



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8597 Page No. : 1 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
<b>Permanent Facility</b>				
1	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears (d.c. or a.c. Supplied Electronic Control gears for LED Modules)	Constructions	Clause No. 16, IS 15885(Part-2/Sec-13):2012/IEC 61347-2-13:2014: .
2	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears (d.c. or a.c. supplied electronic Control gears for LED Modules)	Marking	Clause No. 07, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13: 2014: .
3	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Creepage Distancesand Clearances	Clause No. 17, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
4	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Electric Strength	Clause. No.12, IS 15885(Part-2/Sec- 13)/Clause No. 12,IEC 61347-2-13: 2012
5	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Fault Condition	Clause No. 14, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
6	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Moisture Resistanceand Insulation	Clause No. 11, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .



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7	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Protection againstAccidental contactagainst Live Parts	Clause No. 08, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
8	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Provision for ProtectiveEarthing	Clause No. 10, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
9	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Resistance toCorrosion	Clause No. 20, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
10	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Screw, Current carryingparts and connections	Clause No. 18, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
11	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. SuppliedElectronic Controlgears for LEDModules)	Terminals	Clause No. 09, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .



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12	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. Supplied Electronic Controlgears for LEDModules)Lamp Control Gears(d.c. or a.c. Supplied Electronic Controlgears for LEDModules)	Transformer Heating	Clause No. 15, IS 15885(Part-2/Sec- 13):2012/IEC 61347-2-13:2014: .
13	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears(d.c. or a.c. Supplied Electronic Controlgears for LEDModules)	Resistance to heat fire and tracking	Clause No. 19, IS 15885 ( Part 2/Sec 13):2012/ IEC 61347-2-13 :2014: .
14	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Resistance to flame and ignition	Clause No. 12, IS 16102 (Part 1): 2012
15	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Service	Marking	Clause No. 5 ,IS 16102 (Part 1): 2012
16	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Creepage distance and Clearances	IS 16102 (Part 1), Clause No. 14: 2012
17	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Protection against Accidental contact with Live Parts	Clause No. 7, IS 16102 (Part 1): 2012
18	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Resistance to heat	IS 16102 (Part 1),Clause No. 11: 2012
19	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self BallastedLED Lamps forGeneral lighting Services	Cap TemperatureRise	IS 16102 (Part 1): 2012, Clause 10: 2012



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20	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self BallastedLED Lamps forGeneral lighting Services	Fault Condition	IS 16102 (Part 1): 2012, Clause 13, 13.2, 13.3, 13.4, 13.5, 13.6: 2012
21	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self BallastedLED Lamps forGeneral lighting Services	Insulation Resistance And Electric Strength After Humidity Treatment	IS 16102 (Part 1): 2012, Clause 8, 8.1.1, 8.2: 2012
22	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self BallastedLED Lamps forGeneral lighting Services	Mechanical Strength	IS 16102 (Part 1): 2012, Clause 9, 9.1, 9.2, 9.3: 2012
23	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self BallastedLED Lamps forGeneral lighting Services	Interchangeability (B22d, E27, E14)	IS 16102 (Part 1): 2012 Clause 6, 6.1, 6.2: 2012
24	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Equipment for Measurement Control and Laboratory Use	Durability of markings	Clause 5.3IEC 61010-1:2010+A1: 2016
25	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Equipment for Measurement Control and Laboratory Use	Humidity preconditioning treatment	Clause 6.8.2IEC 61010-1:2010+A1: 2016
26	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Equipment for Measurement Control and Laboratory Use	Mains Supply	Clauses 5.1.3IEC 61010-1:2010+A1: 2016
27	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Equipment for Measurement Control and Laboratory Use	Terminals for external circuits	Clause 6.6.2 IEC 61010-1:2010+A1: 2016
28	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Equipment for Measurement Control and Laboratory Use	Test procedures	Clause 6.8.3, 6.8.3.1,6.8.3.2 as per the requirements given in Clause 6.7.2.2.1IEC 61010-1:2010+A1: 2016



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29	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Accessible parts	IS 616:2017 IEC 60065:2014 (Clause. 11.2.3): 2017
30	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Antenna Coaxial Sockets Mounted on the Apparatus	IS 616:2017 IEC 60065:2014 (Clause. 12.5): 2017
31	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Antenna Positioners	IS 616:2017 IEC 60065:2014 (Clause. 4.2.10): 2017
32	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Apertures for external flexible cord	IS 616:2017 IEC 60065:2014 (Clause. 16.6): 2017
33	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Apparatus containing coin/ button cell batteries	IS 616:2017 IEC 60065:2014 (Clause. 12.7, 12.7.1 & 12.7.2, 12.7.3): 2017
34	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Battery compartment door/cover	IS 616:2017 IEC 60065:2014 (Clause. 12.7.4): 2017
35	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Battery replacement test	IS 616:2017 IEC 60065:2014 (Clause. 12.7.3.3): 2017
36	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Caution marking	IS 616:2017 IEC 60065:2014 (Clause. 5.4): 2017
37	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Class II Apparatus accessible Part	IS 616:2017 IEC 60065:2014 (Clause. 8.6): 2017
38	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Clearance in Circuits not conductively connected to the mains	IS 616:2017 IEC 60065:2014 (Clause. 13.3.3): 2017
39	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Clearance in Circuits conductively connected to the mains	IS 616:2017 IEC 60065:2014 (Clause. 13.3.2): 2017
40	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Clearance in Circuits conductively connected to the mains	IS 616:2017 IEC 60065:2014 (Clause. 13.3.2) : 2017
41	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	clearances and creepage distances	IS 616:2017 IEC 60065:2014 Cl. 13.1: 2017
42	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Components and parts not covered by 20.2.2, 20.2.3 and 20.2.4	IS 616:2017 IEC 60065:2014 (Clause. 20.2.5): 2017



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43	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Components and subassemblies that comply with IEC 62368-1	IS 616:2017 IEC 60065:2014 (Clause. 3.4): 2017
44	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Components as parts outside the internal fire enclosure	IS 616:2017 IEC 60065:2014 (Clause. 20.3.3): 2017
45	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Components Bridging insulation	IS 616:2017 IEC 60065:2014 (Clause. 8.7): 2017
46	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Conductively connected switch	IS 616:2017 IEC 60065:2014 (Clause. 8.20) only Visual Inspection: 2017
47	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Connector other than connecting Man Power	IS 616:2017 IEC 60065:2014 (Clause. 15.1.2): 2017
48	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	constructional requirements with regard to the protection against electric Shock	IS 616:2017 IEC 60065:2014 (Cl. 8): 2017
49	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Constructions and components not specifically covered	IS 616:2017 IEC 60065:2014 (Clause. 3.3): 2017
50	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Cord Anchorage push pull Torque	IS 616:2017 IEC 60065:2014 (Clause. 16.5): 2017
51	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Creepage Distances and Clearances	IS 616:2017 IEC 60065:2014 (Clause. 13): 2017
52	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Designation of classes	IS 616:2017 IEC 60065:2014 (Clause. 3.2): 2017
53	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Detached Wire Construction	IS 616:2017 IEC 60065:2014 (Clause. 8.11): 2017
54	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Devices forming A part of the mains plug	IS 616:2017 IEC 60065:2014 (Clause. 15.4, 15.4.1, 15.4.2, 15.4.3): 2017
55	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Disconnection from the mains	IS 616:2017 IEC 60065:2014 (Clause. 8.18): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
56	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Double insulation between accessible parts and conductors connected to the mains	IS 616:2017 IEC 60065:2014 (Clause. 8.10: 2017
57	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Drawers	IS 616:2017 IEC 60065:2014 (Clause.12.4): 2017
58	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Drop Test	IS 616:2017 IEC 60065:2014 (Clause. 12.1.5, 12.7.3.4): 2017
59	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Electric shock hazard under normal operating conditions	IS 616:2017 IEC 60065:2014 (Clause. 9.1.1: 2017
60	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Electrical Connection and Mechanical Fixings	IS 616:2017 IEC 60065:2014 (Clause. 17, 17.1 to 17.9): 2017
61	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Endurance test for wound components with insulated winding wires without additional interleaved insulation	IS 616:2017 IEC 60065:2014 (Clause. 8.17): 2017
62	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	External Flexible Cords	IS 616:2017 IEC 60065:2014 (Clause. 16.1 & 16.2,16.3,16.4,16.5,16.7)): 2017
63	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	FAULT CONDITIONS	IS 616:2017 IEC 60065:2014 (Clause. 4.3): 2017
64	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Fire Enclosure for Voltage Exceeding 4kN Apparatus	IS 616:2017 IEC 60065:2014 (Clause. 20.3 & 20.3.1): 2017
65	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Fixing of actuating elements	IS 616:2017 IEC 60065:2014 (Clause.12.2): 2017
66	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Flammability test methods	IS 616:2017 IEC 60065:2014 Clause 20: 2017
67	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	General Clearance and creepage distances	IS 616:2017 IEC 60065:2014 (Clause. 13, 13.1, 13.3.1): 2017
68	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	General Clearance and creepage distances	IS 616:2017 IEC 60065:2014 (Clause. 13, 13.1, 13.3.1): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
69	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Heat resistance of Insulating materials	IS 616:2017 IEC 60065:2014 (Clause.7.2): 2017
70	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Heating Requirements	IS 616:2017 IEC 60065:2014 (Clause. 11.2 & 11.2.1): 2017
71	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Heating under normal operating conditions	IS 616:2017 IEC 60065:2014 (Clause. 7, 7.1, 7.1.1, 7.1.2, 7.1.3, 7.1.4, 7.1.5 & 7.1.6): 2017
72	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Humidity Treatment	IS 616:2017 IEC 60065:2014 (Clause. 10.3): 2017
73	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Hygroscopic Material Testing	IS 616:2017 IEC 60065:2014 (Clause. 8.3, 8.4 & 8.5): 2017
74	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Identification & Supply Rating	IS 616:2017 IEC 60065:2014 (Clause. 5.2): 2017
75	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Impact Hammer (Impact Test) Steel Ball	IS 616:2017 IEC 60065:2014 (Clause. 19.6, 19.6.1, 19.6.2): 2017
76	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Impact Test	IS 616:2017 IEC 60065:2014 (Clause. 12.1.4, 12.7.3.5): 2017
77	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Impulse test	IS 616:2017 IEC 60065:2014 : 2017
78	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Insulated winding wires for use without interleaved insulation	IS 616:2017 IEC 60065:2014: 2017
79	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Insulation of Internal Wiring	IS 616:2017 IEC 60065:2014 (Clause. 8.8 & 8.9): 2017
80	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Insulation requirements	IS 616:2017 IEC 60065:2014 (Clause. 10, 10.1): 2017
81	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Insulation resistance and dielectric strength	IS 616:2017 IEC 60065:2014 (Cl. 10.4,10.4.1 &10.4.2): 2017
82	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Internal Wiring	IS 616:2017 IEC 60065:2014 (Clause. 20.2.3): 2017





