IT / Telecommunication Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT) / Burst immunity Test	IS 14700 (Part 4/Sec 4)
14	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock Test (Half Sine)	IEC 60068-2-27
15	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Bump Test (Half Sine)	IS 9000 Part 7 (Sec 2)
16	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Burn-in Test (Temperature cyclic)	ERLS/SPEC/ SI/0015 Cl 7.7



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17	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Temperature Cycling)	Test Nb IEC 60068-2-14 Cl 8
18	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Temperature Cycling)	Test Nb IS 9000 Part 14 (Sec 2)
19	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Temperature Cycling)	Test Nc IEC 60068-2-14 Cl 9
20	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Na IEC 60068-2-14 Cl 7
21	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Na IS 9000 Part 14 (Sec 1)
22	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Nc IS 9000 Part 14 (Sec 3)
23	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature/ Rapid Temperature Cyclic	Test no. 4 QM 333
24	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature/ Rapid Temperature Cycling / Thermal Shock	Test no. 22 JSS 55555
25	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Change of Temperature/ Temperature cycling	Test no. 20 JSS 50101 Rev 1
26	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	IEC 60571 Cl. 12.2.4
27	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'a' IS 9000 Part 2 (Sec 2)
28	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'b' IS 9000 Part 2 (Sec 3)
29	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'd' IS 9000 Part 2 (Sec 4)
30	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ab IEC 60068-2-1 (Cl. 5.2)



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31	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ad IEC 60068-2-1 (Cl. 5.3)
32	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ae IEC 60068-2-1 (Cl. 5.4)
33	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 1 QM 333
34	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 20 JSS 55555 Rev 3
35	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 21 JSS 50101 Rev 1
36	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Composite Temperature Humidity Cyclic Test / Damp Heat (Moisture Resistance)	Test no. 6 JSS 50101 Rev 1
37	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Composite Temperature/ Humidity Cyclic Test	IS 9000 (Part 6)
38	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Composite Temperature/ Humidity Cyclic Test	Test Z/Ad IEC 60068-2-30
39	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat	Test no. 10 JSS 55555 Rev 3
40	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat (Steady State)	IEC 60068-2-78
41	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat (Steady State)	IS 9000 Part 4
42	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat (Steady State)	Test no. 5 QM 333
43	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat (Steady State)	Test no. 7 JSS 50101 Rev 1
44	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic	IEC 60571 Cl 12.2.6



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45	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic	IS 9000 (Part 5 / Sec 1)
46	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic	IS 9000 (Part 5 / Sec 2)
47	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic	Test Db IEC 60068-2-30
48	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic	Test no. 5 JSS 50101 Rev 1
49	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic / Tropical Exposure	Test no. 27 JSS 55555 Rev 3
50	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Damp Heat Cyclic / Tropical Exposure	Test no. 3 QM 333
51	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Drop and Topple	IEC 60068-2-31 Cl 5.1
52	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Drop and Topple	IS 9000 (Part 7/Sec 3) Cl 5.1
53	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Drop and Topple	IS 9000 Part 7 (Sec 3)
54	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Drop Test	Test no. 10 QM 333
55	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Drop Test	Test no. 13 JSS 55555 Rev 3
56	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	IEC 60571 Cl 12.2.5
57	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'a' IS 9000 Part 3 (Sec 2)
58	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'b' IS 9000 Part 3 (Sec 3)



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59	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'c' IS 9000 Part 3 (Sec 4)
60	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'd' IS 9000 Part 3 (Sec 5)
61	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Bb IEC 60068-2-2 Cl 5.2
62	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Bd IEC 60068-2-2 Cl 5.3
63	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Be IEC 60068-2-2 Cl 5.4
64	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 17 JSS 55555
65	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 2 QM 333
66	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 22 JSS 50101 Rev 1
67	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Fall Test	Test no. 12 QM 333
68	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Free Fall	IEC 60068-2-31 Cl 5.2
69	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Free fall	IS 9000 (Part 7/Sec 3) Cl 5.2
70	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Free Fall	IS 9000 Part 7 (Sec 4)
71	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Functional random vibration test (3 Hz to 15 kHz)	IEC 61373 Cl. 8
72	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Hammer Test	IEC 60068-2-75



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73	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Hammer Test	IS 9000 Part 7 (Sec 7)
74	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Random Drop Test	Test no. 11A JSS 50101 Rev 1
75	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	IEC 60571 Cl 12.2.11
76	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	IS 9000 (Part 11)
77	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	Test Ka: IEC 60068-2-11
78	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	Test No 4 JSS 50101 Rev 1
79	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	Test No 9 JSS 55555 Rev 3
80	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Salt Mist Test	Test No 9 QM 333
81	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock and Bump test	IEC 60571 Cl 12.2.12
82	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock test	IEC 61373 Cl 10 (Category 1 & 2)
83	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock Test (Half Sine)	IS 9000 (Part 7/Sec 1)
84	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock Test (Half sine)	IS 9000 Part 7 (Sec 1)
85	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock Test (Half sine)	Test no. 12 JSS 50101 Rev 1
86	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Shock Test (Half sine)	Test no. 24 JSS 55555 Rev 3



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87	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Simulated long-life testing at increased random vibration levels (3 Hz to 15 kHz)	IEC 61373 Cl. 9
88	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Topple Test	Test no. 11 QM 333
89	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Topple Test	Test no. 26 JSS 55555 Rev 3
90	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test	IEC 60571 Cl. 12.2.12
91	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Mixed Mode)	Test Fi IEC 60068-2-80
92	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Random)	Test Fh IEC 60068-2-64
93	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Random)	Test No 24 JSS 50101 Rev 1
94	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Random)	Test No 28 JSS 55555 Rev 3
95	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	IS 9000 (Part 8)
96	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	IS 9001 (Part 13)
97	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test Fc IEC 60068-2-6
98	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 23 JSS 50101 Rev 1
99	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 28 JSS 55555 Rev 3
100	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 6 QM 333



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101	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60529 Cl. 12
102	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60947-1 Annex C
103	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts, indicated by additional letter A,B,C,D : IPXXA, IPXXB, IPXXC, IPXXD	IS/IEC 60529 Cl. 15
104	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts, indicated by additional letter A,B,C,D : IPXXA, IPXXB, IPXXC, IPXXD	IS/IEC 60947-1 Annex C
105	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against Dust, indicated by first characteristic numerals 5 & 6, IP 5X (Dust Protected), IP 6X (Dust Tight)	IS/IEC 60529 Cl. 13
106	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against Dust, indicated by first characteristic numerals 5 & 6, IP 5X (Dust Protected), IP 6X (Dust Tight)	IS/IEC 60947-1 Annex C
107	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60034-5 Cl. 5 & 9
108	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60529 Cl. 14





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109	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60947-1 Annex C
110	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against solid foreign objects, Indicated by first characteristic numeral 1 to 4, IP1X, IP2X, IP3X, IP4X	IS/IEC 60529 Cl. 13
111	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against solid foreign objects, Indicated by first characteristic numeral 1 to 4, IP1X, IP2X, IP3X, IP4X	IS/IEC 60947-1 Annex C
112	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60034-5 Cl. 5 & 9
113	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60529 Cl. 14
114	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60947-1 Annex C
115	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60034-5 Cl. 5 & 9
116	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60529 Cl. 14
117	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60947-1 Annex C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