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83	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Mains switch	IS 616:2017 IEC 60065:2014 (Clause. 8.19): 2017
84	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Marking and Instructions, General Requirements	IS 616:2017 IEC 60065:2014 (Clause. 5): 2017
85	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	marking instruction test	IS 616:2017 IEC 60065:2014 (Clause. 5.5, 5.5.1, 5.5.2 & 5.5.3): 2017
86	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011
87	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011
88	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011
89	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Measurement of Transient Voltages	IS 616:2017 IEC 60065:2014 (Clause. 13.3.4): 2017
90	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Mechanical Strength, Complete Apparatus	IS 616:2017 IEC 60065:2014 (Clause. 12, 12.1, 12.1.1): 2017
91	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Mechanical Strength, vibration test	IS 616:2017 IEC 60065:2014 (Clause. 12, 12.1, 12.1.3): 2017
92	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Non-separable thin sheet material	IS 616:2017 IEC 60065:2014 (Clause. 8.21): 2017
93	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Normal Operating Condition	IS 616:2017 IEC:60065:2014 (Clause. 4.2, 4.2.2, 4.2.5): 2017
94	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Normal Operating Condition	IS 616:2017 IEC:60065:2014 (Clause. 4.2, 4.2.2, 4.2.5): 2017
95	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Normal Operating Condition	IS 616:2017 IEC:60065:2014 (Clause. 4.2, 4.2.2, 4.2.5): 2017
96	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Parts acting as a support or mechanical barrier	IS 616:2017 IEC 60065:2014 (Clause. 11.2.5): 2017



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97	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Parts acting as a support or mechanical barrier	IS 616:2017 IEC 60065:2014 (Clause. 11.2.5): 2017
98	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Parts not subject to a limit under 11.2.2 to 11.2.7 inclusive	IS 616:2017 IEC 60065:2014 (Clause. 11.2.8): 2017
99	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Parts other than windings and printed boards, providing insulation	IS 616:2017 IEC 60065:2014 (Clause. 11.2.4): 2017
100	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Parts other than windings and printed boards, providing insulation	IS 616:2017 IEC 60065:2014 (Clause. 11.2.4): 2017
101	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Physical Securement	IS 616:2017 IEC 60065:2014 (Clause. 12.6.2): 2017
102	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Plug & Sockets	IS 616:2017 IEC 60065:2014 (Clause. 15 & 15.1, 15.1.1): 2017
103	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Power Consumption in - Active Mode	IEC 62087: 2008 (Cl.11) audio: 2008
104	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Power Consumption in - Active Mode	IEC 62087: 2008 (Cl.11) audio: 2008
105	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Printed Boards	IS 616:2017 IEC 60065:2014 (Clause. 13.5, 13.5.1, 13.5.2): 2017
106	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Printed Boards	IS 616:2017 IEC 60065:2014 (Clause. 11.2.7): 2017
107	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Provision for protective earthing	IS 616:2017 IEC 60065:2014 (Clause. 15.2): 2017
108	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Remote control device held in hand	IS 616:2017 IEC 60065:2014 (Clause.12.3): 2017
109	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Removal of Protective Covers	IS 616:2017 IEC 60065:2014 (Clause. 9.2): 2017
110	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Requirements for Insulated Winding Wires for use without additional interleaved Insulation	IS 616:2017 IEC 60065:2014 (Clause. 8.16): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
111	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Resistance to Fire (Electrical Components)	IS 616:2017 IEC 60065:2014 (Clause. 20.1, 20.2,20.3): 2017
112	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Shafts of operating knobs, handles, levers	IS 616:2017 IEC 60065:2014 (Clause. 9.1.2): 2017
113	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Stability and mechanical hazards	IS 616:2017 IEC 60065 (Clause. 19, 19.1, 19.2, 19.3, 19.4, 19.5,19.6,19.7)): 2017
114	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Stress Relief Test	IS 616:2017 IEC 60065:2014 (Clause. 12.1.6, 12.7.3.2): 2017
115	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Surge Test	IS 616:2017 IEC 60065:2014 (Clause. 10.2): 2017
116	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Telescopic or rod antenna, General Requirements	IS 616:2017 IEC 60065:2014 (Clause. 12.6): 2017
117	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Temperature rise of insulation	IS 616:2017 IEC 60065:2014 (Clause. 16.4): 2017
118	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Terminal and connectors used in Output Circuit of supply app.	IS 616:2017 IEC 60065:2014 (Clause. 15.1.3): 2017
119	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Terminals for external flexible cords and for permanent connection to the mains supply	IS 616:2017 IEC 60065:2014 (Clause. 15.3): 2017
120	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Terminals	IS 616:2017 IEC 60065:2014 (Clause. 5.3): 2017
121	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Terminals, pugs and shockets	IS 616:2017 IEC 60065:2014 (Clause. 15, 15.1): 2017
122	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	The distance between conductive parts filled with compound	IS 616:2017 IEC 60065:2014 (Clause. 13.8): 2017
123	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Transportable apparatus	IS 616:2017 IEC 60065:2014 (Clause. 16.7): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
124	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Ventilation Opening of enclosure	IS 616:2017 IEC 60065:2014 (Clause. 20.3.2): 2017
125	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Wall or ceiling Mounting means	IS 616:2017 IEC 60065:2014 (Clause. 19.7, 19.7.1-19.7.3): 2017
126	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Winding	IS 616:2017 IEC 60065:2014 (Clause. 11.2.6): 2017
127	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Winding	IS 616:2017 IEC 60065:2014 (Clause. 11.2.6): 2017
128	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Windows, Lenses, Signal Lamp, Covers, Internal Wiring Accessibility	IS 616:2017 IEC 60065:2014 (Clause. 8.12, 8.13, 8.14 & 8.15): 2017
129	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Windows, Lenses, Signal Lamp, Covers, Internal Wiring Accessibility	IS 616:2017 IEC 60065:2014 (Clause. 8.12, 8.13, 8.14 & 8.15): 2017
130	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Constructional requirements with regard to the protection against electric shock	IS 616:2017 IEC 60065:2014 (Clause. 8, 8.1 & 8.2): 2017
131	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	External Flexible Cord	IS 616:2017 IEC 60065:2014 (Clause. 16.3): 2017
132	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	FAULT CONDITIONS	IS 616:2017 IEC 60065:2014 (Clause. 4.3): 2017
133	ELECTRONICS-AUDIO EQUIPMENT	Audio and Video Products	Fault Conditions	IS 616:2017 IEC 60065:2014 (Clause. 11): 2017
134	ELECTRONICS-AUDIO EQUIPMENT	Audio video equipment	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011
135	ELECTRONICS-AUDIO EQUIPMENT	Audio video equipment	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011
136	ELECTRONICS-AUDIO EQUIPMENT	Audio video equipment	Power Consumption in - Active Mode	IEC 62087: 2008 (Cl.11): 2008



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
137	ELECTRONICS-AUDIO EQUIPMENT	Audio video equipment	Power Consumption in - Active Mode	IEC 62087: 2008 (CI.11): 2008
138	ELECTRONICS-AUDIO EQUIPMENT	Audio video equipment	Power Consumption in - Active Mode	IEC 62087: 2008 (CI.11): 2008
139	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Durability of marking	IEC 62368-1: 2018
140	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Electric Strength	IEC 62368-1 Cl. No. 5.4.9: 2018
141	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Equipment for direct insertion into mains socket-outlet	IEC 62368-1 Cl. No. 4.7: 2018
142	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Equipment having an Electro- mech. device for destruction of media	IEC 62368-1 Cl.8.5.4.2: 2018
143	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Equipment mounted to awall or ceiling	IEC 62368-1 Cl.8.7 to 8.12: 2015
144	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Glass slide	IEC 62368-1 Cl.8.6.4 : 2018
145	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Handle strength method	IEC 62368-1 Cl.8.8: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
146	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Horizontal force	IEC 62368-1 Cl.8.6.5: 2018
147	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Resistance of protective conductors and their terminations	IEC 62368-1 Cl.5.6.4.1: 2018
148	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Resistance of protective conductors and their terminations	IEC 62368-1 Cl.5.6.4.1: 2018
149	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Safeguards against transients voltages from external circuits	IEC 62368-1 Cl. No. 5.4.10: 2018
150	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Separation between external circuits and earth	IEC 62368-1 Cl.5.4.11: 2018
151	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Static stability for floor standing equipment	IEC 62368-1 Cl.8.6.2: 2018
152	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Steady state voltage and current limits	IEC 62368-1 Cl. 5.2.2.2: 2018
153	ELECTRONICS-AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Thermal Cycling Procedure	IEC 62368-1 Cl. No.5.4.1.5.3: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
154	ELECTRONICS- AUDIO EQUIPMENT	Audio/Video, Information and communication Technology Equipment	Top openings and top openings properties	IEC 62368-1 Cl.6.4.8.3.3: 2018
155	ELECTRONICS- EMC TEST FACILITY	Any Electrical /Electronic ProductWith DC Power Port	Voltage Dips Short Interruption & VoltageVariations Immunity Test on D.C. input power port immunity tests	IEC 61000-4-29:2001 CISPR 35:2016 CISPR 24: 2010 EN 55024 : 2010 EN 55014-2 : 2015 CISPR 14-2 : 2015 EN 61000-6-1: 2005 EN 61000-6-2: 2005 IEC 61000-6-1: 2016 IEC 61000-6-2: 2016 TEC/ SD/DD/EMC-221-05/OCT-16 EN 55035: 2017: 2017
156	ELECTRONICS- EMC TEST FACILITY	Consumers and House Hold Products	Radiated RF Power Disturbance	IS 6873-2-1:2012, CISPR 14-1:2016, EN/IEC 55014-1:2017: 2017
157	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Measuring relays/ Power station/ Multimedia equipment	Power Frequency Magnetic field Immunity test	IEC 61000-4-8 (Edition 2.0) (2009-09) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61547: 2009 IEC 62040-2 (Edition 3.0) (2016-11) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) EN 50121-4: 2015 EN 61000-4-8: 2010 EN 50370-2: 2003 EN 55024: 2010 EN 55024:2010+A1:2015 EN 55035:2017: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
158	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Measuring relays/ Power station/ Multimedia equipment	Power Frequency Magnetic field Immunity test	EN 50121-4: 2015 EN 61000-4-8: 2010 EN 50370-2: 2003 EN 55024: 2010 EN 55024:2010+A1:2015 EN 55035:2017 EN 60601-1-2: 2007/AC: 2010, EN 60601-1-2:2015 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013 EN 61547: 2009 EN 62040-2: 2006 IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) @IEC 870-2-1(Edition 2.0) (1995-12) CISPR 35 (Edition 1.0) (2016-08): 2016
159	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Measuring relays/ Power station/ Multimedia equipment	Power Frequency Magnetic field Immunity test	IEC 61000-4-8 (Edition 2.0) (2009-09) EN 50083-2:2012 IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61547: 2009 IEC 62040-2 (Edition 3.0) (2016-11) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04): 2015





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
160	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	High Energy / Telecom Surge Immunity Test	GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE: Issue 6, May 2011 ITU-T K.20 (2016-06) ITU-T K.21 (2016-06) ITU-T K.43 (07/2009) ITU-T K.44 (06/2016) ITU-T K.45 (06/2016) ITU-T K.48 (09/2006) TEC/EMI/TEL-001/01/FEB-09 TEC/SD/DD/EMC-221/05/OCT-16 IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) IEC 60571 (Edition 3.0)(2012-09) @IEC 62236-3-2(Edition 2.0)(2008-12) @EN 50121-3-2:2015 IEC 60870-2-1(Edition 2.0) (1995-12) IEEE Std C6: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
161	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	High Energy / Telecom Surge Immunity Test	CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &2 (2008-07) CISPR 14-2 (Edition 2.0) (2015-02) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) CISPR 35:2016 EN 61000-4-5: 2014 EN 12016:2013 EN 50121-4: 2015 EN 50370-2: 2003 EN 55014-2: 1997:Amd. 2: 2008 EN 55014-2: 2015 EN 55024: 2010 EN 55024:2010+A1:2015 EN 55103-2: 2009 EN 55035:2017: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
162	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	High Energy / Telecom Surge Immunity Test	EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 50130-4: 2011 EN 50130-4:2011+A1:2014 EN 61326-1: 2013 EN 61496-1: 2013 EN 61547: 2009 EN 62040-2: 2006 EN 62052-11: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
163	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense / Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Radiated radio frequency electromagnetic field Immunity Test	IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) CISPR 35 (Edition 1.0) (2016-08) SAE J1113/21 (2013-05) IEC 60870-2-1(Edition 2.0) (1995-12) IEEE C37.90.2-2004 CISPR 35: 2016: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
164	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense / Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Radiated radio frequency electromagnetic field Immunity Test	IEC 61000-4-3 (Edition 3.2) Consol. with Amd. 1 &2 (2010-04) IEC 60601-1-2 (Edition 3.0) (2007-03) EN 50083-2:2012IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 3.0) (2016-08) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 61547: 2009 IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11): 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
165	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense / Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Radiated radio frequency electromagnetic field Immunity Test	CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 & 2 (2008-07) CISPR 14-2 (Edition 2.0) (2015-02) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) CISPR 20: 2006 CISPR 20 :2006+AMD1 :2013 (Edition 6.1) (2013-10) EN 61000-4-3 : 2006Amd. 2 : 2010 EN 12016:2013 EN 50121-4: 2015 EN 50370-2: 2003 EN 55014-2: 1997:Amd. 2: 2008 EN 55014-2: 2015 EN 55024: 2010 EN 55024:2010+A1:2015 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 50130-4: 2011 EN 50130-4:2011+A1:2014: 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
166	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense / Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Radiated radio frequency electromagnetic field Immunity Test	EN 61000-6-1 : 2007 EN 61000-6-2 : 2005 EN 61326-1: 2013 EN 61496-1: 2013 EN 61547: 2009 EN 62040-2: 2006 EN 62052-11: 2003 EN 62053-21: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03) GR-1089-CORE, Issue 5, August 2009 GR 1089-CORE, Issue 5, August 2009 GR-1089-CORE: Issue 6, May 2011 ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) ISO 1145: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
167	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense/Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	Electrostatic Discharge Immunity Test	IEC 61000-4-2 (Edition 2.0)(2008-12) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2016-08) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61340-3-1 (Edition 2.0) (2006-12) IEC 61496-1 (Edition 3.0) (2012-04) K 20, K 21, K 44, K 47 IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11): 2016





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Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8597 Page No. : 25 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
168	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense/Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	Electrostatic Discharge Immunity Test	EN 55024: 2010 EN 50083-2:2012EN 55024:2010+A1:2015 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 61000-6-1 : 2007 EN 61000-6-2 : 2005 EN 61326-1: 2013 EN 61340-3-1: 2007 EN 61496-1: 2013 EN 61547: 2009 EN 62040-2: 2006 EN 62052-11: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 (2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03): 2017



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## SCOPE OF ACCREDITATION

Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8597 Page No. : 26 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
169	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense/Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	Electrostatic Discharge Immunity Test	GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE: Issue 6, May 2011 ITU-T K.20 (2016-06) ITU-T K.21 (2016-06) ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) ITU-T K.63 (02/2004) ISO 10605 (Edition 2.0)(2008-07) ISO 10605: 2008:Amd. 1 (2014-04) SAE J551/15:2015-09 SAE J1113/13:2015-02 TEC/EMI/TEL-001/01/FEB-09, TEC/SD/DD/EMC-221/05/OCT-16 IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) IEC 60571 (Edition 3.0)(2012-09) IEC 61547: 2009 IEC : 2016



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Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
170	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific / Medical/ Aerospace / Automotive / Defense/Telecom/ Consumer / Household / Machinery /Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Relay systems/ Lifts Elevators and Moving walks	Electrostatic Discharge Immunity Test	CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &2 (2008-07) CISPR 14-2 (Edition 2.0) (2015-02) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) CISPR 20: 2006 CISPR 20 :2006+AMD1 :2013 (Edition 6.1) (2013-10) EN 12016:2013 EN 61000-4-2 : 2009 EN 50121-3-2:2015 EN 50121-4: 2015 EN 50130-4: 2011 EN 50130-4:2011+A1:2014 EN 50370-2: 2003 EN 55014-2: 1997:Amd. 2: 2008 EN 55014-2: 2015: 2015



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Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
171	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement/ Laboratory/ Locomotive/ RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Electrical fast transient (EFT) / Burst Immunity Test (EFT)	ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03) GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE: Issue 6, May 2011 ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) ITU-T K.63 (02/2004) TEC/EMI/TEL-001/01/FEB-09 TEC/SD/DD/EMC-221/05/OCT-16 IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) IEC 60571 (Edition 3.0) (2012-09) IEC 62236-3-2(Edition 2.0) (2008-12) EN 50121-3-2:2015 CISPR 35 : 2016



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Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
172	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement/ Laboratory/ Locomotive/ RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Electrical fast transient (EFT) / Burst Immunity Test (EFT)	EN 55103-2 : 2009 EN 50130-4: 2011 EN 50130-4:2011+A1:2014 EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 61000-6-1 : 2007 EN 61000-6-2 : 2005 EN 61326-1 : 2013 EN 61496-1: 2013 EN 61547: 2009 EN 62040-2 : 2006 EN 62052-11: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03): 2017



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Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8597 Page No. : 30 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
173	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery /Test and Measurement/ Laboratory/ Locomotive/ RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/Relay Systems/ Lifts Elevators and Moving walks	Electrical fast transient (EFT) / Burst Immunity Test (EFT)	IEC 61000-4-4 (Edition 3.0) (2012-04) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2016-08) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 61547: 2009 IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11): 2016



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Certificate Number TC-8597 Page No. : 31 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
174	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense/ Telecom/ Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Multimedia equipments/ Lifts Elevators and Moving walks	Voltage dips, short interruptions and voltage variations Immunity test	IEC 61000-4-11: 2017 IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2016-08) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 61547: 2009 IEC 62052-11:2003+AMD1:2016 : 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
175	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense/ Telecom/ Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Multimedia equipments/ Lifts Elevators and Moving walks	Voltage dips, short interruptions and voltage variations Immunity test	IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11) @IEC 61000-4-34:2005 @IEC 61000-4-34:2005/AMD1:2009/ COR1:2009 CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 & 2 (2008-07) CISPR 14-2 (Edition 2.0) (2015-02) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) EN 61000-4-11: 2004 EN 12016:2013 EN 50370-2: 2003 EN 55014-2: 1997: Amd. 2: 2008 EN 55014-2: 2015: 2015





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Certificate Number TC-8597 Page No. : 33 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
176	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense/ Telecom/ Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Multimedia equipments/ Lifts Elevators and Moving walks	Voltage dips, short interruptions and voltage variations Immunity test	EN 55024: 2010 EN 55024:2010+A1:2015 EN 55103-2: 2009 EN 50130-4: 2011 EN 50130-4:2011+A1:2014 EN 60601-1-2: 2007/AC: 2010, EN 50083-2:2012 EN 60601-1-2:2015 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013 EN 61496-1: 2013 EN 61547: 2009 @EN 61000-4-34:2007+A1:2009 EN 62052-11: 2003 EN 55035:2017: 2017