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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
118	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Degree of Protection indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60034-5 Cl. 4 & 8
119	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Water Immersion Test	Test no. 19 JSS 55555 Rev 3
120	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Water Immersion Test	Test no. 8 QM 333
121	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Enclosures of Electrical items / equipment / components / assemblies / products	Watertightness test	IEC 60571 Cl. 12.2.13
122	ELECTRICAL- SAFETY TESTING FACILITY	Electronic equipment used on rolling stock and similar Electrical and Electronic items / equipment / assemblies / products	Insulation test	IEC 60571 Cl. 12.2.10
123	ELECTRICAL- SAFETY TESTING FACILITY	Enclosures of Electrical and Electronic items / equipment / assemblies / products / appliances / Automatic Litter bins, ash trays and refuse containers	Verification of metal container/ enclosure material	EN 45545-4 Cl. 4.2.5
124	ELECTRICAL- SAFETY TESTING FACILITY	Household and Similar Electrical Appliances / assemblies / products	Power input and current	IS 302-1 Cl. 10
125	ELECTRICAL- SAFETY TESTING FACILITY	Lamp Controlgear Components / Similar Electrical and Electronic devices / items / equipment	Electric Strength	IS 15885 (Part 1) Cl. 12
126	ELECTRICAL- SAFETY TESTING FACILITY	Lamp Controlgear Components / Similar Electrical and Electronic devices / items / equipment	Marking	IS 15885 (Part 1) Cl. 7
127	ELECTRICAL- SAFETY TESTING FACILITY	Lamp Controlgear Components / Similar Electrical and Electronic devices / items / equipment	Moisture Resistance and Insulation	IS 15885-1 Cl. 11
128	ELECTRICAL- SAFETY TESTING FACILITY	Lamp Controlgear Components / Similar Electrical and Electronic devices / items / equipment	Protection Against Accidental Contact with Live Parts	IS 15885-1 Cl. 10
129	ELECTRICAL- SAFETY TESTING FACILITY	Lamp Controlgear Components / Similar Electrical and Electronic devices / items / equipment	Provisions for Protective Earthing	IS 15885-1 Cl. 9
130	ELECTRICAL- SAFETY TESTING FACILITY	Products like Electrical and Electronic items / equipment / assemblies	High Voltage Test / Dielectric Test	IS 2071 (Part 1)
131	ELECTRICAL- SAFETY TESTING FACILITY	Products like Electrical and Electronic items / equipment / assemblies	Verification/ measurement of mass/ weight	STP-03.EET
132	ELECTRICAL- SAFETY TESTING FACILITY	Solid Insulating materials of Electrical and Electronic items / equipment / assemblies	Insulation Resistance Test	IS 2259
133	ELECTRICAL- SAFETY TESTING FACILITY	Wheel Set Earthing Equipment - Earthing Brush Assembly	Milli Volt (mV) Drop Test	EDTS 101 Rev 'C' Cl. 8.5.2



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134	ELECTRICAL- SAFETY TESTING FACILITY	Wheel Set Earthing Equipment - Earthing Resistor	Continuous Current	EDTS 101 Rev 'C' Cl. 8.4
135	ELECTRICAL- SAFETY TESTING FACILITY	Wheel Set Earthing Equipment - Earthing Resistor	Maximum Current	EDTS 101 Rev 'C' Cl. 8.4
136	ELECTRICAL- SAFETY TESTING FACILITY	Wheel Set Earthing Equipment - Earthing Resistor	Measurement of Resistance	EDTS 101 Rev 'C' Cl. 8.4
137	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Bump Test (Half Sine)	IS 9000 Part 7 (Sec 2)
138	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Burn-in Test (Temperature cyclic)	ERLS/SPEC/ SI/0015 Cl 7.7
139	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Temperature Cycling)	Test Nb IEC 60068-2-14 Cl 8
140	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Temperature Cycling)	Test Nb IS 9000 Part 14 (Sec 2)
141	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Nc IEC 60068-2-14 Cl 9
142	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature/ Rapid Temperature Cyclic	Test no. 4 QM 333
143	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature/ Rapid Temperature Cycling / Thermal Shock	Test no. 22 JSS 55555
144	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature/ Temperature cycling	Test no. 20 JSS 50101 Rev 1
145	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	IEC 60571 Cl. 12.2.4
146	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'a' IS 9000 Part 2 (Sec 2)
147	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'b' IS 9000 Part 2 (Sec 3)



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148	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test 'd' IS 9000 Part 2 (Sec 4)
149	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ab IEC 60068-2-1 (Cl. 5.2)
150	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ad IEC 60068-2-1 (Cl. 5.3)
151	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test Ae IEC 60068-2-1 (Cl. 5.4)
152	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 1 QM 333
153	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 20 JSS 55555 Rev 3
154	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Cold Test (Low temperature)	Test no. 21 JSS 50101 Rev 1
155	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Composite Temperature Humidity Cyclic Test / Damp Heat (Moisture Resistance)	Test no. 6 JSS 50101 Rev 1
156	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Composite Temperature/ Humidity Cyclic Test	IS 9000 (Part 6)
157	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat (Steady State)	IEC 60068-2-78
158	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat (Steady State)	IS 9000 Part 4
159	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat (Steady State)	Test no. 5 QM 333
160	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat (Steady State)	Test no. 7 JSS 50101 Rev 1
161	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic / Tropical Exposure	Test no. 27 JSS 55555 Rev 3