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Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8597 Page No. : 34 / 81

Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
177	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic / Industrial Automation / Scientific/ Medical/ Aerospace / Automotive / Defense/ Telecom/ Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Multimedia equipments/ Lifts Elevators and Moving walks	Voltage dips, short interruptions and voltage variations Immunity test	ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03) ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) TEC/EMI/TEL-001/01/FEB-09, TEC/SD/DD/EMC-221/05/OCT-16 IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) CISPR 35 (Edition 1.0) (2016-08) IEC 870-2-1 (Edition 2.0) (1995-12) CISPR 35:2016: 2016



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## SCOPE OF ACCREDITATION

Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
178	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace / Automotive/ Defense/ Telecom/ Consumer/ Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment / Lifts Elevators and Moving walks	Conducted disturbances, induced by radio-frequency fields Immunity Test	EN 61000-6-1 : 2007 EN 61000-6-2: 2005 EN 61326-1 : 2013 EN 61496-1: 2013 EN 61547: 2009 EN 62040-2 : 2006 EN 62052-11: 2003 EN 62053-21: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE: Issue 6, May 2011 GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE :Issue 6, May 2011 ETSI EN 301 489-17 V3.2.0 (2017-03): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
179	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace / Automotive/ Defense/ Telecom/ Consumer/ Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment / Lifts Elevators and Moving walks	Conducted disturbances, induced by radio-frequency fields Immunity Test	IEC 61000-4-6 (Edition 4.0) (2013-10) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) EN 50083-2:2012IEC 61000-6-1 (Edition 3.0) (2016-08) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61000-6-2 (Edition 3.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 61547: 2009 IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21 (Edition 1.0) (2003-01) IEC 62053-21 :2003/AMD1:2016 (Edition 1.1) (2016-11): 2016



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Validity 31/07/2019 to 30/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
180	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace / Automotive/ Defense/ Telecom/ Consumer/ Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment / Lifts Elevators and Moving walks	Conducted disturbances, induced by radio-frequency fields Immunity Test	CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 & 2 (2008-07) CISPR 14-2 (Edition 2.0) (2015-02) CISPR 24 (Edition 2.0) (2010-08) CISPR 24 (Edition 2.1) (2015-04) CISPR 20: 2006 CISPR 20 :2006+AMD1 :2013 (Edition 6.1) (2013-10) EN 61000-4-6 : 2014 EN 12016:2013 EN 50121-4: 2015 EN 50370-2 : 2003 EN 55014-2 : 1997 :Amd. 2 : 2008 EN 55014-2: 2015 EN 55024 : 2010 EN 55024:2010+A1:2015 EN 55103-2 : 2009 EN 50130-4: 2011 EN 50130-4:2011+A1:2014 EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 55035 : 201: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
181	ELECTRONICS- EMC TEST FACILITY	IT Products / Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace / Automotive/ Defense/ Telecom/ Consumer/ Household / Machinery / Test and Measurement/ Laboratory / Locomotive / RF Products / Wireless Products/ Lighting products/ Arc Welding Equipment/ Measuring relays/ Power station/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment / Lifts Elevators and Moving walks	Conducted disturbances, induced by radio-frequency fields Immunity Test	ISO 11452-4: 2011 ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) SAE J1113/4: (2014-04) AIS-004 (Part 2): 1999 Amd.1 (2003-09) AIS-004 (Part 3): 1999 Amd.2 (2008-05) TEC/EMI/TEL-001/01/FEB-09, TEC/SD/DD/EMC-221/05/OCT-16 IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 61000-6-5 (Edition 1.0) (2015-08) IEC 62236-3-2(Edition 2.0)(2008-12) EN 50121-3-2:2015 CISPR 35 (Edition 1.0) (2016-08): 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
182	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Conducted Emission	EN 60601-1-2:2015 EN 61000-6-3: 2007/Amd. 1: 2011, EN 50083-2:2012 EN 61000-6-4: 2007/Amd. 1: 2011 EN 61326-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003 ETSI EN 300 330-2 V1.6.1 (2015-03) ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03) ETSI EN 301 908-1 V11.1.1 (2016-07) ETSI EN 300 328 V2.1.1 (2016-11) 47 CFR Ch. 1 (Part 15) 47 CFR Ch. 1 (Pa: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
183	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Conducted Emission Test	ITU-T K.48 (09/2006) ITU-T K.60 (2015-12) ITU-T K.63 (02/2004) SAE J1113/1: 2013-10-01 AIS-004 (Part 1): 1999 AIS-004 (Part 2): 1999 Amd.1 (2003-09) AIS-004 (Part 3): 1999 Amd.2 (2008-05) AIS-049 (Rev.1): 2016 ICES-001 Issue 4, June 2006 (UPDATED - NOVEMBER 2014) ICES-003 Issue 5, Aug 2012 ICES-003 Issue 6, January 2016 (Updated -June 2016) ICES-005 Issue 3, May 2009 ICES-005 Issue 4, December 2015 TEC/EMI/TEL-001/01/FEB-09 TEC/S: 2016





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
184	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Conducted Emission Test	CISPR 11 (Edition 6.0) 2015/AMD1:2016 CISPR 11 (Edition 6.1) 2015+AMD1:2016-06+AMD 2:2019 CSV @CISPR 14-1 (Edition 6.0) (2016-08) CISPR 22 (Edition 6.0) (2008-09) CISPR 25 (Edition 4.0) (2016-10) CISPR 32 (Edition 2.0) (2015-03) EN 12015:2014 EN 55011: 2016 @EN 55014-1: 2006/Amd. 2: 2011 EN 55015: 2017 EN 55022: 2010/AC: 2011 EN 50561-1:2013 EN 55032:2015 EN 55025: 2008 EN 55103-1: 2009/Amd. 1: 2012 EN 50370-1: 2005 EN 60601-1-2: 2007/AC: 2010: 2010



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
185	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Conducted Emission Test	IEC 60974-10 (Edition 3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 60571 (Edition 3.0)(2012-09) IEC 62236-3-2(Edition 2.0)(2008-12) EN 50121-3-2:2015 CISPR 13:2009+AMD1:2015 CSV (Edition 5.1) (2015-01) MIL 461 E,F & G CE 101,102 IEC 60870-2-1(Edition 2.0)(1995-12) ETSI EN 302 502 V2.1.1 (2017-03): 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
186	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Conducted Voltage Disturbance	IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-3 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61000-6-4 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11) CISPR 11 (Edition 5.1) Consol. with Amd. 1 (2010-05): 2010



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
187	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Radiated Emission Test	IEC 60601-1-2 (Edition 3.0)(2007-03) IEC 60601-1-2 (Edition 4.0)(2014-02) EN 50083-2:2012 IEC 61000-6-3 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61000-6-4 (Edition 2.1 Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 62040-2 (Edition 3.0) (2016-11) IEC 62052-11:2003+AMD1:2016 (Edition 1.1) IEC 62053-21:2003/AMD1:2016 (Edition 1.1) (2016-11) CISPR 11 (Edition 5.1) Consol. with Amd. 1 (2010-05) CISPR 11 (Edition 6.1) 2015+AMD1:2016-06+ AMD 2:2019 CISPR 14-1 (Edition 6.0: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
188	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Radiated Emission Test	ITU-T K.48 (09/2006) AIS-049 (Rev.1):2016 ICES-001 Issue 4, June 2006 (UPDATED - NOVEMBER 2014) ICES-003 Issue 5, Aug 2012 ICES-003 Issue 6, January 2016 (Updated -June 2016) ICES-005 Issue 3, May 2009 ICES-005 Issue 4, December 2015 TEC/EMI/TEL-001/01/FEB-09 TEC/SD/DD/EMC-221/05/OCT-16IEC 60974-10 (Edition3.1) (2015-06) IEC 60255-26 (Edition 3.0) (2013-05) IEC 60571 (Edition 3.0)(2012-09) IEC 62236-3-2(Edition 2.0)(2008-12) EN 50121-3-2:2015 CISPR 13:2009+AMD1, CISPR 32:2015: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
189	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Radiated Emission Test	EN 61326-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003 EN 62053-21: 2003 EN 50370-1: 2005 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V2.1.1 (2016-07) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V2.2.0 ( 2017-03) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V3.2.0 (2017-03) 47 CFR Ch. I (12-1-16 Edition) (Part 15) 47 CFR Ch. I (12-1- 16 Edition) Part 18 RSS-Gen, Issue 4, Nov 2014 RSS-247 Issue 2 Feb 2017: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
190	ELECTRONICS- EMC TEST FACILITY	IT Products/ Domestic/ Industrial Automation / Scientific/ Medical/ Aerospace/ Automotive/ Defense/ Telecom/ Consumer/ Household/ Machinery /Test and Measurement / Laboratory/ Locomotive / RF Products/ Wireless Products/ Arc Welding Equipment/ Measuring relays/ Railway application/ Sound and TV broadcast receivers/ Multimedia equipment/ Lifts Elevators and Moving walks	Radiated Emission Test	EN 12015:2014 EN 55011: 2016 EN 55014-1: 2006/Amd. 2: 2011 EN 55015: 2013 EN 55015:2013+A1:2015 EN 55022: 2010/AC: 2011 EN 50561-1:2013 EN 55032:2015 EN 55025: 2008 EN 55103-1: 2009/Amd. 1: 2012 EN 60601-1-2: 2007/AC: 2010 EN 60601-1-2:2015 EN 61000-6-3: 2007/Amd. 1: 2011 EN 61000-6-4: 2007/Amd. 1: 2011: 2011
191	ELECTRONICS- EMC TEST FACILITY	Lamps & Luminaries	Conducted Emission Test	IS 6873-5:2012, EN / IEC 61547:2009, IEC/EN 55015:2015, CIPSR 15: 2018
192	ELECTRONICS- EMC TEST FACILITY	Lamps & Luminaries	Radiated Magnetic Emission (Loop Antenna Method)	IS 6873-5:2012, EN / IEC 61547:2009, IEC/EN 55015:2015, CIPSR 15: 2018
193	ELECTRONICS- EMC TEST FACILITY	Power Station/ Railway Products	Pulse Magnetic field Immunity test	IEC 61000-4-9 (Edition 1.1 Consol. with Amd. 1 (2001-03) IEC 61000-4-9:2016 (Edition 2.0) (2016-07) EN 61000-4-9: 1994 EN 61000-4-9:2016: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
194	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Damp Heat Test	IEC 60068-2-30(2005)EN 60068-2-30 (2005)IS 9000:Part5:Sec 1 and 2:1981(R 2010)QM 333 (Test No 3) JSS 55555,JSS50101: 2010
195	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	High Temperature Test	IEC 60068-2-2(2007)EN 60068-2-2(2007)IS 9000:Part3:Sec 1 to 5: 1977 (R:2010)QM 333 (Test No 2) JSS 55555,JSS 50101: 2010
196	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Steady State	IEC 60068-2-78(2012)EN 60068-2-78 (2013)IS 9000:Part4:2008 (2015) QM 333 (Test No 5) JSS 55555,JSS50101: 2015
197	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Composite temperature/humidityCyclic test	IS 9000 P6, IEC 60068-2-38, Test no 4 of QM 333: 22 of JSS 55555 JSS 50101: 2010
198	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Impact, Drop Test	IEC 60068-2-31: 2008 IS 7028 (Part 4): 1987 IS 9000-7 (Sec 1-8) (RA 2018) QM 333 JSS 55555,JSS50101: 2010
199	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP1X	IEC 60529, IEC 60950-22: 2013
200	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP2X	IEC 60529, IEC 60950-22: : 2013
201	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP3X	IEC 60529, IEC 60950-22:: 2013
202	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP4X	IEC 60529, IEC 60950-22:: 2013





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
203	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP5X	QM 333 ,JSS 55555: 2013
204	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 1st characteristic numeral IP6X	QM 333, JSS 55555, IEC 60950-22,IEC 60529: 2013
205	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX1	IEC 60529: 2013
206	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX2	IEC 60529, IEC 60950-22: 2013
207	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX3	IEC 60529, IEC 60950-22: 2013
208	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX4	IEC 60529, IEC 60950-22: 2013
209	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX5	IEC 60529, IEC 60950-22: 2013
210	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX6	IEC 60529, IEC 60950-22: 2013
211	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Items	Ingress Protection, 2nd characteristic numeral IPX7	IEC 60529, IEC 60950-22: 2013
212	ELECTRONICS- IT EQUIPMENT	Audio video equipment	Measurement of Power	IEC 62301: 2011 (Cl.5): 2011



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
213	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Durability of marking	IEC 62368-1:2018(Ed.2.0), : 2018
214	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Electric strength	Cl.no.5.4.9, IEC 62368-1:2018(Ed.2.0) : 2018
215	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment for direct insertion into mains socket-outlet	Cl:4.7, IEC 62368-1:2018(Ed.2.0) : 2018
216	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment having an Electro-mechanical device for destruction of media	Cl:8.5.4.2, IEC 62368-1:2018(Ed.2.0) : 2018
217	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment mounted to a wall or ceiling	Cl:8.7 to 8.12, IEC 62368-1:2018(Ed.2.0), : 2018
218	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Glass slide test	Cl:8.6.4 , IEC 62368-1:2018(Ed.2.0) : 2018
219	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Handle strength test method Wheels or casters attachment requirement Carts, stands and similar carriers Mounting means for rack mounted equipment Telescoping or rod Antennas	Cl:8.8 to 8.12, IEC 62368-1:2018(Ed.2.0), : 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
220	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Horizontal force test	CI:8.6.5, IEC 62368-1:2018(Ed.2.0) : 2018
221	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Humidity Treatment	CI.no.5.4.8, IEC 62368-1(Ed.2.0) : 2018
222	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Max. operating temperatures for materials,components and systems	CI:5.4.1.4, 9.2.5, IEC 62368-1:2018(Ed.2.0) : 2018
223	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Max. operating temperatures for materials,components and systems	CI:5.4.1.4, 9.2.5, IEC 62368-1:2018(Ed.2.0) : 2018
224	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Max. operating temperatures for materials,components and systems	CI:5.4.1.4, 9.2.5, IEC 62368-1:2018(Ed.2.0) : 2018
225	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Mechanical energy sourceclassifications	CI:8.2, IEC 62368-1:2018(Ed.2.0) : 2018
226	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power source circuitclassification	CI:6.2.2, IEC 62368-1:2018(Ed.2.0) : 2018
227	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power source circuitclassification	CI:6.2.2, IEC 62368-1:2018(Ed.2.0) : 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
228	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power source circuitclassification	CI:6.2.2, IEC 62368-1:2018(Ed.2.0) : 2018
229	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Prospective touch voltage, touch current & protective Conductor current	CI:5.7, IEC 62368-1:2018(Ed.2.0), : 2018
230	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Prospective touch voltage, touch current & protective Conductor current	CI:5.7, IEC 62368-1:2018(Ed.2.0), : 2018
231	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection against energy sources	CI:4.3 IEC 62368-1: 2018
232	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistance of protectiveconductors and their terminations	CI:5.6.4.1, IEC 62368-1:2018(Ed.2.0): 2018
233	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistance of protectiveconductors and their terminations	CI:5.6.4.1, IEC 62368-1:2018(Ed.2.0) : 2018
234	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistance of protectiveconductors and their terminations	CI:5.6.4.1, IEC 62368-1:2018(Ed.2.0) : 2018
235	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards againsttransient voltages from external circuits	CI.no.5.4.10, IEC 62368-1:2018(Ed.2.0) : 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
236	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Separation between external circuits & earth	Cl.no.5.4.11, IEC 62368-1:2018(Ed.2.0) : 2018
237	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Static stability for floor standing equipment	Cl:8.2, IEC 62368-1:2018(Ed.2.0) : 2018
238	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady- state voltage and current limits	Cl:5.2.2.2, IEC 62368-1:2018(Ed.2.0) : 2018
239	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Top openings and top openings properties	Cl:6.4.8.3.3, IEC 62368-1:2018(Ed.2.0) : 2018
240	ELECTRONICS- IT EQUIPMENT	Household Electrical Appliances Eg. Television, Laptop, Scanner, Printer, Power Supplies	Average Reading Method (Measurement Of standby Power)	IEC 62301 (2nd Edition) (Cl.5.3.3) IT 2011: 2011
241	ELECTRONICS- IT EQUIPMENT	Household Electrical Appliances Eg. Television, Laptop, Scanner, Printer, Power Supplies	Average Reading Method (Measurement Of standby Power)	IEC 62301 (2nd Edition) (Cl.5.3.3) IT 2011: 2011
242	ELECTRONICS- IT EQUIPMENT	Household Electrical Appliances Eg. Television, Laptop, Scanner, Printer, Power Supplies	Average Reading Method (Measurement Of standby Power)	IEC 62301 (2nd Edition) (Cl.5.3.3) IT: 2011



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
243	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Abnormal Operating and Fault Conditions	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.5.3: 2015
244	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Provision for Earthing and Bonding	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.6: 2015
245	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Clearances and Creepage distances and distance through insulation	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.10: 2015
246	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Connection to cable distribution systems	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.7: 2015
247	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Connection to telecommunication networks	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.6: 2015
248	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Electric strength	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.5.2: 2015
249	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Electrical Insulation	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.9: 2015
250	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	limited current circuits	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.4: 2015
251	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	limited power sources	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.5: 2015
252	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	limited power sources	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.5: 2015
253	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Limited power sources	IS 13252(Part 1)+A1+A2/ IEC 60950-1 Ed 2.0 Cl.2.5: 2015
254	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Mechanical strength (impact, Drop,Stress relief)& Design and construction	IS 13252(Part 1)+A1+A2 IEC 60950-1 Ed 2.0 Cl.4.2,4.3: 2015
255	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Opening in enclosure	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.4.6: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
256	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	over current and earth fault protection in primary circuits	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.7: 2015
257	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	power interface	IS 13252(Part 1)+A1+A2/ IEC 60950-1 Ed 2.0 Cl.1.6: 2015
258	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	power interface	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.1.6: 2015
259	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	power interface	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.1.6: 2015
260	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Protection against hazardous moving parts	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.4.4: 2015
261	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	protection from hazards	IS 13252(Part 1)+A1+A2/ IEC 60950-1 Ed 2.0 Cl.2.1: 2015
262	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Provision for Earthing and Bonding	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.6: 2015
263	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Provision for Earthing and Bonding	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.6 : 2015
264	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Resistance to fire	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.4.7: 2015
265	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	safety interlocks	IS 13252(Part 1)+A1+A2/ IEC 60950-1 Ed 2.0 Cl.2.8.1,2.8.4,2.8.6,2.8. 8: 2015
266	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	SELV circuits	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.2: 2015
267	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Stability	IS: 13252(P-1):2015/ IEC 60950-1:2013 (Cl. 4.1): 2015
268	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Thermal requirement	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.4.5: 2015
269	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	TNV Circuits	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.2.3: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
270	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Touch current and protective conductor current	IS 13252(Part 1)+A1+A2/ IEC 60950-1 Ed 2.0 Cl.5.1: 2015
271	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Verification of marking & instruction	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.1.7: 2015
272	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Wiring, connections and supply	IS 13252(Part 1)+A1+A2/IEC 60950-1 Ed 2.0 Cl.3.0,3.1,3.2,3.3,3.4,3. 5: 2015
273	ELECTRONICS- IT EQUIPMENT	Mobile handset	Mobile Emergency Support- Call on 112	DoT 16-04/2015-AS- III/NP/67/120 dated 04th May 2016, 3GPP2 C.S0023 for CDMA2000, 3GPP TS 22.101 & TS 24.008 for GSM/UMTS/LTE: 2015
274	ELECTRONICS- IT EQUIPMENT	Mobile handset and tablet	Mobile device- Non Zero IMEI/MEID/ESN	G.S.R. No. 436(E) dated 22-04-2016: 2016
275	ELECTRONICS- IT EQUIPMENT	Mobile handset - Feature Phone	Mobile Emergency Support- Panic Button	G.S.R No. 436(E) dated 22-04-2016, 3GPP TS 22.101 for GSM/UMTS/LTE, 3GPP2C.S0023 for CDMA: 2016
276	ELECTRONICS- IT EQUIPMENT	Mobile handset- Smart Phone	Mobile Emergency Support- Panic Button	G.S.R. No. 436(E) dated 22-04-2016: 2016
277	ELECTRONICS- IT EQUIPMENT	Mobile handset -smart phone	Mobile Emergency Support -GPS Location	G.S.R No.1441(E) Dated 23-11: 2017
278	ELECTRONICS- IT EQUIPMENT	Mobile Phone Handsets	Marking	IS 16333 (Part 3): 2017, IS 16333 (Part 1): 2016 (Cl. 6, 6.1, 6.2): 2017
279	ELECTRONICS- IT EQUIPMENT	Mobile Phone Handsets	Sending the text.	IS 16333 (Part 3): 2017 (Cl. 6.1): 2017
280	ELECTRONICS- IT EQUIPMENT	Mobile Phone Handsets	Message Readability	IS 16333 (Part 3): 2017, (Cl. 5, 5.1, 5.2, IS 16350 : 2016 + A1: 2017 (Cl. 5, 5.1 to 5.24, Amnd 1: 2017