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162	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic / Tropical Exposure	Test no. 3 QM 333
163	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic	IEC 60571 Cl 12.2.6
164	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic	IS 9000 (Part 5 / Sec 1)
165	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic	IS 9000 (Part 5 / Sec 2)
166	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic	Test Db IEC 60068-2-30
167	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat Cyclic	Test no. 5 JSS 50101 Rev 1
168	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Damp Heat	Test no. 10 JSS 55555 Rev 3
169	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Drop and Topple	IEC 60068-2-31 Cl 5.1
170	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Drop and Topple	IS 9000 (Part 7/Sec 3) Cl 5.1
171	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Drop and Topple	IS 9000 Part 7 (Sec 3)
172	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Drop Test	Test no. 13 JSS 55555 Rev 3
173	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	IEC 60571 Cl 12.2.5
174	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'a' IS 9000 Part 3 (Sec 2)
175	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'b' IS 9000 Part 3 (Sec 3)



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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
176	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'c' IS 9000 Part 3 (Sec 4)
177	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test 'd' IS 9000 Part 3 (Sec 5)
178	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Bb IEC 60068-2-2 Cl 5.2
179	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Bd IEC 60068-2-2 Cl 5.3
180	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test Be IEC 60068-2-2 Cl 5.4
181	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 17 JSS 55555
182	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 2 QM 333
183	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Dry Heat (High Temperature)	Test no. 22 JSS 50101 Rev 1
184	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Fall Test	Test no. 12 QM 333
185	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Free Fall	IEC 60068-2-31 Cl 5.2
186	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Free fall	IS 9000 (Part 7/Sec 3) Cl 5.2
187	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Free Fall	IS 9000 Part 7 (Sec 4)
188	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Functional random vibration test	IEC 61373 Cl. 8 (3Hz to 15 kHz)
189	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Hammer Test	IEC 60068-2-75



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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
190	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Hammer Test	IS 9000 Part 7 (Sec 7)
191	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Random Drop Test	Test no. 11A JSS 50101 Rev 1
192	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	IEC 60571 CI 12.2.11
193	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	IS 9000 (Part 11)
194	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	Test Ka: IEC 60068-2-11
195	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	Test No 4 JSS 50101 Rev 1
196	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	Test No 9 JSS 55555 Rev 3
197	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Salt Mist Test	Test No 9 QM 333
198	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock and Bump test	IEC 60571 CI 12.2.12
199	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock Test (Half Sine)	IEC 60068-2-27
200	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock Test (Half Sine)	IS 9000 (Part 7/Sec 1)
201	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock Test (Half sine)	IS 9000 Part 7 (Sec 1)
202	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock Test (Half sine)	Test no. 12 JSS 50101 Rev 1
203	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock Test (Half sine)	Test no. 24 JSS 55555 Rev 3



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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
204	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Shock test	IEC 61373 Cl 10 (Category 1 & 2)
205	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Simulated long-life testing at increased random vibration levels	IEC 61373 Cl. 9 (3Hz to 15 kHz)
206	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Topple Test	Test no. 11 QM 333
207	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Topple Test	Test no. 26 JSS 55555 Rev 3
208	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Mixed Mode)	Test Fi IEC 60068-2-80
209	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Random)	Test Fh IEC 60068-2-64
210	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Random)	Test No 24 JSS 50101 Rev 1
211	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Random)	Test No 28 JSS 55555 Rev 3
212	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	IS 9000 (Part 8)
213	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	IS 9001 (Part 13)
214	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test Fc IEC 60068-2-6
215	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 23 JSS 50101 Rev 1
216	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 28 JSS 55555 Rev 3
217	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test (Sinusoidal)	Test No 6 QM 333