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
281	ELECTRONICS- IT EQUIPMENT	Mobile Phone Handsets	Inputting of text	IS 16333 (Part 3): 2017 (Cl. 4.1): 2017
282	ELECTRONICS- IT EQUIPMENT	Mobile Phone Handsets	Message readability	IS 16333 (Part 3): 2017 (Cl. 4.2): 2017
283	ELECTRONICS- MISCELLANEOUS PRODUCTS	CDMA technology Equipment	CDMA 1x spread spectrum Mobile Stations and ancillary equipment specific test	ETSI EN 301 489-25 V2.3.2 : 2005-07: 2005
284	ELECTRONICS- MISCELLANEOUS PRODUCTS	IMT-2000 CDMA technology Equipment	Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment Specific conditions test for IMT-2000 CDMA	ETSI EN 301 489-24 V1.5.1 (2010-10): 2010
285	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Designation of Centre Frequencies and frequency error	ETSI EN 302 502 Clause no. :4.1: 2017
286	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Dynamic Frequency Selection (DFS)	ETSI EN 302 502 Clause no. :4.6: 2017
287	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Receiver Spurious Emissions	ETSI EN 302 502 Clause no. :4.5: 2017
288	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Transmitter Power Control	ETSI EN 302 502 Clause no. :4.4: 2017
289	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Transmitter Power Control (TPC)	ETSI EN 302 502 Clause no. :4.2.4: 2017
290	ELECTRONICS- MISCELLANEOUS PRODUCTS	5.8 GHz fixed broadband data transmitting systems	Transmitter RF Output Power, EIRP and EIRP Spectral Density	ETSI EN 302 502 Clause no. :4.2: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
291	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	RF output power, Transmit Power Control (TPC), Power Density	ETSI EN 30 1 893 Clause No.: 4.2.3: 2017
292	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Adaptivity	ETSI EN 30 1 893 Clause No.: 4.2.7: 2017
293	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Carrier frequencies	ETSI EN 30 1 893 Clause No.: 4.2.1: 2017
294	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Dynamic Frequency Selection (DFS)	ETSI EN 30 1 893 Clause No.: 4.2.6.2: 2017
295	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Geo-location capability	ETSI EN 30 1 893 Clause No.: 4.2.10: 2017
296	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Nominal, and occupied, channel bandwidth	ETSI EN 30 1 893 Clause No.: 4.2.2: 2017
297	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Receiver Blocking	ETSI EN 30 1 893 Clause No.: 4.2.8: 2017
298	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Receiver spurious emissions	ETSI EN 30 1 893 Clause No.: 4.2.5: 2017
299	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	RF output power, Transmit Power Control (TPC), Power Density	ETSI EN 30 1 893 Clause No.: 4.2.3: 2017
300	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Transmitter unwanted emissions outside the 5 GHz RLAN bands	ETSI EN 30 1 893 Clause No.: 4.2.4.1: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
301	ELECTRONICS-MISCELLANEOUS PRODUCTS	5GHz RLAN/WLANPTP/PMP	Transmitter unwanted emissions within the 5 GHz RLAN bands	ETSI EN 30 1 893 Clause No.: 4.2.4.2: 2017
302	ELECTRONICS-MISCELLANEOUS PRODUCTS	Broadband Data Transmission Systems	Specific conditions for Broadband Data Transmission Systems;	ETSI EN 301 489-17 V3.1.1 (2017-02): 2017
303	ELECTRONICS-MISCELLANEOUS PRODUCTS	broadband low-power data communication Equipment	2.4ghz band broadband low-power data communication system	MIC Article 2-1 Item(19): 2016
304	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cellular Telephone Systems	Canada RSS-132-Operating in the Bands 824-849 MHz and 869-894 MHz specific test	RSS-132, Issue 3: January 2013: 2013
305	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Accumulated Transmit Time, Frequency occupation and Hopping sequence	ETSI EN 300 328 Clause No.0: 4.3.1.4 & 5.3.4: 2016
306	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Adaptivity	ETSI EN 300 328 Clause No.: 4.3.1.7 or 4.3.2.6 & 5.3.7: 2016
307	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Duty Cycle, Tx sequence, Tx-gap	ETSI EN 300 328 Clause No.: 4.3.1.3, 4.3.2.4 & 5.3.2: 2016
308	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Geo location Capability	ETSI EN 300 328 Clause No.: 4.3.1.13, 4.3.2.12: 2016
309	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Hopping Frequency Separation	ETSI EN 300 328 Clause No.: 4.3.1.5 & 5.3.5: 2016
310	ELECTRONICS-MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Medium utilization	ETSI EN 300 328 Clause No.: 4.3.1.6 ,4.3.2.5 & 5.3.2: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
311	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Occupied Channel bandwidth	ETSI EN 300 328 Clause No.: 4.3.1.8, 4.3.2.7 & 5.3.8: 2016
312	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Power spectral Density	ETSI EN 300 328 Clause No.: 4.3.2 & 5.3.3: 2016
313	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Receiver blocking	ETSI EN 300 328 Clause No.: 4.3.1.12, 4.3.2.11 & 5.3.7: 2016
314	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Receiver spurious Emission	ETSI EN 300 328 Clause No.: 4.3.1.11, 4.3.2.10 & 5.3.11: 2016
315	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	RF Output Power	ETSI EN 300 328 Clause No.: 4.3.1.2 & 4.3.2.2 , 5.3.2: 2016
316	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Transmitter unwanted Emission in OOB Domain	ETSI EN 300 328 Clause No.: 4.3.1.9, 4.3.2.8 & 5.3.9: 2016
317	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 2,4 GHz ISM band	Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328 Clause No.: 4.3.1.10, 4.3.2.9 & 5.3.10: 2016
318	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 5.8 GHz fixed broadband data transmitting systems	Receiver spurious emissions	ETSI EN 302 502 Clause 4.5 : 2016
319	ELECTRONICS- MISCELLANEOUS PRODUCTS	Data transmission equipment operating in the 5.8 GHz fixed broadband data transmitting systems	Transmitter unwanted emissions outside the 5725 MHz to 5875 MHz band	ETSI EN 302 502 Clause 4.3.1: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
320	ELECTRONICS-MISCELLANEOUS PRODUCTS	External Power Supply (EPS) for mobile phones	External Power Supply (EPS) for mobile phones	ETSI EN 301 489-34 V2.1.1 (2017-04): 2017
321	ELECTRONICS-MISCELLANEOUS PRODUCTS	For Radio microphone for hearing aid	For Radio microphone for hearing aid	MIC Article 2-1 Item(8): 2016
322	ELECTRONICS-MISCELLANEOUS PRODUCTS	GSM , WCDMA & 4G LTE	Transmitter Radiated Power (ERP/EIRP)	FCC Part 2, (Cl. 2.1046) FCC Part 22 Subpart H (Cl. 22.913(a)(2) FCC Part 24 Subpart E (Cl. 24.232(c) FCC Part 27 Subpart M (Cl. 27.50(d)(4), RSS-132 (Cl. 5.4), RSS-133, (Cl. 4.1/6.4), RSS-139, (Cl. 6.5): 2018
323	ELECTRONICS-MISCELLANEOUS PRODUCTS	Intentional RadiatorsUnlicensed National Information Infrastructure Devices	Conducted Emissions & Field Strength of Fundamental Emissions	FCC Part 15 Subpart C (Cl.15.225(a)(b)(c)(d)/ 15.209), RSS 210 (Cl. B6.0), RSS Gen (Cl. 8.9/8.10): 2018
324	ELECTRONICS-MISCELLANEOUS PRODUCTS	Intentional RadiatorsUnlicensed National Information Infrastructure Devices	Spurious Conducted Emissions and Restricted Bands of Operation	FCC Part 15 Subpart C (Cl. 15.209/15.205) FCC Part 15 Subpart E (Cl.15.407(b)(6)&(7)) RSS Gen, (Cl. 8.9/8.10): 2018
325	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with 2 wire analog interface	AC VOLTAGE	TEC/IR/SW/PBX-104/04/OCT-17 TEC/IR/TX/PST-01/02.MAR 2015 ETSI EN 300 001: 2015
326	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with 2 wire analog interface	DC CURRENT	TEC/IR/SW/PBX-104/04/OCT-17 TEC/IR/TX/PST-01/02.MAR 2015 ETSI EN 300 001: 2017
327	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with 2 wire analog interface	DC VOLTAGE	TEC/IR/SW/PBX-104/04/OCT-17 TEC/IR/TX/PST-01/02.MAR 2015 ETSI EN 300 001: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
328	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with 2 wire analog interface	RESISTANCE	TEC/IR/SW/PBX-104/04/OCT-17 TEC/IR/TX/PST-01/02.MAR 2015 ETSI EN 300 001/ETSI TBR-21: 2017
329	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with digital and analog interfaces	OPTICAL RUN LOSS	ITU-T G.957: 2006
330	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with digital and analog interfaces	TRANSMISSION LOSS	TEC/IR/SW/PBX-104/04/OCT-17 TEC/IR/NGS/2MB-001/03 DEC.14 ITU-T Q.552: 2017
331	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with Optical Ethernet Interfaces	Operating Wavelength	IEEE 802.3: 2018
332	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with Optical Ethernet Interfaces	Optical Output Power	IEEE 802.3 : 2018
333	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with Optical Ethernet Interfaces	Receiver Sensitivity	IEEE 802.3: 2018
334	ELECTRONICS-MISCELLANEOUS PRODUCTS	Products with SS7 signaling interface	IP PROTOCOL Addressing	RFC 791 RFC 2460, RFC 4861, RFC 4862, RFC 4443, RFC 1981 RFC 793 RFC 768 RFC 1661 RFC 2516 RFC 4349 RFC 3442 RFC 2453 RFC 2328 RFC 3261 RFC 3550 RFC 4271, 4760, 2545 TEC/IR/MGW-001/05.JAN 2015: 2015
335	ELECTRONICS-MISCELLANEOUS PRODUCTS	Radio Frequency and Telecom products	Conducted emission test on AC Power line	FCC (Part 15) Subpart C (Cl .15.207) FCC (Part 15) Subpart E (Cl. 15.407 (b)(6) RSS Gen, (Cl. 8.8): 2013



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
336	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF and Telecom products (Short Range)	Receiver spurious Emissions	ETSI EN 300 330-2 Clause 4.2.2.3: 2010
337	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF and Telecom Products (Short-Range)	Transmitter spurious and out of band emissions	ETSI EN 300 330-2 Clause 4.2.1.4: 2010
338	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Equipment's which are connected to AC mains directly or indirectly	Conducted emission test on AC Power line	FCC (Part 15) Subpart C (Cl .15.207) FCC (Part 15) Subpart E (Cl. 15.407 (b)(6) RSS Gen, (Cl. 8.8): 2018
339	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Receiver Adjacent Channel Selectivity (ACS)	EN 301 908-04 (CDMA) Clause 4.2.8: 2010
340	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Receiver In-band blocking	EN 301 908-04 (CDMA) Clause 4.2.6: 2010
341	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Receiver spurious emission in idle mode (Conducted)	1x: S0011 Clause 3.6 0R EN 301 908-04 (CDMA) Clause 4.2.5: 2010
342	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Transmitter Maximum output power	1x: S0011 Clause 4.4.5 0R EN 301 908-04 (CDMA) Clause 4.2.3 : 2010
343	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Transmitter Spectrum emissions mask	1x: S0011 Clause 4.5.1 0R EN 301 908-04 (CDMA) Clause 4.2.2: 2010
344	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for CDMA 2000	Transmitter spurious emissions in active mode (Conducted)	1x: S0011 Clause 4.5.1 0R EN 301 908-04 (CDMA) Clause 4.2.2: 2010
345	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Maximum output power	3GPP TS 36.521-1 Clause 6.2.2 0R EN 301 908-13 (LTE) Clause 4.2.2 : 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
346	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Receiver Adjacent Channel Selectivity (ACS)	3GPP TS 36.521-1 Clause 7.5 OR EN 301 908-13 (LTE) Clause 4.2.6 : 2015
347	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Receiver In-band blocking	3GPP TS 36.521-1 Clause 7.6.1 OR EN 301 908-13 (LTE) Clause 4.2.7 : 2015
348	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Receiver Reference Sensitivity level	3GPP TS 36.521-1 Clause 7.3 OR EN 301 908-13 (LTE) Clause 4.2.12 : 2016
349	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Receiver Spurious Emission	3GPP TS 36.521-1 Clause 7.9 OR EN 301 908-13 (LTE) Clause 4.2.10 : 2015
350	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	Spectrum emissions mask	3GPP TS 36.521-1 Clause 6.6.2.1 OR EN 301 908-13 (LTE) Clause 4.2.3 : 2015
351	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements for LTE/LTE-A	SPURIOUS EMISSIONS	3GPP TS 36.521-1 Clause 6.6.3.1, 6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE) Clause 4.2.4 : 2015
352	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Adjacent Channel Rejection (speech channels)	3GPP TS 51 010-1 Clause 14.5.1 OR EN 301 511 (GSM) Clause 4.2.38: 2016
353	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Frequency Error and phase error	3GPP TS 51 010-1 Clause 13.1 OR EN 301 511 (GSM) Clause 4.2.1 GPRS:3GPP TS 51 010-1 Clause 13.16.1 OR EN 301 511 (GSM) Clause 4.2.4: 2016
354	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Output RF Spectrum	3GPP TS 51 010-1 Clause 13.4 OR EN 301 511 (GSM) Clause 4.2.6 For GPRS: 3GPP TS 51 010-1 Clause 13.16.3 OR EN 301 511 (GSM) Clause 4.2.11: 2016





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
355	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	RECEIVER BLOCKING	RF Requirements of GSM/GPRS/EDGE: 2016
356	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Reference sensitivity level (speech channels)	3GPP TS 51 010-1 Clause 14.2.1 OR EN 301 511 (GSM) Clause 4.2.42: 2016
357	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Reference sensitivity level (speech channels)	3GPP TS 51 010-1 Clause 14.2.1 OR EN 301 511 (GSM) Clause 4.2.42: 2016
358	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Spurious emission (MS in idle mode)	3GPP TS 51 010-1 Clause 12.1.2 OR EN 301 511 (GSM) Clause 4.2.13 : 2016
359	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Spurious emissions (MS allocated a channel)	3GPP TS 51 010-1 Clause 12.1.1 OR EN 301 511 (GSM) Clause 4.2.12 : 2016
360	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of GSM/GPRS/EDGE	Transmitter Maximum output power	For GSM: 3GPP TS 51 010-1 Clause 13.3 OR EN 301 511 (GSM) Clause 4.2.5 For GPRS: 3GPP TS 51 010-1 Clause 13.16.2 OR EN 301 511 (GSM) Clause 4.2.10 : 2016
361	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Receiver Adjacent Channel Selectivity (ACS)	3GPP TS 34.121-1 Clause 6.4 OR EN 301 908-2 (UMTS) Clause 4.2.6 : 2016
362	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Receiver In-band blocking	3GPP TS 34.121-1 Clause 6.5.2.1 OR EN 301 908-2 (UMTS) Clause 4.2.7 : 2016
363	ELECTRONICS- MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Receiver Reference sensitivity level	3GPP TS 34.121-1 Clause 6.2 OR EN 301 908-2 (UMTS) Clause 4.2.13 : 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
364	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Receiver spurious emission	3GPP TS 34.121-1 Clause 6.8 0R EN 301 908-2 (UMTS) Clause 4.2.10 : 2016
365	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Transmitter Maximum output power	3GPP TS 34.121-1 Clause 5.2 0R EN 301 908-2 (UMTS) Clause 4.2.2 : 2016
366	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Transmitter Minimum Output Power	3GPP TS 34.121-1 Clause 5.4.3 0R EN 301 908-2 (UMTS) Clause 4.2.5: 2016
367	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Transmitter Spectrum emissions mask	3GPP TS 34.121-1 Clause 5.9 0R EN 301 908-2 (UMTS) Clause 4.2.3 : 2016
368	ELECTRONICS-MISCELLANEOUS PRODUCTS	RF Requirements of WCDMA/HSPA	Transmitter spurious emissions	3GPP TS 34.121-1 Clause 5.11 0R EN 301 908-2 (UMTS) Clause 4.2.4 : 2016
369	ELECTRONICS-MISCELLANEOUS PRODUCTS	ROUTER	General Functions / Features of Router PSTN Connectivity Data Rates Availability of service O & M Performance reporting	TEC/IR/I/TCP-001/05 MAR 14: 2014
370	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Adaptive Frequency Agility	ETSI EN 300 220-2 Clause 4.5.4: 2018
371	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Clear channel assessment threshold	ETSI EN 300 220-2 Clause 4.5.2: 2018
372	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Operating frequency	ETSI EN 300 220-2 Clause 4.2.1: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
373	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Polite spectrum access timing parameters	ETSI EN 300 220-2 Clause 4.5.3: 2018
374	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Receiver spurious Emissions	ETSI EN 300 330-2 Clause 4.2.2.3: 2017
375	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	RX Blocking	ETSI EN 300 220-2 Clause 4.4.2: 2018
376	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	RX sensitivity	ETSI EN 300 220-2 Clause 4.4.1: 2018
377	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Transmitter spurious and out of band emissions	ETSI EN 300 330-2 Clause 4.2.1.4: 2017
378	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Adaptive power control	ETSI EN 300 220-2 Clause 4.3.9: 2018
379	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX behaviour under low voltage conditions	ETSI EN 300 220-2 Clause 4.3.8: 2018
380	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Duty cycle	ETSI EN 300 220-2 Clause 4.3.3: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
381	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX effective radiated power	ETSI EN 300 220-2 Clause 4.3.1: 2018
382	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX FHSS	ETSI EN 300 220-2 Clause 4.3.10: 2018
383	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Maximum e.r.p. spectral density	ETSI EN 300 220-2 Clause 4.3.2: 2018
384	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Occupied bandwidth	ETSI EN 300 220-2 Clause 4.3.4: 2018
385	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX out of band emissions	ETSI EN 300 220-2 Clause 4.3.5: 2018
386	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Short term behaviour	ETSI EN 300 220-2 Clause 4.3.11: 2018
387	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Transient	ETSI EN 300 220-2 Clause 4.3.6: 2018
388	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Unwanted emissions in the spurious domain	ETSI EN 300 220-2 Clause 4.2.2: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
389	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;	ETSI EN 300 220-1 V3.1.1 (2017-02), ETSI EN 300 220-2 V3.2.0 (2017-09), ETSI EN 300 220-2 V3.1.1 (2017-02): 2017
390	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Adaptive Power Control	ETSI EN 300 220-1 Clause 5.14: 2018
391	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Adjacent Channel Power	ETSI EN 300 220-1 Clause 5.12: 2018
392	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Adjacent channel selectivity	ETSI EN 300 220-1 Clause 5.16: 2018
393	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Behaviour at high wanted signal level	ETSI EN 300 220-1 Clause 5.20: 2018
394	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Blocking	ETSI EN 300 220-1 Clause 5.19: 2018
395	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Duty Cycle	ETSI EN 300 220-1 Clause 5.4: 2018
396	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Duty cycle template	ETSI EN 300 220-1 Clause 5.5: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
397	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Effective radiated power	ETSI EN 300 220-1 Clause 5.2: 2018
398	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Frequency error	ETSI EN 300 220-1 Clause 5.7: 2018
399	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Maximum effective radiated power spectral density	ETSI EN 300 220-1 Clause 5.3: 2018
400	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Occupied Bandwidth	ETSI EN 300 220-1 Clause 5.6: 2018
401	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Operating frequency	ETSI EN 300 220-1 Clause 5.1: 2017
402	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz	Polite spectrum access	ETSI EN 300 220-1 Clause 5.21: 2018
403	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Receiver saturation at Adjacent Channel	ETSI EN 300 220-1 Clause 5.17: 2018
404	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	RX sensitivity level	ETSI EN 300 220-1 Clause 5.15: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
405	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Spurious response rejection	ETSI EN 300 220-1 Clause 5.18: 2018
406	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Transient Power	ETSI EN 300 220-1 Clause 5.11: 2018
407	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	TX behaviour under Low Voltage Conditions	ETSI EN 300 220-1 Clause 5.13: 2018
408	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Tx Out of band emission	ETSI EN 300 220-1 Clause 5.8: 2018
409	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Unwanted emission in radiated spurious domain	ETSI EN 300 220-1 Clause 5.9: 2018
410	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Unwanted emissions for a TX mode	ETSI EN 300 220-1 Clause 5.10: 2018
411	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Adjacent channel selectivity	ETSI EN 300 330 Clause 4.4.3: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
412	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Modulation bandwidth	ETSI EN 300 330 Clause 4.3.3: 2017
413	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Operating frequency ranges	ETSI EN 300 330 Clause 4.3.2: 2017
414	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Permitted range of operating frequencies	ETSI EN 300 330 Clause 4.3.1: 2017
415	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Receiver blocking or desensitization	ETSI EN 300 330 Clause 4.4.4: 2017