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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
218	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Vibration Test	IEC 60571 Cl. 12.2.12
219	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Na IEC 60068-2-14 Cl 7
220	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Na IS 9000 Part 14 (Sec 1)
221	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Change of Temperature (Thermal Shock)	Test Nc IS 9000 Part 14 (Sec 3)
222	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Composite Temperature/ Humidity Cyclic Test	Test Z/Ad IEC 60068-2-38
223	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic items / equipment / components / assemblies / products	Drop Test	Test no. 10 QM 333
224	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60529 Cl. 12
225	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60947-1 Annex C
226	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts, indicated by additional letter A,B,C,D : IPXXA, IPXXB, IPXXC, IPXXD	IS/IEC 60529 Cl. 15
227	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against access to hazardous parts, indicated by additional letter A,B,C,D : IPXXA, IPXXB, IPXXC, IPXXD	IS/IEC 60947-1 Annex C
228	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against Dust, indicated by first characteristic numerals 5 & 6, IP 5X (Dust Protected), IP 6X (Dust Tight)	IS/IEC 60529 Cl. 13



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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
229	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against Dust, indicated by first characteristic numerals 5 & 6, IP 5X (Dust Protected), IP 6X (Dust Tight)	IS/IEC 60947-1 Annex C
230	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60034-5 Cl. 5 & 9
231	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60529 Cl. 14
232	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against effects of temporary / continuous immersion in water, indicated by second characteristic numeral 7 & 8, IPX7 & IPX8	IS/IEC 60947-1 Annex C
233	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against solid foreign objects, Indicated by first characteristic numeral 1 to 4, IP1X, IP2X, IP3X, IP4X	IS/IEC 60529 Cl. 13
234	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against solid foreign objects, Indicated by first characteristic numeral 1 to 4, IP1X, IP2X, IP3X, IP4X	IS/IEC 60947-1 Annex C
235	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60034-5 Cl. 5 & 9
236	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60529 Cl. 14



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	NIIRT - CENTRE FOR CALIBRATION, ANALYSIS AND TESTING, PLOT NO. 306, INDUSTRIAL AREA, PHASE 1, PANCHKULA, HARYANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9344	<b>Page No</b>	19 of 20
<b>Validity</b>	23/03/2021 to 22/03/2023	<b>Last Amended on</b>	08/04/2021

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
237	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against spray and splash of water, indicated by second characteristic numeral 3 & 4, IPX3 & IPX4	IS/IEC 60947-1 Annex C
238	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60034-5 Cl. 5 & 9
239	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60529 Cl. 14
240	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection against Water jets / powerful water jets, indicated by second characteristic numeral 5 & 6, IPX5 & IPX6	IS/IEC 60947-1 Annex C
241	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Degree of Protection indicated by first characteristic numeral 1 to 6, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IS/IEC 60034-5 Cl. 4 & 8
242	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Water Immersion Test	Test no. 19 JSS 55555 Rev 3
243	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Water Immersion Test	Test no. 8 QM 333
244	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Enclosures of Electronic items / equipment / components / assemblies / products	Watertightness test	IEC 60571 Cl. 12.2.13



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

NIIRT - CENTRE FOR CALIBRATION, ANALYSIS AND TESTING, PLOT NO. 306, INDUSTRIAL AREA, PHASE 1, PANCHKULA, HARYANA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-9344

**Page No**

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**Validity**

23/03/2021 to 22/03/2023

**Last Amended on**

08/04/2021

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
Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level Monitoring	Leq, Lmax, Lmin upto 24 hours (Day and Night)	IS 9989
2	CHEMICAL- ATMOSPHERIC POLLUTION	Illumination Monitoring	Luminance	IS 3646 (Part 1)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Illumination Monitoring	Luminance	IS 6665
4	CHEMICAL- ATMOSPHERIC POLLUTION	Noise (AC Generator sets)	Noise measurement	IS/ISO 8528-10
5	CHEMICAL- ATMOSPHERIC POLLUTION	Noise (DG sets, Boiler, Compressor etc)	Source Noise	IS 4758 Cl.4.1.1(d)
6	ELECTRICAL- SAFETY TESTING FACILITY	Products like Electrical and Electronic items / equipment / assemblies	Verification/ measurement of mass/ weight	STP-03.EET
7	ELECTRICAL- SAFETY TESTING FACILITY	Solid Insulating materials of Electrical and Electronic items / equipment / assemblies	Insulation Resistance Test	IS 2259