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
416	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Receiver spurious emissions	ETSI EN 300 330 Clause 4.4.2: 2017
417	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter conducted spurious emissions	ETSI EN 300 330 Clause 4.3.7: 2017
418	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter Frequency stability	ETSI EN 300 330 Clause 4.3.10: 2017
419	ELECTRONICS- MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter H-field requirements	ETSI EN 300 330 Clause 4.3.4: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
420	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter radiated E-field	ETSI EN 300 330 Clause 4.3.6: 2017
421	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter radiated spurious domain emission limits < 30 MHz	ETSI EN 300 330 Clause 4.3.8: 2017
422	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter radiated spurious domain emission limits > 30 MHz	ETSI EN 300 330 Clause 4.3.9: 2017
423	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz;	Transmitter RF carrier current	ETSI EN 300 330 Clause 4.3.5: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
424	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range devices in the range 1GHz to 40GHz	Spurious Radiations	ETSI EN 300 440-2 Clause 4.2.2.3: 2017
425	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range devices in the range 1GHz to 40GHz	Unwanted emissions in the spurious domain	ETSI EN 300 440-2 Clause 4.2.1.3: 2017
426	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices in the range 25 MHz to 1 GHz	Effective Radiated Power	ETSI EN 300 220-2 : 2018
427	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices in the range 25 MHz to 1 GHz	Receiver spuriousRadiation	ETSI EN 300 220-2 Clause 4.3.7: 2018
428	ELECTRONICS-MISCELLANEOUS PRODUCTS	Short Range Devices in the range 25 MHz to 1 GHz	Unwanted emissions inthe spurious domain	ETSI EN 300 220-2 Clause 4.2.1.8: 2018
429	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Solid State Inverters Run From Storage Batteries-Specification	stability	Cl. 7.2 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
430	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Solid State Inverters Run From Storage Batteries-Specification	enclosure	Cl. 7.1 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
431	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	Abnormal operating and fault conditions	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 8.3, 8.3.1, 8.3.2, 8.3.3): 2014
432	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	battery location	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 7.6, 7.6.1 to 7.6.8): 2014
433	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	construction details	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 7.4, 7.4.1, 7.4.2, 7.4.3, 7.4.4.): 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
434	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	General requirements and simulated abnormal conditions	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 8.0): 2014
435	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	Guidance on protection against ingress of water and foreign objects (see IEC 60529	IS 16242 (P-1) 2014 IEC 62040-1: 2008 Annexure H: 2014
436	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	physical requirements	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 7, 7.1): 2014
437	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	reference load	IS 16242 (P-1) 2014 IEC 62040-1: 2008 Annexure L: 2014
438	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible power system (UPS)	Ventilation of battery compartments	IS 16242 (P-1) 2014 IEC 62040-1: 2008 : 2014
439	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Abnormal operation and fault conditions	Cl. 8.3 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
440	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	AC and DC power isolation	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.4, 5.4.1, 5.4.2): 2017
441	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	battery location	Cl. 7.6 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
442	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clearance, creepage distance and distance through insulation	Cl. 5.7 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
443	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clearance, creepage distance and distance through insulation	Cl. 5.7 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017



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444	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clearance, creepage distance and distance through insulation	Cl. 5.7 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
445	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	components ( only Visual)	Cl. 4.5 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
446	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	components Visual	IS 16242 (part 1) : 2014 / IEC 62040 1 : 2008 (Cl. 4.5): 2017
447	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	connection to power	Cl. 6.2 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
448	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Connection to telecommunication networks	Cl. 9 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
449	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	construction details	Cl. 7.4 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
450	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	electric strength	Cl. 8.2 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
451	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Electrical requirements and simulated abnormal condition	Cl. 8 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
452	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Insulation Resistance Test	Cl. 7.7, IS 13314 IEC 62040-1:2017 IEC 62477-1: 2017
453	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Marking and Instruction	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 4.7, 4.7.1, 4.7.2, 4.7.3, 4.7.3.1, 4.7.3.2, 4.7.3.3, 4.7.3.4, 4.7.3.5, 4.7.4 to 4.7.21): 2017



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED, PLOT NO 174, UDYOG VIHAR, PHASE 4, SECTOR 18, GURGAON, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
454	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	marking and instruction	Cl. 4.7 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
455	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	mechanical strength	Cl. 7.3 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
456	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	No-load test	Cl. 7.8, IS 13314 IEC 62040-1:2017 IEC 62477-1 BEE schedule 17: 2017
457	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Output test. Power factor/ Efficiency/Frequency	Cl. 7.9, 7.9.1, 7.9.2, 7.9.3, 7.9.4 IS 13314 IEC 62040-1:2017 IEC 62477-1 BEE schedule 17: 2017
458	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Over current and earth fault protection	IS 16242 (P-1) 2014 IEC 62040-1: (Cl. 5.5, 5.5.1, 5.5.2, 5.5.3, 5.5.3.1, 5.5.3.2, 5.5.3.3): 2017
459	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Power Interface	Cl. 4.6 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
460	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Power Interface	Cl. 4.6 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
461	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Power Interface	Cl. 4.6 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
462	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock & hazards	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl.5, 5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5: 2017
463	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock and energy hazards	Cl. 5.1 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
464	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock and energy hazards	Cl. 5.1 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
465	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock and energy hazards	Cl. 5.1 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
466	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock and energy hazards	Cl. 5.1 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
467	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection of personal – safety interlocks	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.6, 5.6.1, 5.6.2, 5.6.2.1 to 5.6.2.8): 2017
468	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection of personnel-Safety interlocks	Cl. 5.6 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
469	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective earthing and bonding	Cl. 5.3 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
470	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective earthing and bonding	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.3, 5.3.1, 5.3.2, 5.3.3): 2017
471	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective earthing and bonding	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.3, 5.3.1, 5.3.2, 5.3.3): 2014
472	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuit	Cl. 5.2 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
473	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuit	Cl. 5.2 IS 16242 (Part 1) IEC 62040-1:IEC 62477-1: 2017



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
474	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuit	Cl. 5.2 IS 16242 (Part 1) IEC 62040-1:IEC 62477-1: 2017
475	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuit	Cl. 5.2 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
476	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuits	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.2, 5.2.1,5.2.2, 5.2.3, 5.2.4, 5.2.5): 2017
477	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Requirements for auxiliary circuits	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 5.2, 5.2.1,5.2.2, 5.2.3, 5.2.4, 5.2.5): 2017
478	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Resistance to fire	IS 16242 Cl. 7.5: 2017
479	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Resistance to fire	Cl. 7.5 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
480	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Resistance to fire	Cl. 7.5 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017
481	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	temperature rise	Cl. 7.7 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
482	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Wiring connections and supply	Cl. 6 IS 16242 (Part 1) IEC 62040-1:IEC 62477-1: 2017
483	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Wiring terminal for external power conductor	Cl. 6.3 IS 16242 (Part 1) IEC 62040-1: IEC 62477-1: 2017





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
484	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Wiring, connections and supply	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl. 6, 6.1, 6.1.1, 6.1.2, 6.2, 6.2.1, 6.2.2, 6.3): 2017
485	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Abnormal operation and fault conditions	Cl. 8.3 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
486	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	AC and d.c. power isolation	Cl. 5.4 IS 16242 (Part 1) IEC 62040-1:2017 IEC 62477-1: 2017
487	ELECTRONICS-POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection against electric shock & hazards	IS 16242 (P-1) 2014 IEC 62040-1: 2008 (Cl.5, 5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5): 2017